

第三十八届中国控制会议

The 38th Chinese Control Conference

程序册

Final Program

主办单位

中国自动化学会控制理论专业委员会

中国自动化学会

中国系统工程学会

承办单位

广东工业大学

Sponsoring Organizations

Technical Committee on Control Theory, Chinese Association of Automation

Chinese Association of Automation

Systems Engineering Society of China

Guangdong University of Technology

2019 年 7 月 27-30 日，中国 · 广州

July 27-30, 2019, Guangzhou, China

Proceedings of CCC2019

IEEE Catalog Number: CFP1940A-USB

ISBN: 978-988-15639-6-5

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欢迎辞 (Welcome Address)

中国控制会议是由中国自动化学会控制理论专业委员会发起的系列学术年会，自 1979 年至今已举办了 37 届，现已发展成为国际控制领域具有重要影响力的系列学术会议之一。该会旨在为系统控制领域的专家、学者、工程技术人员及研究生提供一个学术交流的机会，以推动系统控制科学的学科发展和控制技术的实际应用。

第 38 届中国控制会议（CCC2019）于 2019 年 7 月 27-30 日在广州举行。在此，我们谨代表会议程序委员会对所有投稿作者及参会人员表示最衷心的感谢与最热烈的欢迎！

本届会议由中国自动化学会控制理论专业委员会、中国自动化学会、中国系统工程学会主办，广东工业大学承办，并得到中国科学院数学与系统科学研究院、中国工业与应用数学学会、华南理工大学、广东省自动化学会、亚洲控制学会、IEEE 控制系统协会、韩国控制、机器人与系统学会和日本仪器与控制工程师学会等国内外组织的协办。

会议共收到来自 23 个国家和地区的投稿论文 2414 篇，经严格、认真评审程序，共 1600 篇被会议录用并收入论文集，其中英文论文占 96%。

CCC2019 会议语言为中文和英文。本届会议安排口头报告 163 组（包括 72 个邀请组），共 967 篇论文，分 27 个会议室进行交流。会议安排张贴报告 4 组，共 633 篇论文。

我们很荣幸地邀请了 7 位国际知名学者作大会报告，他们是 Frank Allgöwer（德国斯图亚特大学），Robert R. Bitmead（美国加州大学圣地亚哥分校），管晓宏（西安交通大学），桂卫华（中南大学），Zhong-Ping Jiang（美国纽约大学），Tielong Shen（日本上智大学），Le Yi Wang（美国韦恩州立大学）。报告内容涉及系统控制理论和应用中多个领域。

香港中文大学的陈本美教授为本届会议组织了专题研讨会“控制及自动化的现在和未来”，同济大学陈杰院士、英国曼彻斯特大学 Zhengtao Ding 教授、香港中文大学黄捷教授、美国弗吉尼亚大学 Zongli Lin 教授担任主讲嘉宾。

中国地质大学（武汉）吴敏教授为本届会议组织了专题研讨会“优秀青年学者论坛——先进控制和智能系统”，邀请南京航空航天大学陈谋教授、东北大学付俊教授、哈尔滨工业大学（深圳）吴爱国教授、浙江工业大学张文安教授担任主讲嘉宾。

本届会议还组织了“智能制造前沿论坛”、“随机系统与控制论坛”、“自动化与控制教育论坛”、“空中机器人研究和应用进展论坛”等发展论坛，邀请相关领域知名专家作担任主讲嘉宾。

上海交通大学关新平教授、广东工业大学何昭水教授、清华大学贾庆山教授、广东工业大学刘德荣教授为本届会议组织了 4 场会前专题讲座，主讲人分别是香港科技大学施凌、美国佐治亚理工学院 Fumin Zhang、清华大学耿华；电子科技大学徐鹏、天津大学明东、中国科学技术大学陈勋；中国科学院数学与系统科学研究院洪奕光、南洋理工大学 Lihua Xie、清华大学游科友；香港中文大学陈本美、南京航空航天大学王彪、新加坡国立大学 Feng Lin、新加坡国立大学 Shupeng Lai。

本届会议设立“关肇直优秀论文奖”和“《中国科学》—中国控制会议张贴论文奖”，颁发“陈翰馥奖”、“TCCT 杰出贡献奖”和“IEEE CSS Beijing Chapter 青年作者奖”，旨在奖励为中国系统科学和控制科学理论与应用发展做出的杰出贡献，并且奖励优秀青年学者以推动学科高端人才培养，进一步促进中国系统科学与控制科学的发展。

在此，我们谨向所有为本届会议顺利召开做出贡献的人士致以我们最真诚的谢意！感谢审稿人及程序委员会委员对投稿论文的严谨评审！感谢组委会和志愿者提供的热情服务！感谢大会报告人、会前专题讲座主讲人和大会专题研讨会主讲人接受会议邀请，与大家一同分享他们最新的研究成果！最后，我们谨代表程序委员会衷心感谢所有投稿作者和参会人员对中国控制会议的支持，并期待本届会议给大家带来一次愉快的、富有成果的经历！

第 38 届中国控制会议欢迎您的到来！

欢迎辞 (Welcome Address)

It gives us enormous pleasure to welcome you all to Guangzhou and to the 38th Chinese Control Conference (CCC2019) on behalf of the Technical Committee of Control Theory (TCCT), Chinese Association of Automation (CAA) and the Program and Organizing Committees of CCC2019. The Chinese Control Conference (CCC) is an annual technical conference founded and sponsored by TCCT since 1979. This year marks its 38th anniversary. The CCC aims to provide a forum for scientists and engineers worldwide to report their latest research results, and to exchange ideas and experiences, for the advancement of systems & control theory and its applications.

To be held on July 27-30, 2019 in Guangzhou, China, a famous tourist city of charming scenery, CCC2019 is sponsored by the TCCT, CAA and Systems Engineering Society of China (SESC), and locally organized by Guangdong University of Technology, China. The conference is also technically co-sponsored by Academy of Mathematics and Systems Science, CAS, China Society for Industrial and Applied Mathematics (CSIAM), South China University of Technology, The Automation Society of Guangdong Province, Asian Control Association (ACA), IEEE Control Systems Society (CSS), Institute of Control, Robotics and Systems (ICROS), Korea, and The Society of Instrument and Control Engineers (SICE), Japan.

CCC2019 received a total of 2414 submissions with authors from 23 countries and regions. Based on a rigorous peer-review process, 1600 papers were accepted and included in the conference proceedings, among which 96% are in English. The program is scheduled over 163 parallel oral sessions including 72 invited sessions, and 4 poster sessions, covering new developments concerning theory, application, and education in control science and engineering. The conference languages are Chinese and English in parallel.

We are delighted to present to CCC2019 participants seven plenary sessions, delivered by internationally distinguished speakers including: Professor Frank Allgöwer (University of Stuttgart, Germany), Professor Robert R. Bitmead (University of California-San Diego, USA), Professor Xiaohong Guan (Xi'an Jiaotong University, China), Professor Weihua Gui (Central South University, China), Professor Zhong-Ping Jiang (New York University, USA), Professor Tielong Shen (Sophia University, Japan), Professor Le Yi Wang (Wayne State University, USA).

Moreover, Professor Ben M. Chen from Chinese University of Hong Kong, and Professor Min Wu from China University of Geosciences, Wuhan, organized and chair two plenary panel discussions for the conference. The panel discussion “Control and Automation: The Presence and the Future” features panelists Professor Jie Chen (Tongji University, China), Professor Zhengtao Ding (University of Manchester, U.K.), Professor Jie Huang (Chinese University of Hong Kong, China), Professor Zongli Lin (University of Virginia, USA). The panel discussion “Forum of Young Outstanding Scholars on Advanced Control and Intelligent Systems” is moderated by the panelists including Professor Mou Chen (Nanjing University of Aeronautics and Astronautics, China), Professor Jun Fu (Northeastern University, China), Professor Ai-Guo Wu (Harbin Institute of Technology, Shenzhen, China), Professor Wen-An Zhang (Zhejiang University of Technology, China).

The other four development forums “Intelligent Manufacturing Frontier”, “Stochastic Systems and Control”, “Automation and Control Education”, and “Advances in Research and Application of Aerial Robots” are organized for the conference, in which the panelists invited from the related fields will give the panel presentations.

CCC2019 also holds four pre-conference workshops organized by Professor Xinping Guan from Shanghai Jiaotong University, Professor Zhaoshui He from Guangdong University of Technology, Professor Qing-Shan Jia from Tsinghua University and Professor Derong Liu from Guangdong University of Technology. The workshop speakers are Ling Shi (Hong Kong University of Science and Technology, China), Fumin Zhang (Georgia Institute of Technology, USA), Hua Geng (Tsinghua University, China); Peng Xu (University of Electronic Science and Technology of China), Ming Dong (Tianjin University, China), Xun Chen (University of Science and Technology of China); Yiguang Hong (Academy of Mathematics and Systems Science, Chinese Academy of Sciences (CAS), China), Lihua Xie (Nanyang Technological University, Singapore), Keyou You (Tsinghua University, China); Ben M. Chen (Chinese University of Hong Kong, China), Biao Wang (Nanjing University of Aeronautics and Astronautics, China), Feng Lin (National University of Singapore, Singapore), Shupeng Lai (National University of Singapore, Singapore).

CCC2019 confers the Guan Zhao-Zhi Best Paper Award and the SCIS-CCC Poster Paper Award, and presents the Chen Han-Fu Award, the 6th TCCT Outstanding Contribution Award, and the IEEE CSS Beijing Chapter Young

Author Award in recognition of young scholars who have demonstrated excellence in their contributing papers to CCC2019, thereby further promoting the development of systems and control theory and its applications in China.

The excellence and the success of CCC2019 program would not be possible without the participation and contribution of the authors, plenary speakers, workshop and invited session organizers, the session chairs, the reviewers, and the volunteers. We sincerely thank all individuals who have contributed to CCC2019. Special thanks are extended to reviewers and the program committee members for their thorough effort, and to the organizing committee members and volunteers for their dedicated work. We would also like to express our gratitude to plenary speakers, workshop speakers, invited panelists, and all the authors and participants. It is owing to you standing at the center stage of CCC2019 to make the conference a memorable event!

We hope you enjoy the conference as well as Guangzhou.



Minyue Fu

Jian Sun

Program Committee Chairmen, the 38th Chinese Control Conference

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 中国系统工程学会
 承办单位：广东工业大学
 协办单位：中国科学院数学与系统科学研究院
 中国工业与应用数学学会
 华南理工大学
 广东省自动化学会
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The 38th Chinese Control Conference

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重要信息 (Important Information)

- 会议时间: 2019年7月27日–30日
Time: July 27–30, 2019
- 会议地点: 广州白云国际会议中心
Venue: Guangzhou Baiyun International Convention Center (BYICC)
- 会议日程: 2019年7月28日–30日学术报告
Agenda: July 28–30, 2019, Academic lectures and discussion
- 会前专题讲座 (免费): 7月27日 (09:00-12:00,13:30-16:30) 广州白云国际会议中心
Pre-conference workshops (free): July 27 (09:00-12:00,13:30-16:30) Guangzhou Baiyun International Convention Center (BYICC)
- 会议语言: 中文和英文
Official Languages: Chinese and English

注册 (Registration)

- 报到时间: 7月27日8:00–22:00; 7月28日8:00–18:00; 7月29日8:00 – 18:00
Registration Time: July 27, 8:00–22:00; July 28, 8:00–18:00; July 29, 8:00–18:00
- 报到地点: 广州白云国际会议中心
Registration Desk: Guangzhou Baiyun International Convention Center
7月28、29日晚间及以后到达的代表请与会务组联系
联系人: 李攀硕 (18022395300), 王哲男 (020-39322470)
Remark: Out of registration time, please contact the Conference Administrative Office
Staff: Panshuo Li (+86-18022395300), Zhe'nan Wang (+86-20-39322470)

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交通和会场位置 (Transportation and Venue Location)

交通线路

1. 从广州白云国际机场（1号/2号航站楼）到广州白云国际会议中心

路线 1：地铁（★推荐方式）

路线：(1) 从机场南（1号航站楼）地铁站，乘坐地铁三号线（北延段）（坐4站）到地铁嘉禾望岗站，转乘地铁二号线（坐4站）到地铁白云文化广场站B出入口下，步行591米即可抵达目的地。
(约39分钟)

(2) 从机场北（2号航站楼）地铁站（B口），乘坐地铁3号线（北延段）（坐5站）到地铁嘉禾望岗站，转乘地铁二号线（坐4站）到地铁白云文化广场站B出入口下，步行591米即可抵达目的地。
(约45分钟)

费用：6元

路线 2：出租车

推荐路线：途经机场高速、大广高速，路程约28.4公里，需40分钟左右。

费用：约95元

2. 从广州南站到广州白云国际会议中心

路线 1：地铁（★推荐方式）

从地铁广州南站H出入口，乘坐地铁二号线（坐19站）到地铁白云文化广场站B出入口下，步行591米即可抵达目的地。

费用：约7元

路线 2：出租车

推荐路线：途经东新高速、内环路，路程约31公里，需60分钟左右。

费用：约105元

3. 广州火车东站到广州白云国际会议中心

路线 1：地铁（★推荐方式）

路线：(1) 从地铁广州东站（G口进站），乘坐地铁三号线机场北方向（坐7站）到地铁嘉禾望岗站，转乘地铁二号线（坐4站）到地铁白云文化广场站B出入口下，步行591米即可抵达目的地。（约38分钟）

(2) 从地铁广州东站（G口进站），乘坐地铁一号线（坐7站）到公元前站，转乘地铁二号线（坐7站）到地铁白云文化广场B出入口下，步行591米即可抵达目的地。（约40分钟）

费用：5元

路线 2：出租车

推荐路线：途经林和西路、广园东路、大金钟路、白云大道南，路程约8.7公里，需30分钟左右。

费用：约40元

4. 广州火车站到广州白云国际会议中心

路线 1：地铁（★推荐方式）

路线：从广州火车站（D1口进站），乘坐地铁二号线（坐4站）到地铁白云文化广场站B出入口下，步行591米即可抵达目的地。（约23分钟）

费用：3元

路线 2：公交车

公交车站位置：广州火车站出站口步行672米即到。

路线：从广州火车站总站，乘坐529路（坐8站）到白云国际会议中心站1下，步行214米即可抵达目的地。（约45分钟）

路线 3：出租车

推荐路线：途经飞鹅路、白云大道南，路程约6.7公里，需20分钟左右。

费用：约35元

Transportations

1. Guangzhou Baiyun International Airport (Terminal 1/2) → Guangzhou Baiyun International Convention Center

Route 1: Metro (★Recommended)

Route:

(1) Get on the metro (Line 3) at Airport South (Terminal 1) Station → transfer at Jia He Wang Gang Station to Line 2 → get off the metro at Baiyun Culture Square Station (Exit B) → walk 591 m to Guangzhou Baiyun International Convention Center (approx. 39 minutes)

(2) Get on the metro (Line 3) at Airport North (Terminal 2) Station → transfer at Jia He Wang Gang Station to Line 2 → get off the metro at Baiyun Culture Square Station (Exit B) → walk 591 m to Guangzhou Baiyun International Convention Center (approx. 45 minutes)

Fare: 6 RMB

Route2: Taxi

Route: Drive along Airport Expressway, Daguang Expressway

Distance: About 28.4km **Time:** About 40 minutes

Fare: 95 RMB

2. Guangzhou South Railway Station → Guangzhou Baiyun International Convention Center

Route 1: Metro (★Recommended)

Route:

Get on the metro (Line 2) at Guangzhou South Railway Station → get off the metro at Baiyun Culture Square Station (Exit B) → walk 591 m to Guangzhou Baiyun International Convention Center (approx. 50 minutes)

Fare: 7 RMB

Route 2: Taxi

Route: Drive along Dongxin Expressway, Inner Loop

Distance: About 31km **Time:** About 60 minutes

Fare: 105 RMB

3. Guangzhou East Railway Station → Guangzhou Baiyun International Convention Center

Route 1: Metro (★Recommended)

Route:

(1) Get on the metro (Line 3) at Guangzhou East Railway Station → transfer at Jia He Wang Gang Station to Line 2 → get off the metro at Baiyun Culture Square Station (Exit B) → walk 591 m to Guangzhou Baiyun International Convention Center (approx. 38 minutes)

(2) Get on the metro (Line 1) at Guangzhou East Railway Station → transfer at Gong Yuan Qian Station to Line 2 → get off the metro at Baiyun Culture Square Station (Exit B) → walk 591 m to Guangzhou Baiyun International Convention Center (approx. 40 minutes)

Fare: 5 RMB

Route 2: Taxi

Route: Drive along Linhexi Road, East Guangyuan Road, Da Jinzhong Road and Baiyun South Avenue

Distance: About 8.7 km **Time:** About 30 minutes

Fare: About 40 RMB

4. Guangzhou Railway Station → Guangzhou Baiyun International Convention Center

Route 1: Metro (★Recommended)

Route:

Get on the metro (Line 2) at Guangzhou Railway Station → get off the metro at Baiyun Culture Square Station (Exit B) → walk 591 m to Guangzhou Baiyun International Convention Center (approx. 23 minutes)

Fare: 3 RMB

Route 2: Bus

Bus Stop Location:

It is 672 meters away from Guangzhou Railway Station.

Route:

get on the bus 529 at Guangzhou Railway Station → get off the bus at Baiyun International Convention Center Station → walk 214 m to Guangzhou Baiyun International Convention Center (approx. 45 minutes)

Route 3: Taxi

Route: Drive along Feier Road, Baiyun South Avenue

Distance: About 6.7 km **Time:** About 20 minutes

Fare: About 35 RMB

广州白云国际会议中心地铁交通路线图

Metro Route Map for Guangzhou Baiyun International Convention Center



会议中心平面图 (Conference Center Floor Plan)

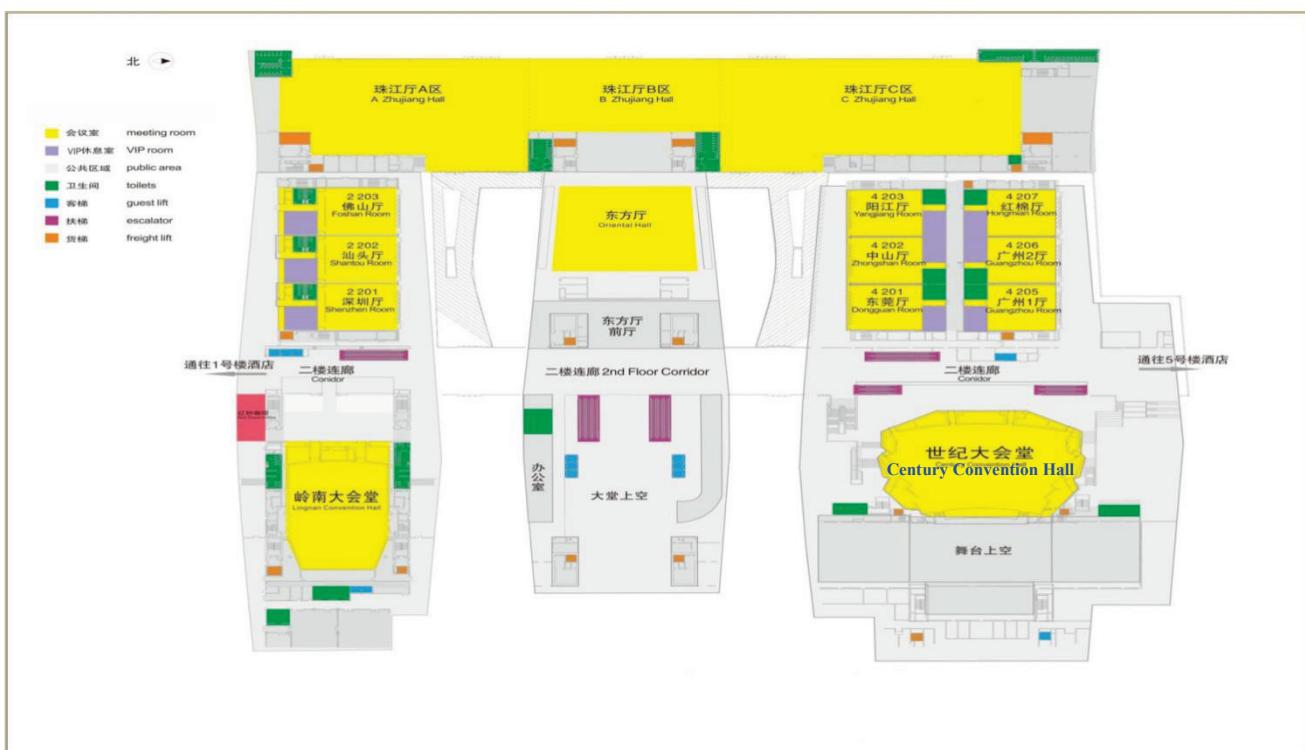


Block 1 1号楼	Block 2 2号楼	Block 3 3号楼	Block 4 3号楼	Block 4 4号楼	Block 5 5号楼
<p>1F</p> <p>清和厅 大堂吧 前台接待处 商务中心 商场 ATM机</p> <p>2F</p> <p>六和馆全日制餐厅 美发厅</p> <p>3F-12F</p> <p>岭南东方酒店客房 康体中心 (5F)</p>	<p>1F</p> <p>2101 (羊城厅) 2102 (茂名厅) 2103 (揭阳厅) 2105 (梅州厅) 花城厅 (A区)</p> <p>2F</p> <p>岭南大会堂 2201 (深圳厅) 2202 (汕头厅) 2203 (佛山厅) 珠江厅 (A区)</p> <p>3F</p> <p>岭南大会堂 2301 (江门厅) 2302 (湛江厅) 乒乓球馆 羽毛球馆</p> <p>4F</p> <p>广东大会堂</p>	<p>1F</p> <p>一站式服务中心 大堂 新闻发布厅 花城厅 (B区)</p> <p>2F</p> <p>东方厅 珠江厅 (B区)</p> <p>3F</p> <p>3301会议室 3302会议室 3303会议室 3305会议室 3306会议室 3307会议室 3308会议室 3309会议室 3310会议室 3311会议室 3312会议室 3313会议室 3315会议室 3316会议室</p>	<p>4F</p> <p>3401会议室 3402会议室 3403会议室 3405会议室 3406会议室 3407会议室 3408会议室 3409会议室 3410会议室 3411会议室 3412会议室 3413会议室 3415会议室 3416会议室 3417会议室 3418会议室</p> <p>5F</p> <p>1号影视厅 2号影视厅 多媒体信息技术会议厅 1号国际会议厅 2号国际会议厅</p>	<p>1F</p> <p>世纪大会堂 越秀华堂 4101 (云浮厅) 4102 (肇庆厅) 4103 (清远厅) 花城厅 (C区)</p> <p>2F</p> <p>世纪大会堂 4201 (东莞厅) 4202 (中山厅) 4203 (阳江厅) 4205 (广州1厅) 4206 (广州2厅) 4207 (红棉厅) 珠江厅 (C区)</p> <p>3F</p> <p>世纪大会堂 4301 (潮州厅) 4302 (珠海厅) 4303 (韶关厅) 4305 (河源厅) 4306 (惠州厅) 4307 (汕尾厅)</p>	<p>1F</p> <p>餐厅 前台接待处 商场</p> <p>2F</p> <p>岭馆 辣轩</p> <p>3F-11F</p> <p>岭南东方酒店客房</p>

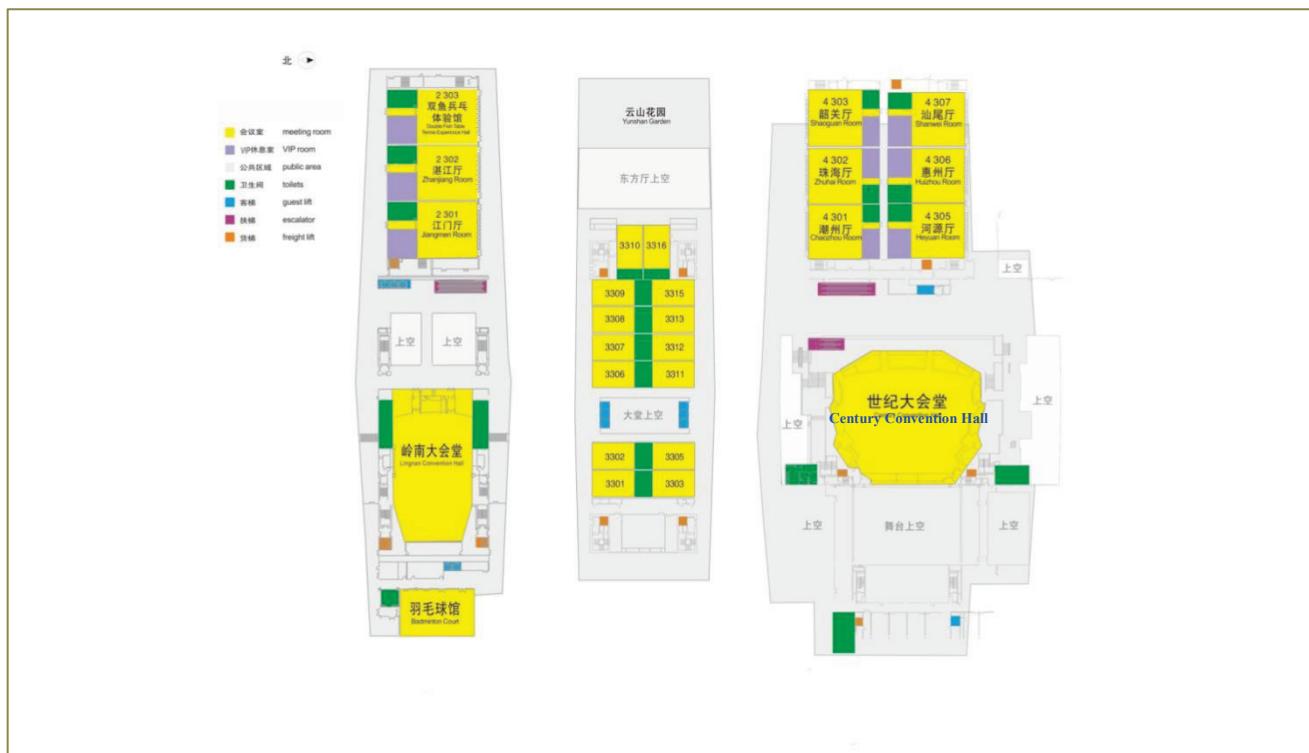
广州白云国际会议中心引导图
Guide Map of the Guangzhou Baiyun International Convention Center



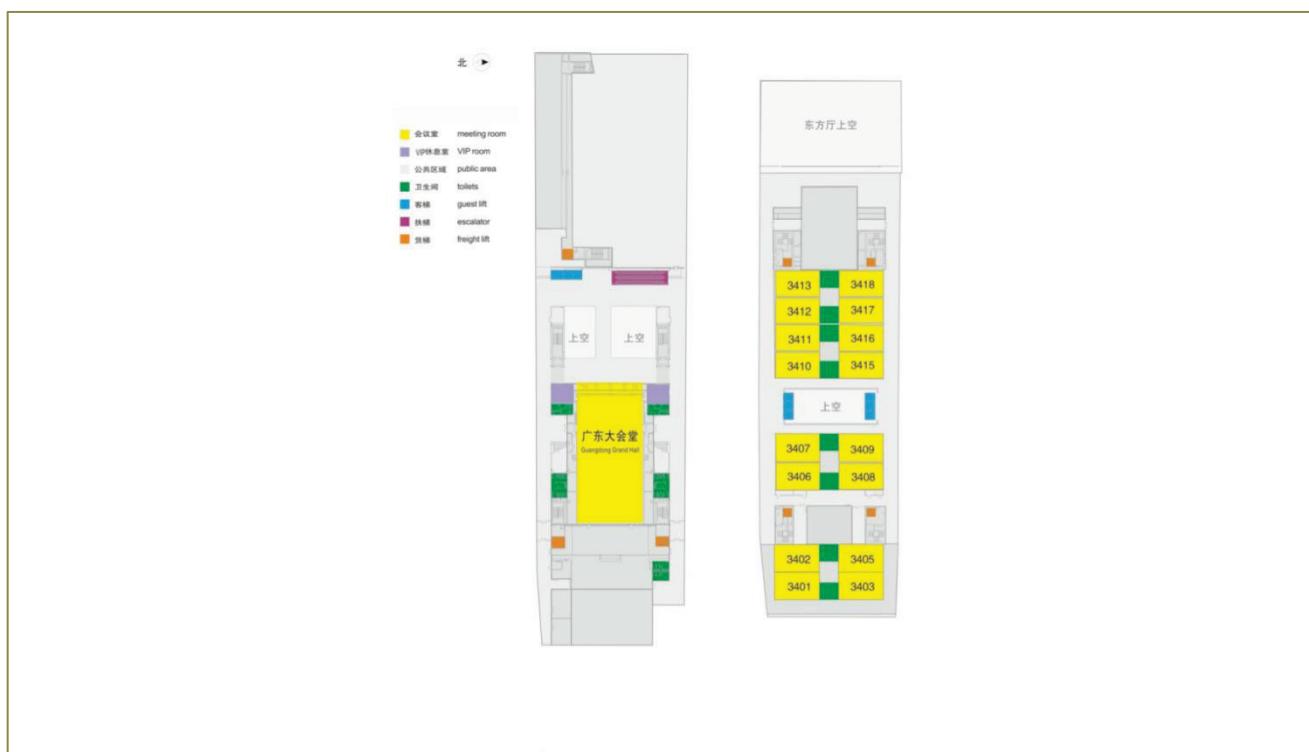
广州白云国际会议中心一层平面图
Floorplan of Level 1
The Guangzhou Baiyun International Convention Center



广州白云国际会议中心二层平面图
Floorplan of Level 2
The Guangzhou Baiyun International Convention Center



广州白云国际会议中心三层平面图
Floorplan of Level 3
The Guangzhou Baiyun International Convention Center



广州白云国际会议中心四层平面图
Floorplan of Level 4
The Guangzhou Baiyun International Convention Center



广州白云国际会议中心及附近酒店
Guangzhou Baiyun International Convention Center and the hotels nearby

口头报告与张贴报告要求 (Instruction for Oral and Poster Presentations)

口头报告 (Oral Presentation)

- 每篇论文报告时间为20分钟（包含讨论）；
Oral Presentation Time: 20 minutes (including discussion);
- 请报告人在分组报告开始前10分钟到分组主席处报到并将报告文件拷入计算机；
Each speaker is required to meet his/her session chairs in the corresponding session rooms 10 minutes before the session starts and copy the slides to the computer;
- 会议提供计算机（装有Microsoft Windows和Microsoft PowerPoint）及投影设备。
Each session room is equipped with a projector and a PC (with Microsoft Windows and Microsoft Power-Point). Please make sure that your files are compatible and readable with our operation system by using commonly used fonts and symbols.

张贴报告 (Poster Presentation)

- 会议为张贴论文提供LaTeX和Word制作模板（任选一种）；会议现场为每篇论文提供一块标准展板展板尺寸为2.5米(高)×1米(宽)；张贴论文打印尺寸为1.2米(高)×0.8米(宽)或直接A0尺寸（请自己制作）。张贴论文要求内容简洁，字迹清晰，版面可进行一定的艺术加工。字迹至少应在1米外清晰可见。张贴论文可用双面胶或透明胶粘贴到展板上，届时会有工作人员为代提供张贴所需工具并协助代表张贴；
The conference will provide the proposed design template of LaTeX and Word (choose by yourself) as well as the poster design prospectus. Please make and post your paper according to the prospectus. The conference will provide an exhibition board (width 1m, height 2.5m) for each poster paper. The poster print size is 1.2m(H)×0.8m(W) (Please make by yourself). The boards will be arranged in order of the paper in the final program. Tape and other materials will be provided on site, and volunteer-assistants will give necessary help. Posters are required to be condensed and attractive. The characters should be large enough so that they are visible from 1 meter apart.
- 本届会议设立“《中国科学》—中国控制会议张贴论文奖”，具体条例请见控制理论专业委员会网站和中国控制会议网站：<http://tcct.amss.ac.cn/>, <http://www.ccc2019.cn/>;
The regulations for the SCIS-CCC Poster Paper Award can be found at TCCT website: <http://tcct.amss.ac.cn/>, or CCC2019 website: <http://www.ccc2019.cn/en/>;
- 论文张贴期间，论文作者应在自己所贴论文前向前来观看的代表介绍，交流。届时，评奖委员会的成员会前来观看张贴论文。未在指定时间地点张贴论文，或未在自己所贴论文前与大家交流者视为缺席会议（No Show）。
During your poster session, the author should stay by your poster paper to explain and discuss your paper with visiting colleagues. The members of the Evaluation Committee of CCC2019 Poster Award will also be there to inspect poster papers. The authors, who do not poster their papers at their poster sessions and/or do not stay by their papers, will be considered as “No Show”.

大会报告 (Plenary Lectures)

Plenary Lecture 1

7月28日09:00-10:00
4号楼二楼世纪大会堂

July 28, 09:00-10:00
Century Convention Hall, 2nd Floor, Block 4

Robert R. Bitmead

University of California-San Diego, USA

Conundrums in Everyday Stochastic Control: the Excitation Price of Performance

Chair: Lei Guo (Academy of Mathematics and Systems Science, CAS)

Abstract: In all but fully known linear problems, there is a tension or ‘duality’ in stochastic optimal control between the competing duties of the control signal to regulate the plant system and to augment the observability of the state. This has been recognized at least since Fel'dbaum's work of the early 1960s, where the problems were defined but not solved; they are computationally intractable because they require propagation of the Bayesian filter and solution of the Stochastic Dynamic Programming Equation. The origin and nature of the dual optimal control problem will be examined before moving on to present two very widely implemented real-world examples of suboptimal solutions in telecommunications: mobile wireless power control and equalization, and TCP/IP computer congestion management. In each case, the resources devoted to excitation are surprisingly significant but seemingly unavoidable. The latter part of the presentation will pose questions concerning how these ideas extend to adaptation and learning in autonomous systems where, at least for robotics, the fundamental aspects are preserved in the exploration-exploitation tradeoff. The questions posed for safety are challenging, to say the least.



Robert R. Bitmead occupies the Cymer Corporation Endowed Chair in Mechanical & Aerospace Engineering at the University of California, San Diego. He holds degrees in Applied Mathematics and Electrical Engineering from Sydney University and Newcastle University, both in Australia. He has held faculty positions at the Australian National University and James Cook University of North Queensland. He is a control theorist with a long experience in control applications in many industrial sectors. His theoretical work is strongly informed and guided by these applications. He was the recipient of the 2014 ASME Rufus Oldenburger Medal and of the 2015 IEEE Controls Systems Transition to Practice Award. Bob is President of the IEEE Control Systems Society for 2019. He was a member of the IFAC Council from 1996 to 2002 and is Editor-in-Chief of the *IFAC Journal of Systems & Control*. He is Fellow of IEEE, IFAC and the Australian Academy of Technological Sciences and Engineering. He brews his own beer and is an accredited and active Australian Rules Football umpire.

Plenary Lecture 2

7月28日10:20-11:20
4号楼二楼世纪大会堂

July 28, 10:20-11:20
Century Convention Hall, 2nd Floor, Block 4

Weihua Gui

Central South University, China

High-performance Detection Technology and Application

Chair: Xinpeng Guan (Shanghai Jiao Tong University, China)

Abstract: High-performance detection technology is a composite technology that integrates various disciplines and techniques, such as automation, electronics, computer, control engineering, information processing, machinery, etc., and it is the source of information and data acquisition in the manufacturing process and is of great significance to promote industrial upgrading and implement the manufacturing power strategy. To this purpose, this report firstly analyzes the status-of-the-art and development trend of detection technology, then takes blast furnace as an example, the high performance detection method, technology and application are described, including blast furnace three-dimensional surface shape detection of blast furnace based on high-temperature industrial endoscope, molten iron temperature and flow rate detection based on machine vision. Finally, following the trend of intelligent manufacturing, some thoughts and suggestions on the research of high-performance detection technology are given.



Weihua Gui, academician of Chinese Academy of Engineering, professor and doctoral supervisor of Central South University. He graduated from Central South Institute of Mining and Metallurgy in 1981 with the master's degree in industrial automation. He is currently the director of the Academic Committee of Central South University, the academic leader of the Innovation Research Group of the National Natural Science Foundation, the director of the Engineering Research Center of the Ministry of Education of Nonferrous Metallurgy Automation, the vice chairman of the China Automation Society, and the vice chairman of the China Nonferrous Metals Society. He has long been committed to complex metallurgical production process control theory, technology and engineering application research, breaking through the key technical problems of automation of non-ferrous metal smelting and aluminum processing processes, such as copper, aluminum, lead and zinc, and the application effect is remarkable. He won 3 second prizes for national scientific and technological progress, 8 first prizes at provincial and ministerial level. He was awarded the Ho Leung Ho Lee Foundation Science and Technology Progress Award in 2009 and Hunan Guangzhao Technology Award in 2012. He has won the "National Model Teacher", "National Excellent Teacher", "National Excellent Science and Technology Worker", "National Nonferrous Metals Industry Labor Model", "China Nonferrous Metals Industry Excellent Science and Technology Worker", "China Process Control Lifetime Achievement Award", "China Process Control Technology Contribution Award", "Yang Jiayu Technology Award" and other honorary titles.

Plenary Lecture 3

7月28日11:20-12:20
4号楼二楼世纪大会堂

July 28, 11:20-12:20
Century Convention Hall, 2nd Floor, Block 4

Le Yi Wang

Wayne State University, USA

Integration of Control, Communications, and Computing in Networked Systems

Chair: Ji-Feng Zhang (Academy of Mathematics and Systems Science, CAS)

Abstract: Modern systems are dominantly characterized by interconnected network systems. They are exemplified by autonomous vehicles, smart grids, smart cities, gene networks, social networks, energy and material flow networks, to name just a few. Management of such network systems encounters fundamental issues of information, uncertainty, and complexity, and demands integration of control, communications, and computing.

In this presentation, we will highlight some key motivations and critical complexity issues in networked systems, discuss historical pursuit of integrated control, communications, and computing, and explain how communication uncertainties introduce new issues in control design and stimulate new control frameworks and methodologies. We will summarize some recent efforts and advances in developing new control frameworks to accommodate data complexity, time complexity, group complexity, and spatial complexity in managing network systems, as well as highlight some methods to handle communication-induced asynchronous operation, switching network topology, and random delays.



Le Yi Wang received the Ph.D. degree in electrical engineering from McGill University, Montreal, Canada, in 1990. Since 1990, he has been with Wayne State University, Detroit, Michigan, where he is currently a professor in the Department of Electrical and Computer Engineering. His research interests are in the areas of complexity and information, system identification, robust control, H-infinity optimization, time-varying systems, adaptive systems, hybrid and nonlinear systems, information processing and learning, as well as medical, automotive, communications, power systems, and computer applications of control methodologies. He was a keynote speaker in several international conferences. He serves on the IFAC Technical Committee on Modeling, Identification and Signal Processing. He was an Associate Editor of the *IEEE Transactions on Automatic Control* and several other journals. He was a Visiting Faculty at University of Michigan in 1996, Visiting Faculty Fellow at University of Western Sydney, Australia, in 2009 and 2013, and Visiting Faculty at Vienna University of Technology, Austria, in 2016. He is an Eminent Engineer in Tau Beta Pi, a member of Academy of Scholars at Wayne State University, and a Fellow of IEEE.

Plenary Lecture 4

7月29日08:30-09:30
4号楼二楼世纪大会堂

July 29, 08:30-09:30
Century Convention Hall, 2nd Floor, Block 4

Frank Allgöwer

University of Stuttgart, Germany

From Stabilizing to Economic Model Predictive Control: A Paradigm Shift Towards Increased Control Performance

Chair: Lihua Xie (Nanyang Technological University, Singapore)

Abstract: During the past decades model predictive control (MPC) has become a preferred control strategy for the control of a large number of industrial control problems from distillation control to autonomous driving. Computational issues, application aspects and systems theoretic properties of MPC (like stability and robustness) are rather well understood by now and the theory is well developed even for nonlinear systems. In standard MPC formulations, the considered control objective is typically the stabilization of some (given) setpoint or trajectory to be tracked. In contrast, the main focus in so-called economic MPC is on closed-loop performance where the cost to be optimized is related to some economic objective. This shift in the typical control task to be solved is of interest for many industrial applications. This concerns for example robot control, autonomous mobility, or industrial production processes in the framework of Industry 4.0.

In this presentation we will first give an introduction to and an overview over the general field of model predictive control. An account of the development of model predictive control theory for nonlinear systems will be given focusing on requirements for the stability of the nonlinear closed loop. Then economic MPC will be introduced and a tutorial overview of the system theoretic aspects of economic MPC will be presented highlighting the advantages for various application scenarios. Finally new results for distributed economic model predictive control for the control of networks of systems are presented.



Frank Allgöwer is director of the Institute for Systems Theory and Automatic Control and professor in Mechanical Engineering at the University of Stuttgart in Germany. Frank's main interests in research and teaching are in the area of systems and control with a current emphasis on the development of new methods for optimization-based control, networks of systems, data-based control and systems biology. Frank received several recognitions for his work including the IFAC Outstanding Service Award, the IEEE CSS Distinguished Member Award, the State Teaching Award of the German state of Baden-Württemberg, and the Leibniz Prize of the Deutsche Forschungsgemeinschaft.

Frank is President of the International Federation of Automatic Control (IFAC) for the years 2017-2020. He was Editor for the journal *Automatica* from 2001 to 2015 and is editor for the Springer Lecture Notes in Control and Information Science book series and has published over 500 scientific articles. Since 2012 Frank serves a Vice-President of the German Research Foundation (DFG).

Plenary Lecture 5

7月29日09:30-10:30
4号楼二楼世纪大会堂

July 29, 09:30-10:30
Century Convention Hall, 2nd Floor, Block 4

Xiaohong Guan

Xi'an Jiaotong University, China

Cyber-Physical Systems in Intelligence Age

Chair: Renquan Lu (Guangdong University of Technology, China)

Abstract: Networking, intelligence and merging of information and physical systems are the trend of information science and technology development. Cyber-physical systems is the basis for the new industrial revolution and energy revolution. Cyber-physical energy system (CPES) in a broader sense provides a desirable infrastructure for efficient energy production and consumption with uncertain energy resources.

This speech will focus on the structure of CPS with the role of human in systems and the intelligence needed for CPS. The requirements for CPS in the sectors of manufacturing, energy, transportation, aerospace and aeronautic engineering are introduced and analyzed. The challenges and opportunities for CPS are discussed with regards to cyber-physical modeling, intelligence design and planning, optimization and control, and integrated security.



Xiaohong Guan received his B.S. and M.S. degrees in Control Engineering from Tsinghua University, Beijing, China, in 1982 and 1985, respectively, and his Ph.D. degree in Electrical and Systems Engineering from the University of Connecticut in 1993. He was a senior consulting engineer with Pacific Gas and Electric from 1993 to 1995. He visited the Division of Engineering and Applied Science, Harvard University from Jan. 1999 to Feb. 2000. From 1985 to 1988 and since 1995 he has been with the Systems Engineering Institute at Xi'an Jiaotong University, Xi'an, China, and was appointed as the Cheung Kong Professor of Systems Engineering in 1999, and Dean of School of Electronic and Information Engineering since 2008. From 2001 he has also been with the Center for Intelligent and Networked Systems, Tsinghua University, Beijing, China, and severed the Head of Department of Automation, Tsinghua University, 2003-2008.

Professor Guan is a member of Chinese Academy of Science and IEEE Fellow. He has been serving the Editor of *IEEE Transactions on Smart Grid* since 2014. His research interests include economics and security of networked systems, optimization based planning and scheduling of electrical power and energy systems, manufacturing systems, etc., and cyber-physical systems including smart grid, sensor networks, etc.

Plenary Lecture 6

7月30日08:30-09:30
4号楼二楼世纪大会堂

July 30, 08:30-09:30
Century Convention Hall, 2nd Floor, Block 4

Tielong Shen

Sophia University, Japan

Automotive Powertrain Control: On-line Learning and Optimization

Chair: Jie Chen (Tongji University, China)

Abstract: Efficiency is one of the most important issues in automotive powertrain control technology. For modern automotive powertrains such as electrically controller engines and electrified powertrains, on-board optimization of the control strategy in ECU is a feasible and effective way to improving the efficiency. However, the complexity in modeling and uncertainties in practice make it challenging. This talk will present results and experiences in development of automotive powertrain control technology. First, the field of powertrain control, mainly focused on the challenging issues, is briefly overviewed. Then, several case studies will be highlighted that provide solutions to the efficiency optimization by applying on-line learning and optimization techniques, mainly combustion control of IC engine, energy optimization of hybrid electric vehicles, and optimal control under the connected environment. Finally, the talk will be closed with a rough outlook on the control issues in connected EVs and power grid.



Tielong Shen is a Full Professor in control engineering at Sophia University, Tokyo, Japan. He graduated from Northeast Heavy Machinery Institute, 1982, and received his PhD degree in Mechanical Engineering from Sophia University 1992, and joined Sophia University as Assistant Professor with Tenure in April 1992, where he is currently chairing Shen Laboratory. His research interests include control theory and applications in automotive powertrain systems, power systems, and mechanical systems. In 2005, his laboratory founded transient control engine testbench and started long-term academic-industrial collaborative research on advanced engine control technology with Toyota automotive Corporation, Japan. He has served SICE, TCCT of CAA, IFAC and IEEE as Chair/vice-chair including General Chair of SICE&CCC2015, IPC Chair of IFAC AAC2016, IFAC ECoSM2018, etc. He is currently a member of the IEEE Technical Committee on Automotive Control and IFAC Technical Committee on Automotive System Control. He is currently serving as General Chair of SICE Annual Conference 2021, and General Chair of IFAC Conference on ECOSM 2021.

Plenary Lecture 7

7月30日09:30-10:30
4号楼二楼世纪大会堂

July 30, 09:30-10:30
Century Convention Hall, 2nd Floor, Block 4

Zhong-Ping Jiang

New York University, USA

Learning-based Control: A Theory based on Robust Adaptive Dynamic Programming

Chair: Minyue Fu (Guangdong University of Technology, China)

Abstract: This talk considers learning-based control design for continuous-time linear and nonlinear systems with unknown dynamics. It introduces a new design paradigm, called “Robust Adaptive Dynamic Programming (RADP)”, that is fundamentally different from traditional control theory. In the classical paradigm, controllers are often designed for a given class of dynamical control systems; it is a model-based design. In the RADP paradigm, controllers are learned online using real-time input-output data collected along the trajectories of the control system in question. An entanglement of techniques from reinforcement learning and model-based control theory is advocated to find a sequence of suboptimal controllers that will approximate the optimal solution as learning steps increase. On the one hand, this RADP paradigm overcomes the well-known “curse of dimensionality” and the “curse of modeling” associated with Bellman’s Dynamic Programming. On the other hand, rigorous stability and robustness analysis can be derived for the closed-loop system with real-time learning-based controllers. The effectiveness of RADP as a new framework for data-driven nonlinear control design is demonstrated via its applications to power systems, autonomous vehicles, and biological motor control.



Zhong-Ping Jiang received the B.Sc. degree in mathematics from the University of Wuhan, Wuhan, China, in 1988, the M.Sc. degree in statistics from the University of Paris XI, France, in 1989, and the Ph.D. degree in automatic control and mathematics from the Ecole des Mines de Paris (now, called Paris Tech-Mines), France, in 1993, under the direction of Prof. Laurent Praly.

Currently, he is a Professor of Electrical and Computer Engineering at the Tandon School of Engineering, New York University. His main research interests include stability theory, robust/adaptive/distributed nonlinear control, adaptive dynamic programming and their applications to information, mechanical and biological systems. He is coauthor of four books *Stability and Stabilization of Nonlinear Systems* (with Dr. I. Karafyllis, Springer, 2011), *Nonlinear Control of Dynamic Networks* (with Drs. T. Liu and D.J. Hill, Taylor & Francis, 2014), *Robust Adaptive Dynamic Programming* (with Y. Jiang, Wiley-IEEE Press, 2017) and *Nonlinear Control Under Information Constraints* (with T. Liu, Science Press, 2018). He also is the (co)author of 15 book chapters, over 200 published/accepted journal papers, and numerous conference papers. His work has received 19,800 citations with an h-index of 73, by Google Scholar.

Dr. Jiang is a Deputy Editor-in-Chief of the *Journal of Control and Decision* and of the *IEEE/CAA Journal of Automatica Sinica*, a Senior Editor for the *IEEE Control Systems Letters*, an Editor for the *International Journal of Robust and Nonlinear Control* and has served as an Associate Editor for several journals including *Mathematics of Control, Signals and Systems* (MCSS), *Systems & Control Letters*, *IEEE Transactions on Automatic Control*, *European Journal of Control*, and *Science China: Information Sciences*. Dr. Jiang is a recipient of the prestigious Queen Elizabeth II Fellowship Award from the Australian Research Council (1998), the CAREER Award from the U.S. National Science Foundation (2001), JSPS Invitation Fellowship from the Japan Society for the Promotion of Science (2005), the Distinguished Overseas Chinese Scholar Award from the NSF of China (2007), and the Chair Professorship by the Ministry of Education of China (2009). His recent awards include the Steve and Rosalind Hsia Best Biomedical Paper Award at the 2016 World Congress on Intelligent Control and Automation in Guilin, China, the Best Paper Award at the 2017 Asian Control Conference, Gold Coast, Australia, and the Best Paper Award on Control at the 2018 IEEE Conf. on Real-Time Computing and Robotics, Maldives.

Prof. Jiang is a Fellow of the IEEE and a Fellow of the IFAC.

大会专题研讨会 (Panel Sessions)

Panel Discussion 1

7月29日 10:50-12:20
4号楼二楼世纪大会堂

July 29, 10:50-12:20
Century Convention Hall, 2nd Floor, Block 4

Control and Automation: The Presence and the Future

控制及自动化的现在和未来

Chair: Ben M. Chen (Chinese University of Hong Kong, China)

Panelists: Jie Chen (Tongji University, China)

Zhengtao Ding (University of Manchester, U.K.)

Jie Huang (Chinese University of Hong Kong, China)

Zongli Lin (University of Virginia, USA)

Abstract: CCC2019 proudly presents the plenary panel session on Control and Automation: The Presence and the Future. We are honored to be able to invite four prominent renowned researchers and educators in the field to be the panelists. The objective of the plenary panel session is to provide an opportunity for researchers, especially youngsters, to interact with the experts in control and automation to seek their advice or debate on issues relating to control and automation research such as current status, challenges and opportunities, future perspectives, as well as how to start a career as a researcher and how to approach challenging research issues, etc. During the session, panel members will share their vast experiences and visions with audience through effective face-to-face dialogues.



Jie Chen is a Member of Chinese Academy of Engineering, IEEE Fellow, CAA Fellow, CAAI Fellow, the President of Tongji University, Director of the State Key Laboratory of Intelligent Control and Decision of Complex Systems, Chief Scientist of a National 973 Basic Research Program, Principal Investigator of an Innovative-Research-Group Program supported by the Natural Science Foundation of China (NSFC). He is a Distinguished Young Scholar awarded by the NSFC, and a Changjiang Scholar Distinguished Professor awarded by the Chinese Ministry of Education. He serves as the Vice President of the Chinese Association of Automation, and an Executive Director of the Chinese Artificial Intelligence Society. He is also the Managing Editor for the *Journal of Systems Science and Complexity*, and editorial board members and associate editors for several renowned international journals, such as *IEEE Transactions on Cybernetics*, *International Journal of Robust and Nonlinear Control*, *Science China Information Sciences*, and *Control Theory and Technology*.

Professor Chen's main research interests include multi-objective optimization and decision for complex systems, cooperative control of multi-agent systems, and constrained nonlinear control. He has authored/co-authored 4 monographs and more than 90 SCI journal papers, and holds more than 40 patents of invention. He has received the second prize of National Natural Science Award of China once, and the second prizes of National Science and Technology Progress Award of China twice. Science and Technology Award of the Ho Leung Ho Lee Foundation.



Zhengtao Ding received his B.Eng. degree from Tsinghua University, Beijing, China, and M.Sc. degree in systems and control, and the Ph.D. degree in control systems from the University of Manchester Institute of Science and Technology, Manchester, U.K. After working as a Lecturer with Ngee Ann Polytechnic, Singapore, for ten years, he joined the University of Manchester in 2003, where he is currently Professor of Control Systems with the School of Electrical and Electronic Engineering. He is the author of the book: *Nonlinear and Adaptive Control Systems* (IET, 2013) and has published over 200 research articles. His research interests include nonlinear and adaptive control theory and their applications, more recently control of networked connected dynamic systems and distributed optimization. Prof. Ding has served as an Associate Editor for the *IEEE Transactions on Automatic Control*, *IEEE Control Systems Letters*, *Transactions of the Institute of Measurement and Control*, *Control Theory and Technology*, *Mathematical Problems in Engineering*, *Unmanned Systems*, and the *International Journal of Automation and Computing*, etc. He is a member of IEEE Technical

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Committee on Nonlinear Systems and Control, IEEE Technical Committee on Intelligent Control, and IFAC Technical Committee on Adaptive and Learning Systems.



Jie Huang is now a Choh-Ming Li Professor of Mechanical and Automation Engineering, Chinese University of Hong Kong. His research interests include nonlinear control, robotics and automation, networked control, and guidance and control of flight vehicles. He has authored/coauthored three monographs and some papers. He was IFAC Fellow in 2009, and IEEE Fellow in 2005.

He studied at Fuzhou University (Diploma, 1980), Nanjing University of Science and Technology (Master, 1982), and the Johns Hopkins University (PhD, 1990), respectively.



Zongli Lin is the Ferman W. Perry Professor in the School of Engineering and Applied Science and Professor of Electrical and Computer Engineering at University of Virginia. He received his B.S. degree in mathematics and computer science from Xiamen University, Xiamen, China, in 1983, his Master of Engineering degree in automatic control from Chinese Academy of Space Technology, Beijing, China, in 1989, and his Ph.D. degree in electrical and computer engineering from Washington State University, Pullman, Washington, in 1994. His current research interests include nonlinear control, robust control, and control applications.

Professor Lin was an Associate Editor of the *IEEE Transactions on Automatic Control* (2001-2003), *IEEE/ASME Transactions on Mechatronics* (2006-2009) and *IEEE Control Systems Magazine* (2005-2012). He was elected a member of the Board of Governors of the IEEE Control Systems Society (2008-2010, 2019-2021) and chaired the IEEE Control Systems Society Technical Committee on Nonlinear Systems and Control (2013-2015). He has served on the operating committees several conferences and was the program chair of the 2018 American Control Conference. He currently serves on the editorial boards of several journals and book series, including *Automatica*, *Systems & Control Letters*, *Science China Information Sciences*, and Springer/Birkhauser book series Control Engineering. He is a Fellow of AAAS, CAA, IEEE and IFAC.

Panel Discussion 2

7月30日10:50-12:20
4号楼二楼世纪大会堂

July 30, 10:50-12:20
Century Convention Hall, 2nd Floor, Block 4

Forum of Young Outstanding Scholars on Advanced Control and Intelligent Systems

优秀青年学者论坛—先进控制和智能系统

Chair: Min Wu (China University of Geosciences, Wuhan, China)

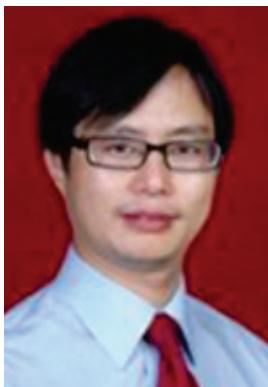
Panelists: Mou Chen (Nanjing University of Aeronautics and Astronautics, China)

Jun Fu (Northeastern University, China)

Ai-Guo Wu (Harbin Institute of Technology, Shenzhen, China)

Wen-An Zhang (Zhejiang University of Technology, China)

Abstract: The Forum invites two winners of the National Science Foundation for Distinguished Young Scholars of China (国家杰出青年科学基金) and two winners of the National Science Foundation for Excellent Young Scholars of China (国家优秀青年科学基金), who have made excellent achievements. These four young scholars will share their research experience and original perspectives. The objective of this Forum is to encourage young scientists and technologists to engage in the frontier research in advanced control and intelligent systems.



Mou Chen received his Ph.D. degree in Control Theory and Control Engineering at Nanjing University of Aeronautics and Astronautics (NUAA), Nanjing, China, 2004. He is currently a full professor in the College of Automation Engineering at NUAA, China. He is also a Distinguished Young Scholar awarded by the NSFC. He was an academic visitor in the Department of Aeronautical and Automotive Engineering at Loughborough University, UK, from November 2007 to February 2008. From June 2008 to September 2009, he was a research fellow in the Department of Electrical and Computer Engineering at National University of Singapore. He was a senior academic visitor in the School of Electrical and Electronic Engineering at University of Adelaide, AUS, from May 2014 to November 2014. He serves as Associate Editors of *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, *IEEE Access*, *Neurocomputing*, etc. He is also Young Associate Editors of *Chinese Journal of Aeronautics*, *SCIENCE CHINA Information Sciences*. His research interests include nonlinear system control, intelligent control and flight control.



Jun Fu received the Ph.D. degree in mechanical engineering from Concordia University, Montreal, Quebec, Canada, in 2009. He is a postdoctoral fellow/associate in the department of mechanical engineering, Massachusetts Institute of Technology (MIT), USA from 2010 to 2014. He is a full professor at Northeastern University, China. His current research is on switched systems, robust control, mathematical programming, and dynamic optimization. He has authored/co-authored over 70 publications which appeared in journals, conference proceedings and book chapters. He won the 2016 Young Scientist Award from Chinese Association of Automation. Currently, he is Associate Editors of *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, *IEEE Transactions on Neural Networks and Learning Systems*, *Control Engineering Practice* (IFAC), and *Journal of Industrial and Management Optimization*. He is a senior member of IEEE



Ai-Guo Wu received his Ph.D. degree in Control Science and Engineering in Harbin Institute of Technology, 2008. Currently he is a full professor in the Harbin Institute of Technology, Shenzhen. Dr. Wu was a Research Fellow with the Department of Manufacturing Engineering and Engineering Management, City University of Hong Kong from March 2009 to March 2011. He was a visiting professor with the Department of Electrical, Electronic and Computer Engineering of The University of Western Australia, Australia from July 2013 to July 2014.

His research interests include descriptor systems, conjugate product of polynomials, switched system and robust control. He has authored/coauthored one English monograph and more than 60 SCI journal papers. He received the National Natural Science Award (Second Prize) in 2015 from P. R. China, and the National Excellent Doctoral Dissertation

Award in 2011 from the Academic Degrees Committee of the State Council and the Ministry of Education of P. R. China. He was supported by the Program for New Century Excellent Talents in University in 2011, and by the National Natural Science Foundation of China for Excellent Young Scholars in 2018.

Dr. Wu is a Reviewer for *American Mathematical Review* from 2007. He serves as a Regional Editor of *Nonlinear Dynamics and Systems Theory* from 2015, and an International Subject Editor of *Applied Mathematical Modelling* from 2017. He was an Outstanding Reviewer for *IEEE Transactions on Automatic Control* in 2010.



Wen-An Zhang received the B.Eng. degree in automation and the Ph.D. degree in Control Theory and Control Engineering from Zhejiang University of Technology, China, in 2004 and 2010, respectively. He has been with Zhejiang University of Technology since 2010 where he is now a professor at Department of Automation. He was a senior research associate at Department of Manufacturing Engineering and Engineering Management, City University of Hong Kong, 2010-2011. He was awarded an Alexander von Humboldt Fellowship in 2011-2012. He is a member of the Technical Committee on Control Theory, Chinese Association of Automation and a member of the IEEE. He is an Excellent Young Scholar awarded by the NSFC, and a Changjiang Excellent Young Scholar awarded by the Chinese Ministry of Education.

His current research interests include cyber-physical systems security, multi-sensor information fusion and its applications to human-machine cooperation. He has been serving as a subject editor for Optimal Control Applications and Methods and Journal of Control and Decision (in Chinese) from 2016. He has authored/co-authored 2 monographs and more than 50 SCI journal papers, and holds 10 patents of invention.

发展论坛 (Development Forums)

Development Forum 1

7月 29 日 13:30-15:30
4号楼二楼东莞厅

July 29, 13:30-15:30
Dongguan Hall, 2nd Floor, Block 4

Intelligent Manufacturing Frontier

智能制造前沿论坛

Chair: Jian Chu (Zhejiang University, China)

Speakers: Feng Qian (East China University of Science and Technology, China)

Defang Li (SINOPEC Management Institute)

Pei Huang (e-works)

Song Liu (Alibaba Group)

Haibin Yu (SUPCON)



Feng Qian, member of Chinese Academy of Engineering, expert in the field of process control and process systems engineering. He is now the professor, PhD supervisor and vice-chancellor in East China University of Science and Technology, director of key laboratory of the Ministry of Education on advanced control and optimization technology for chemical processes, director of engineering research center of the Ministry of Education for process systems engineering, member of the judging panel of the Control Science and Engineering Discipline of the Academic Degrees Committee of the State Council, vice-chairman of China Petroleum and Chemical Automation Application Association, vice-chairman of China Instrument and Control Society, member of the 11th, 12th and 13th National Committee of the Chinese People's Political Consultative Conference.

He has been engaged in the investigation of theoretical methods and key technologies of intelligent control as well as the real-time integration optimization used in manufacturing systems of chemical process where resources and energy have been efficiently used. He innovated and developed the intelligent control and optimization operation technology, software and system of ethylene plant, which have been widely promoted and applied in the domestic ethylene industry with remarkable results. He made a breakthrough in the key technology of optimizing the operation of the terephthalic acid plant, realizing a huge energy saving of industrial equipment. He invented optimization control technology of the gasoline pipeline blending, realizing the real-time optimization of the blending process and long-term efficient operation of the system. The related results have been successfully applied in dozens of large-scale petrochemical plants, and achieved significant economic and social benefits. Besides, he has won second prizes of National Science and Technology Progress Awards four times, provincial and ministerial-level science and technology awards more than 20 times including first prizes of provincial and ministerial-level science and technology progress awards 10 times, held more than 40 national invention patents and more than 70 national computer software copyrights, received National Science Foundation for Distinguished Young Scholars, Chinese Patent Excellence Awards twice, first prizes of Shanghai Invention and Creation Awards for patent twice, He-Liang-He-Li Fund Science and Technology Innovation Award, National Invention and Entrepreneurship Award, published 3 monographs and more than 300 papers (SCI/EI). He was elected as the national talent of New Century Ten Million Talent Project, chief scientist of the National Basic Research Program of China (973 Program), Distinguished Professor of Yangtze River Scholar, Shanghai Science and Technology Elite, Model Worker of Shanghai.



Defang Li, professor-level senior engineer, State Council Special Allowance Expert. He used to be the director of information management department in SINOPEC, and is now a party secretary of SINOPEC Management Institute. He has been in charge of the 11th, 12th, and 13th informatization development planning of SINOPEC, the R&D and implementation of MES. Moreover, he organized and completed major projects such as SINOPEC ERP, centralized fund management, e-commerce, operation command of group production, intelligent pipeline, smart factory pilot and promotion, and received many provincial and ministerial level science and technology progress awards.



Pei Huang, professor-level senior engineer, adjunct professor in Huazhong University of Science and Technology. He has been the chief editor and CEO of e-works Digital Enterprise Network since March 2002. Dr. Huang is currently the deputy secretary-general of International Coalition of Intelligent Manufacturing (preparing), a member of Expert Committee for Information, Communication and Economy, the vice chairman of the Intelligent Manufacturing Committee of Chinese Association for Artificial Intelligence, the vice chairman of the Hubei Association for Artificial Intelligence, the vice chairman of Hubei Association for Mechanical Engineering, the deputy director of the China Association for Science and Technology Intelligent Manufacturing Association Intelligent Manufacturing Institute. Dr. Huang has 28 years of experience in intelligent manufacturing services, and has provided consulting services to hundreds of companies. He has won the second prize of National Science and Technology Progress Award. Dr. Huang received his PhD degree in Engineering from Huazhong University of Science and Technology in 1997. In December 2001, he received a senior management certificate from the Lally School of Management at the Rensselaer Polytechnic Institute (RPI), and has served as the head of three national 863 projects.



Song Liu, vice president of Alibaba, is mainly responsible for the strategic planning, public policy, digitalization transformation theory of Alibaba Science and Technology Plate, the construction of industry, study and research, innovation ecosystem, scientific and technical personnel training project etc.. In the past two decades, he has been focused on China's information technology, industry, and think tank for a long time, deeply involved in the trend of the internet and information industry. He is an expert in the area of digitalization transformation, and has advanced, in-depth and complex practical experience in the digitalization transformation of government and enterprise, information architecture of government and enterprise, big data and artificial intelligence, industrial internet and intelligent manufacturing, entrepreneurship and innovation etc.. As a witness to the rapid development of cloud computing in China, Song Liu has built the ecosystem of Alibaba and Alibaba Cloud in the past five years, and had in-depth discussions with hundreds of high-level officials and CEOs on the development trend of digital innovation, and given hundreds of public speeches. Song Liu also served as the vice chairman of the China Artificial Intelligence Industry Development Alliance and industrial internet consortium, and other social positions like the vice president of the Digital China Industry Alliance.



Haibin Yu, male, born in October 1971, graduated from Zhejiang University, a member of the Communist Party of China, Ph.D. of Control Theory and Engineering. He is currently the vice president of SUPCON, and the managing director of Zhejiang Central Control Software Technology Co., Ltd, and responsible for the company's businesses such as software, information technology, industry solutions and so on. His research area mainly includes the engineering application and promotion of domestic control systems, the application and engineering of advanced control and optimization software, the application and promotion of the overall solution of intelligent factories etc.. He has undertaken two key scientific research projects supported by the Ministry of Science and Technology and National Development and Reform Commission as a project leader, obtained one provincial and ministerial appraisal, and published more than ten high-quality papers in national core journals. He has devoted himself to the research and promotion of integrated solutions for intelligent manufacturing, actively implementing "Made in China 2025", providing integrated solutions for high-end customers such as Shenhua Ning Coal, Northeast PHARM, SINOPEC Jiujiang, Xinjiang Tianye, Zhejiang Juhua and Wynca, and comprehensively upgrading the level of intelligent transformation of process industry. He is now the director of Zhejiang Turing Internet Research Institute, and is also in the editorial board of Process Automation Instrumentation.

Development Forum 2

7月29日 15:50-17:50
4号楼二楼东莞厅

July 29, 15:50-17:50
Dongguan Hall, 2nd Floor, Block 4

Stochastic Systems and Control**随机系统与控制论坛**

Chair: Feiqi Deng (South China University of Technology, China)

Speakers: Tomás Caraballo (Universidad de Sevilla, Spain)

Xuerong Mao (University of Strathclyde, UK)

Zidong Wang (Brunel University, UK)

Huanshui Zhang (Shandong University, China)

Chanying Li (Academy of Mathematics and Systems Science, Chinese Academy of Sciences, China)



Tomás Caraballo was born in 1960. He received his PhD degree at the Universidad de Sevilla, defending his PhD thesis on Stochastic PHDs with delays in 1988 under the supervision of Prof. José Real Anguas, who was a world recognized expert in the field of stochastic PHD. His first studies focused on the local stability analysis and stabilization of several problems modeled by stochastic D with hereditary properties (delays, memory, etc.). Next, his interest focused on the new theory of random dynamical systems, where, jointly with his first PhD student, José A. Langa, they started to contribute. Almost at the same time, the theory of non-autonomous dynamical system started to experience new approaches, and new techniques were started to be developed for such systems: the pullback convergence concepts from the random theory. This justifies the beginning of his collaboration with Prof. Kloeden and his team, contributing in this way to the development of these theories which nowadays are still being analyzed intensively, but most importantly, is being applied to many problems in the Applied Sciences. With the collaboration of Prof. Real, at the beginning of 2001, they consolidated a research group formed by researchers of the Universidad de Sevilla (called Stochastic Analysis of Differential Systems (ASDIF), and started a very fruitful collaboration with many other recognized researchers in the field. As principal Investigator, he has been awarded significant research projects, has supervised PhD and currently is supervising 3 more. He has also chaired several international conferences and numerous One-Day workshops and has been invited to deliver many plenary and main talks in international conferences, has taken part in many scientific committees, is member of several editorial committees of relevant journals and guest editor of many special issues. Moreover, he has been member of many PhD thesis committees and has also been member of assessment committees for research projects, both at national and international level. Over the last years, his scientific interest focuses on the stochastic differential equations (ordinary and partial) with or without delays, the asymptotic behavior of dynamical systems perturbed by noisy terms, multivalued dynamical systems and non-autonomous dynamical systems. He has published more than 220 research papers into top journals with high impact factor, book, and his publications are highly cited which makes that he appears in the position 435 of mathematicians appearing in the Highly Cited Scientists (by Thomson and Reuters).



Xuerong Mao is a professor in the Department of Mathematics and Statistics at the University of Strathclyde, UK. He is a Fellow of the Royal Society of Edinburgh (Scottish Academy). He is also a Yangtze River Professor. Recently he receives the Royal Society Wolfson Research Merit Award. He is a world leading expert and has established high reputation in the areas of stochastic stability and control. He is a founder of modern stochastic stability. He is good at stochastic analysis and has made significant contributions to stability and control. The methods and techniques established by him have been very much welcome and used by many researchers. For example, his theory on the stabilization by noise has influenced many researchers; he initiated the numerical analysis of SDEs under the local Lipschitz condition; he made outstanding contributions to stochastic population systems; he established the LaSalle principle for SDEs and investigated the hybrid SDEs systematically. His books and papers have been studied, used and cited by many authors. For example, his book "Stochastic Differential Equations and Their Applications (the 2nd ed.), Elsevier, 2007" has more than 4000 Google Scholar citations.



Zidong Wang is a Professor of Computing at College of Engineering, Design and Physical Sciences, Brunel University, UK. He was awarded the Humboldt research fellowship in 1996, the JSPS Research Fellow ship in 1998, and the William Mong Visiting Research Fellow ship in 2002. He has been engaged in the investigation of control theory (stochastic control, robust control, nonlinear control, model reduction etc.), signal processing and bioinformatics for a long time, and has published more than 500 journal papers (SCI). He is currently serving or has served as the Editor-in-Chief, Associate Editor or Editorial Board Member in twelve journals, including the Editor-in-Chief for Neurocomputing, Deputy Editor-in-Chief for International Journal of Systems Science, Associate Editor for *IEEE Transactions on Automatic Control*, *IEEE Transactions on Control Systems Technology*, *IEEE Transactions on Neural Networks*, *IEEE Transactions on Systems, Man, and Cybernetics – Systems*, *IEEE Transactions on Signal Processing* etc. Professor Wang used to be the Yangtze River Professor in Donghua University (2008-2010), professor of national short-term recruitment program in Tsinghua University (2011-2014). He is now a Fellow of the IEEE, a Member of the IEEE Press Editorial Board, a Fellow of the Royal Statistical Society.



Huanshui Zhang received the B.S. degree in mathematics from Qufu Normal University in 1986, the M.S. degree from Heilongjiang University in 1991 and the Ph.D. degree from Northeastern University, 1997, China. He held associated Professor of Taishan College from 1994 to 1999, and Professor of Shandong University from 1999 to 2003. From 2003 to 2006 he held Professor of Harbin Institute of Technology. In 2006, he was appointed as the distinguished professor of Taishan scholar at Shandong University. In the year 2008, he obtained a grant from the National Science Foundation for Distinguished Young Scholars of P. R. China. Currently, he is the Distinguished professor of Changjiang Scholar, Ministry of Education at Shandong University. He also held Post-Doctor Fellow or visiting Professor positions with Nanyang Technological University, the University of Newcastle and City University of Hong Kong from 1999 to 2015. He has served as an Associate Editor of several journals, including “*IEEE Control Systems Letters*”, “*IEEE Transactions on Automatic Control*”, “*IEEE Trans. on Circuits and Systems*”, “*International Journal of Control, Automation, and Systems*”, “*Journal of Industrial and Management Optimization*”, “*Control Theory and Applications*”, etc. His current research interests are optimal control, stochastic systems, time delay systems, networked systems, multi-agent systems. He with co-authors has published 1 book, over 150 journal papers and 130 conference papers.



Chanying Li received the B.S. degree in Mathematics from Sichuan University in 2002, and the M.S. and Ph.D. degrees in control theory from Academy of Mathematics and Systems Science, Chinese Academy of Sciences, in 2005 and 2008, respectively. She was a Postdoctoral Fellow at the Wayne State University from 2008 to 2009, and the University of Hong Kong from 2009 to 2011. She joined the Institute of Systems Science at Chinese Academy of Sciences in 2011, and is currently a professor at the Key Laboratory of Systems and Control, Chinese Academy of Sciences. Her current research interests include the maximum capability of feedback, adaptive nonlinear control, system identification and stochastic control systems.

Development Forum 3

7月30日 13:30-15:30
4号楼二楼东莞厅

July 30, 13:30-15:30
Dongguan Hall, 2nd Floor, Block 4

TCCT控制理论与应用教育工作组自动化与控制教育论坛**Automation and Control Education**

Chairs: Quan Pan (Northwestern Polytechnical University)
Yi Chai (Chongqing University)

报告人: 张承慧 (山东大学, 中国)

刘 丁 (西安理工大学, 中国)

李 莉 (同济大学, 中国)

姜钟平 (美国纽约大学, 美国)



张承慧, 山东大学控制科学与工程学院院长、教授、博士生导师, 教育部长江学者特聘教授, “新能源与高效节能”国家地方联合工程研究中心主任。系“新世纪百千万人才工程”国家级人选, 国家基金委创新群体负责人, 国家科技部863计划项目首席专家。山东大学教学指导委员会副主任。曾获国家宝钢教育基金会优秀教师特等奖、山东省首届十大师德标兵等称号。

主要从事新能源与储能控制、工程优化控制、控制理论与应用等领域的科学的研究和教学工作。主持国家“863计划”项目2项, 其中1项为项目首席专家, 国家“973计划”课题1项。主持国家基金项目10项, 其中国家基金委创新群体项目1项、重大仪器项目1项、重点项目2项、重大国际合作项目1项。

以第一完成人获国家科技进步二等奖1项、国家级教学成果二等奖2项, 获教育部科技进步一等奖1项、山东省科技进步一等奖1项; 中国自动化学会高等教育教学成果特等奖1项、山东省教学成果一等奖2项。在IEEE Trans. On Power Electronics等国际权威期刊和会议上发表论文270余篇, 授权专利74件。出版著作3部。



刘丁, 西安理工大学教授、博士生导师, 中国自动化学会常务理事, 教育部全国高校自动化类专业教学指导委员会副主任, 陕西省自动化学会副理事长, 国家“万人计划”教学名师。

主要从事复杂工业过程建模、优化与控制、智能控制理论及应用、智能机器人等方面的研究。以第一完成人获国家技术发明奖、科技进步奖各一项, 省(部)级科学技术一等奖4项, 国家级教学成果二等奖2项; 发表学术论文300余篇, 主编国家精品教材1部、学术专著2部; 授权中、美等国发明专利36项; 主持完成(在研)国家科技重大专项、国家“863”计划、“973”计划、国家自然基金重点项目、教育部“新工科”教改项目等各类科研、教学项目30余项。



李莉, 1975年4月出生, 教授、博导。现任同济大学电子与信息工程学院控制科学与工程系系主任。2003年毕业于中国科学院沈阳自动化研究所获机械电子工程博士学位, 2003年2月-2005年1月于同济大学从事博士后研究工作。兼任中国自动化学会集成自动化技术专业委员会秘书长、中国自动化学会专家咨询工作委员会(ECC)委员、上海市自动化学会理事、上海市人工智能学会理事、边缘计算产业联盟专家委员会委员、《计算机集成制造系统》常务理事。主要研究方向为数据驱动的建模与优化、计算智能、智能生产、智能物流等。主持或参加国家973、863计划项目、国家自然科学基金重点项目、国家自然科学基金面上项目等10余项, 出版学术专著3部, 在高水平国际国内期刊和国际会议上发表学术论文80余篇, 授权发明专利5项。获中国自动化学会技术发明奖一等奖、上海市技术发明奖一等奖、中国自动化学会教学成果一等奖各1项。



Zhong-Ping Jiang received the M.Sc. degree in statistics from the University of Paris XI, France, in 1989, and the Ph.D. degree in automatic control and mathematics from the ParisTech-Mines, France, in 1993, under the direction of Prof. Laurent Praly.

Dr. Jiang currently is a Professor of Electrical and Computer Engineering at the Tandon School of Engineering, New York University. His main research interests include stability theory, robust/adaptive/distributed nonlinear control, adaptive dynamic programming and their applications to information, mechanical and biological systems. He is coauthor of four books *Stability and Stabilization of Nonlinear Systems* (with Dr. I. Karafyllis, Springer, 2011), *Nonlinear Control of Dynamic Networks* (with Drs. T. Liu and D.J. Hill, Taylor & Francis, 2014), *Robust Adaptive Dynamic Programming* (with Y. Jiang, Wiley-IEEE Press, 2017) and *Nonlinear Control Under Information Constraints* (with T. Liu, Science Press, 2018). Prof. Jiang is a Deputy co-Editor-in-Chief of the *Journal of Control and Decision* and of the *IEEE/CAA Journal of Automatica Sinica*, a Senior Editor of the *IEEE Control Systems Letters* and the *Systems and Control Letters*, and has served as an Associate Editor for several journals. Prof. Jiang is an IEEE Fellow, an IFAC Fellow and is a Clarivate Analytics Highly Cited Researcher.

Development Forum 4

7月30日 15:50-17:50
4号楼二楼东莞厅

July 30, 15:50-17:50
Dongguan Hall, 2nd Floor, Block 4

Advances in Research and Application of Aerial Robots**空中机器人研究和应用进展论坛**

Chair: Junrong Qi (Tianjin University, China)

Speakers: Quan Quan (Beihang University, China)

Pakpong Chirarattananon (City University of Hong Kong, China)

Cunjia Liu (Loughborough University, UK)

Chao Xu (Zhejiang University, China)

Guowei Cai (Fujian AeroTiger UAV Co., Ltd)

Junrong Qi (Tianjin University, China)



Quan Quan received the B.S. and Ph.D. degrees from Beihang University, Beijing, China, in 2004 and 2010, respectively. He was a research fellow in National University of Singapore from June 2011 to October 2011. Since 2013, he has been an Associate Professor with Beihang University, where he is currently with the School of Automation Science and Electrical Engineering. He was also a visiting professor of the University of Toronto in 2017 hosted by Professor W.M. Wonham. His research interests include reliable flight control and vision-based navigation. As a single author, he completed the first book about multicopter systems, entitled “Introduction to Multicopter Design and Control”. Also, he led his group to develop a performance evaluation website [fly eval. com](http://eval.com) for multicopters.



Pakpong Chirarattananon received his Bachelor and Master degrees from University of Cambridge, UK, and a Ph.D. degree from Harvard University under the supervision of Professor Robert Wood in 2014. His graduate work was centered on the dynamics and control for insect-scale flapping-wing robots. In December 2014, he joined the Department of Mechanical and Biomedical Engineering as an Assistant Professor and founded the Robotic and Intelligent Systems Laboratory at City University of Hong Kong. Dr Chirarattananon is broadly interested in applying control and dynamic system theories to study aerial and biologically-inspired robotic systems. He has published in *Science*, *Science Robotics*, and has been nominated as the best student paper award finalist at the 2013 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) and the best paper award finalist at the 2014 IEEE International Conference on Biomedical Robotics and Biomechatronics. Dr Chirarattananon is serving as the publication co-chair for the upcoming 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) and the 2019 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM).



Cunjia Liu received his B.Eng. and M.Sc. degrees in guidance, navigation, and control from Beihang University, Beijing, China, in 2005 and 2008, respectively. In 2011, he received a Ph.D. in autonomous vehicle control from Loughborough University, Loughborough, Leicestershire, UK. He was a research associate with the Department of Aeronautical and Automotive Engineering at Loughborough University, where he was appointed as a Lecturer and then a Senior Lecturer in Unmanned Vehicles in 2013 and 2018, respectively. He has considerable research experience in autonomous vehicles and Bayesian estimation and their applications in different domains. His research has been widely supported by UK research councils, Innovate UK and Dstl, including the prestigious EPSRC First Grant, the Dstl Minerva project and the Newton fund Agri-tech China project. He has been awarded the Charles Sharpe Beecher Prize by the UK Institution of Mechanical Engineers for his work in autonomous helicopter control.



Chao Xu received his B.Sc. degree of mechanical engineering from Shenyang Aerospace University in 2002 and his M.Sc. degree of mathematics from Zhejiang University in 2005. He obtained his Ph.D. degree of mechanical engineering from Lehigh University in 2010. Dr. Charles C. Xu is currently Professor and Associate Director in the Institute for Cyber-Systems & Control (CSC), Zhejiang University. Since the beginning of 2018, Dr. Xu started to serve the Assistant Dean of the College of Control Science & Engineering. He also serves as the Managing-Editor in Journal of Industrial and Management Optimization (JIMO), the Associate Editor of the Numerical Algebra, Control and Optimization (NACO), the Associate Editor of Information & Control Technology (a Chinese Journal). He is the co-founder of the IET Cyber-Systems and Robotics. Also, Dr. Xu is an affiliate member of the State Key Laboratory of Industrial Control Technology. His research team at ZJU has carried out a few research grants from the National Science Foundation of China, the 863 High-Tech Foundation, and Shanghai Academy of Spaceflight Technology (SAST) Innovation Foundation, Zhejiang Provincial National Science Foundation, and etc. Dr. Xu was selected to receive the American Control Conference Best Student Paper Finalist Award in 2008, the First Place Award of the National Academy of Engineering Grand Challenges Summit Poster Contest in 2009, the Outstanding Paper Award of the 13th International Conference on Control, Automation and Systems, and the Fellowship of Brown International Research Institutions in 2013. As the advisor, he supervised student teams winning the Champion of the International Aerial Robotics Competition in 2018 for the 7th IARC mission (2014 - 2018), and the First Place Award of the (Chinese) National University Students Opt-Sci-Tech Competition in 2016. Also, he supervised undergraduate students winning the 3rd place prize of the 11th World Robotic Sailing Championship (WRSC) Micro-sailboat class in 2018. Research interest of Dr. Xu is Control of Robots & Turbulence.



Guowei Cai currently works as the CEO of Fujian AeroTiger UAV Co., Ltd. Dr. Cai received the B.S. and Ph.D. degrees from Tianjin University, China, in 2004 and National University of Singapore, Singapore, in 2010, respectively. He was a research fellow in National University of Singapore in 2009, a research fellow and group leader of the Control Science Group, Temasek Laboratories, Singapore, from 2009 to 2012. From 2012 to 2017, he was an Assistant Professor in Khalifa University, UAE. His research interests include the design, development, modeling, and control of miniature unmanned aerial vehicles. Currently he is an editor of "Unmanned Systems", IEEE member, AIAA member, and the associate chair of the IEEE Control System and Power Association. He is the winner of the best application paper of the 7th Asian Control Conference, and was awarded the Fujian Province High-Level Talent(B-Level) in 2017.



Juntong Qi, professor, doctoral supervisor, deputy director of the Institute of Robotics and Autonomous Systems, Tianjin University, founder of EFY Intelligent Control (Tianjin) Technology Co., Ltd, representative of the 17th People's Congress in Tianjin. From 2004 to 2015, Prof. Qi was engaged in the frontier research in intelligent control of aerial robots at Shenyang Automation Research Institute of Chinese Academy of Sciences. Since 2015, he has been working on research and the transformation of aerial robotic technological achievements in Tianjin University and EFY Intelligent Control (Tianjin) Technology Co., Ltd. Over the years, Prof. Qi has been devoting his time in the development and application of robot autonomous control and cluster control technologies. He has been in charge of over 40 projects, including Tianjin Natural Science Project, 863 National Hi-Tech Project, 973 National Hi-Tech Project, National Sci-Tech Support Project, etc. He was awarded China "May 4th Youth Medal", Leading Talents in Science and Technology

Entrepreneurship under the National "Ten Thousands Talents Program", Innovative and Entrepreneurial Talents of National Innovative Talents Promotion Program, China Patent Excellence Award, First Prize of Liaoning Province Scientific and Technological Progress Award, Young Science and Technology Talents of Tianjin Innovative Talents Promotion Program, and Tianjin Outstanding Entrepreneur Award, etc.

会前专题讲座 (Pre-conference Tutorial Workshops)

- 会议时间: 2019年7月27日

Time: July 27, 2019

Workshop 1

7月27日09:00-12:00
3号楼三楼 3302 会议室

July 27, 09:00-12:00
Room 3302, 3rd Floor, Block 3

Control and Optimization for Networked Systems

Chair: Qing-Shan Jia (Tsinghua University, China)

Speakers: Ling Shi (Hong Kong University of Science and Technology, China)

Fumin Zhang (Georgia Institute of Technology, USA)

Hua Geng (Tsinghua University, China)

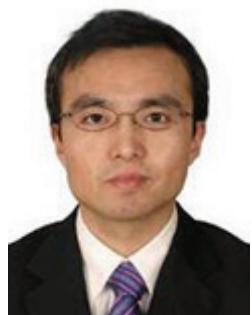


Ling Shi received the B.S. degree in electrical and electronic engineering from Hong Kong University of Science and Technology, Kowloon, Hong Kong, in 2002 and the Ph.D. degree in Control and Dynamical Systems from California Institute of Technology, Pasadena, CA, USA, in 2008. He is currently an associate professor at the Department of Electronic and Computer Engineering, Hong Kong University of Science and Technology. His research interests include cyber-physical systems security, networked control systems, sensor scheduling, event-based state estimation, and exoskeleton robots. He is a senior member of IEEE. He served as an editorial board member for The European Control Conference 2013-2016. He was a subject editor for International Journal of Robust and Nonlinear Control (2015-2017). He has been serving as an associate editor for IEEE Transactions on Control of Network Systems from July 2016, and an associate editor for IEEE Control Systems

Letters from Feb 2017. He also served as an associate editor for a special issue on Secure Control of Cyber Physical Systems in the IEEE Transactions on Control of Network Systems in 2015-2017. He served as the General Chair of the 23rd International Symposium on Mathematical Theory of Networks and Systems (MTNS2018).



Fumin Zhang is Professor in the School of Electrical and Computer Engineering at the Georgia Institute of Technology. He received a PhD degree in 2004 from the University of Maryland (College Park) in Electrical Engineering, and held a postdoctoral position in Princeton University from 2004 to 2007. His research interests include mobile sensor networks, maritime robotics, control systems, and theoretical foundations for cyber-physical systems. He received the NSF CAREER Award in September 2009 and the ONR Young Investigator Program Award in April 2010. He is currently serving as the co-chair for the IEEE RAS Technical Committee on Marine Robotics, associate editors for IEEE Journal of Oceanic Engineering, Robotics and Automation Letters, IEEE Transactions on Automatic Control, and IEEE Transactions on Control of Networked Systems, and the deputy editor-in-chief for the Cyber-Physical Systems Journal.



Hua Geng received his Ph.D. degree in control theory and application from Tsinghua University, Beijing, China in 2008. From 2008 to 2010, he was a Postdoctoral Research Fellow with Ryerson University, Canada. He joined Automation Department of Tsinghua University in June 2010 and now is a tenured Associate Professor. His current research interests include renewable energy conversion systems, Flexible AC transmission system (FACTS), micro-grid and digital control on power electronics. He has been the principle investigator (PI) or Co-PI for more than 20 projects, including National Excellent young scholar, Key Program and China-UK joint Program of National Science Foundation of China (NSFC), National Key R&D Program of China. Dr. Geng has published more than 150 technical papers, authored a China Machine Press book, and holds 10 issued Chinese patents.

He was granted “Delta Young Scholar Award” by Delta Environmental and Educational Foundation in 2014 and “Young Professional Award” by China Power Supply Society (CPSS) in 2013. Dr. Geng is an IET Fellow, IEEE Senior Member, Chair of the Youth Working Committee of CPSS, Standing Director of CPSS. He serves as the editor

of IEEE Trans. on Energy Conversion, IEEE Trans. on Sustainable Energy and IEEE Power Engineering Letters, the associate editor of IEEE Trans. on Industry Applications, Control Engineering Practice, Chinese Journal of Electrical Engineering and CPSS trans. on Power Electronics and Applications.

Workshop 2

7月27日13:30-16:30
3号楼三楼 3302 会议室

July 27, 13:30-16:30
Room 3302, 3rd Floor, Block 3

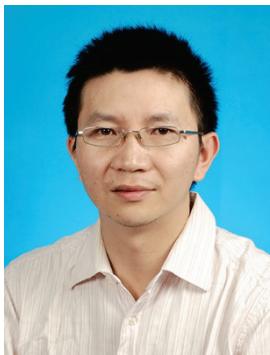
Advances on Brain Signal Processing

Chair: Yuanqing Li (South China University of Technology, China)

Speakers: Peng Xu (University of Electronic Science and Technology of China, China)

Ming Dong (Tianjin University, China)

Xun Chen (University of Science and Technology of China, China)



Peng Xu received Ph.D. from University of Electronic Science and Technology of China (UESTC) in 2006. He has been post-doctor training in University of California, Los Angeles during 2007-2009. From 2014, he has been professor in School of Life Science & Technology, UESTC. His research interest includes the development of methodology for EEG analysis, Brain Computer Interface and EEG based clinical applications. He has more than 80 refereed journal publications including IEEE TBME, IEEE TNSRE, Journal of Neural Engineering, Cerebral Cortex, Neuroimage and Human Brain Mapping, etc. He is funded by the National Science Fund for Excellent Young Scholar in 2015, and received the first prize of natural science of Ministry of Education in 2010.



Ming Dong received his B.S. and Ph.D. degrees in biomedical engineering at Tianjin University (TJU), China, in 1999 and 2004, respectively. He worked as a research associate in the Department of Orthopaedics and Traumatology, Li Ka Shing Faculty of Medicine, University of Hong Kong, from 2002 to 2003 and was a visiting scholar in the Division of Mechanical Engineering and Mechatronics, University of Dundee, U.K., from 2005 to 2006. He joined TJU faculty in the College of Precision Instruments and Optoelectronics Engineering in 2006 and was promoted to full professor of biomedical engineering since 2011. Now he is the Chair Professor of the Department of Biomedical Engineering of TJU, the director of the Tianjin Neural Engineering Center, the director of Academy of Medical Engineering and Translational Medicine and the Chair of IEEE-EMBS Tianjin Chapter.

His major research interests include neural engineering, rehabilitation engineering, sports science, biomedical instrumentation and signal/image processing, especially in brain-computer interface, functional electrical stimulation, and gait analysis. He has managed almost 20 national and international research projects. He designed I-Neuro Sys Robot “TUNEXON-I”, which is the first “intention controlled” artificial neural robot for whole body rehabilitation of stroke patients. It is one of the “top 10 technical achievements of China to change the future” in 2014. He and his colleagues have successfully carried out the first in-space BCI experiment on the “Tiangong II” space station. He has also organized and hosted over 10 international conferences as the Session Chair or Track Chair over the last 10 years and was the General Chair of the 2012 IEEE International Conference on Virtual Environments, Human -Computer Interfaces and Measurement Systems (VECIMS 12). Furthermore, he has been an International Advisory Board member of The Foot, and the Editorial Committee member of International Journal of Biomedical Engineering in China.



Xun Chen received the B.Sc. degree in the Department of Electronic Science and Technology at the University of Science and Technology of China (USTC), Hefei, China, in 2009, and received the Ph.D. degree in the Department of Electrical and Computer Engineering at the University of British Columbia (UBC), Vancouver, Canada, in 2014. He became a postdoctoral fellow at UBC in 2014. From October 2014 to April 2018, he was a professor in the Department of Biomedical Engineering at the Hefei University of Technology. Subsequently, he joined the Department of Electronic Science and Technology at USTC, where he is currently a Professor. His research interests include the broad areas of statistical signal processing and machine learning in biomedical applications. He has published over 60 refereed journal/conference papers, e.g. IEEE SPM, IEEE TBME, IEEE JBHI, IEEE TIM. He is serving as associate editor for IEEE Access, and also serving as

guest associate editor for Frontiers in Aging Neuroscience and Sensors. He has served on a number of committees of international conferences, e.g. IEEE MMSP2018 and Global SIP2017. He is also the reviewer for over 30 prestigious IEEE/Elsevier/Springer journals.

Workshop 3

7月27日09:00-12:00
3号楼三楼 3303 会议室

July 27, 09:00-12:00
Room 3302, 3rd Floor, Block 3

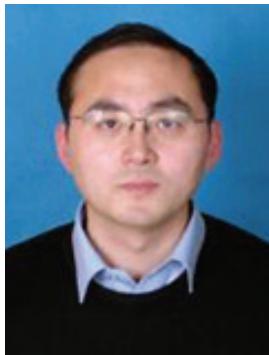
Distributed Optimization Over Networks

Chair: Keyou You (Tsinghua University, China)

Speakers: Yiguang Hong (Academy of Mathematics and Systems Science, CAS, China)

Lihua Xie (Nanyang Technological University, Singapore)

Keyou You (Tsinghua University, China)



Yiguang Hong received his B.S. and M.S. degrees from Dept. of Mechanics of Peking University, China, and the Ph.D. degree from the CAS, China. He is currently a Guan Zhao-Zhi Professor in Academy of Mathematics and Systems Science, CAS, and serves as the Director of Key Lab of Systems and Control, CAS and the Director of the Information Technology Division, National Center for mathematics and Interdisciplinary Sciences, CAS.

His current research interests include nonlinear control, multi-agent systems, distributed optimization and games, machine learning, and social networks. Prof. Hong serves as Editor-in-Chief of *Control Theory and Technology* and Deputy Editor-in-Chief of *Acta Automatica Sinica*. He also serves or served as Associate Editors for many journals including the *IEEE Transactions on Automatic Control*, *IEEE Transactions on Control of Network Systems*, *IEEE Control Systems Magazine*, and *Nonlinear Analysis: Hybrid Systems*. He is a recipient of the Guan Zhao-Zhi Award at the Chinese Control Conference, Young Author Prize of the IFAC World Congress, Young Scientist Award of CAS, the Youth Award for Science and Technology of China, and the National Natural Science Prize of China. Also, he is a Fellow of IEEE and board of governor of IEEE Control Systems Society.



Lihua Xie received the B.E. and M.E. degrees in electrical engineering from Nanjing University of Science and Technology in 1983 and 1986, respectively, and the Ph.D. degree in electrical engineering from the University of Newcastle, Australia, in 1992. He was with the Department of Automatic Control, Nanjing University of Science and Technology from 1986 to 1989. Since 1992, he has been with the School of Electrical and Electronic Engineering, Nanyang Technological University (NTU), Singapore, where he is currently a Professor and the founding Director, Delta-NTU Corporate Laboratory for Cyber-Physical Systems which received \$45M funding from National Research Foundation of Singapore, Delta Electronics and NTU. He served as the Head of Division of Control and Instrumentation from July 2011 to June 2014.

His current research interests include networked control, multi-agent systems, distributed optimization, compressive sensing, localization, and unmanned systems. He is an Editor-in-Chief of Unmanned Systems and an Associate Editor of IEEE Transactions on Network Control Systems. He has served as an Editor for IET Book Series in Control and Associate Editor for *Automatica*, *IEEE Transactions on Automatic Control*, *IEEE Transactions on Control Systems Technology*, *IEEE Transactions on Circuit and Systems-II*, etc. He Was an IEEE Distinguished Lecturer (2011-2014). Dr Xie is the Fellow of IEEE, and the Fellow of IFAC, and an elected member of the Board of Governors of IEEE Control Systems Society (2016-2018).



Keyou You received the B.S. degree in Statistical Science from Sun Yat-sen University, Guangzhou, China, in 2007 and the Ph.D. degree in Electrical and Electronic Engineering from Nanyang Technological University (NTU), Singapore, in 2012. After briefly working as a Research Fellow at NTU, he joined Tsinghua University in Beijing, China where he is currently an Associate Professor in the Department of Automation. He held visiting positions at Politecnico di Torino, The Hong Kong University of Science and Technology, The University of Melbourne and etc.

His current research interests include networked control systems, distributed algorithms and learning, and their applications. Dr. You received the Guan Zhaozhi award at the 29th Chinese Control Conference in 2010 and a CSC-IBM China Faculty Award in 2014. He was selected to the National 1000-Youth Talent Program of China in 2014 and received the National Natural Science Fund for Excellent Young Scholars in 2017.

Workshop 4

7月27日13:30-16:30
3号楼三楼 3303 会议室

July 27, 13:30-16:30
Room 3302, 3rd Floor, Block 3

Fully Autonomous Unmanned Aerial Systems

Chair: Ben M. Chen (Chinese University of Hong Kong, China)

Speakers: Ben M. Chen (Chinese University of Hong Kong, China)

Biao Wang (Nanjing University of Aeronautics and Astronautics, China)

Feng Lin (National University of Singapore, Singapore)

Shupeng Lai (National University of Singapore, Singapore)



Ben M. Chen is currently a Professor in the Department of Mechanical and Automation Engineering at the Chinese University of Hong Kong. He was a Provost's Chair Professor in the Department of Electrical and Computer Engineering, the National University of Singapore (NUS), where he was also serving as the Director of Control, Intelligent Systems and Robotics Area, and Head of Control Science Group, NUS Temasek Laboratories. His current research interests are in unmanned systems, robust control, control applications, and financial market modeling.

Dr. Chen has published more than 400 journal and conference articles, and a dozen research monographs in control theory and applications, unmanned systems as well as financial market modeling. He had served on the editorial boards of several international journals including *IEEE Transactions on Automatic Control* and *Automatica*. He currently serves as an Editor-in-Chief of *Unmanned Systems*. Dr. Chen has received a number of research awards nationally and internationally. His research team has actively participated in international UAV competitions, and won many championships in the contests. He is an IEEE Fellow and CAA Fellow.



Biao Wang received his B.Eng. in Aero-engine Control Engineering, M.Eng. in Aero-engine, and Ph.D. in Guidance, Navigation and Control all from the Nanjing University of Aeronautics and Astronautics (NUAA), Nanjing, China, in 1997, 2000, and 2004, respectively. Dr. Wang is currently an Associate Professor in the School of Automation Engineering at NUAA. His main research interests are unmanned aircraft systems, visual guidance and flight control, the applications of active disturbance rejection control and model predictive control as well as visual target detection and tracking to autonomous landing and other guidance tasks. He has served on the editorial board for *Unmanned Systems*. He was the recipient of several prizes in Defense Science and Technology from Ministry of Industry and Information Technology of China.



Feng Lin received his B.Eng. in Computer Science and Control, and M.Eng. in System Engineering from Beihang University, Beijing, China, in 2000 and 2003, respectively. He received his Ph.D. in Electrical and Computer Engineering from the National University of Singapore (NUS) in 2011. Dr. Lin is currently a Senior Research Scientist in Temasek Laboratories at NUS and a Research Assistant Professor in the Department of Electrical and Computer Engineering, NUS. His main research interests are unmanned aerial vehicles, vision-aided control and navigation, target tracking, robot vision as well as embedded vision systems. He has served on the editorial board for *Unmanned Systems*. He was the recipient of the Best Application Paper Award, 8th World Congress on Intelligent Control and Automation, Jinan, China (2010).



Shupeng Lai received his B.Eng. in Electrical and Electronic Engineering from Nanyang Technological University, Singapore, in 2012, and his PhD in Electrical and Computer Engineering from National University of Singapore, in 2016. He is currently working a research fellow in the Department of Electrical and Computer Engineering, National University of Singapore.

Dr. Lai is the recipient of the Guan Zhao-Zhi Award at the 37th Chinese Control Conference, Wuhan, China, 2018. He was also a co-author of the research work won the Guan Zhao-Zhi Award at the 33rd Chinese Control Conference, Nanjing, China, 2014. His current research interest is in topics related to unmanned systems including mobile robots motion planning and control.

第六届中国自动化学会控制理论专业委员会“杰出贡献奖”获奖者 (The Awardee of the Sixth TCCT Outstanding Contribution Award)



陈杰，教授，中国工程院院士、IEEE Fellow、同济大学校长。“复杂系统智能控制与决策”国家重点实验室主任、国家杰出青年科学基金获得者、教育部长江学者奖励计划特聘教授、国家自然科学基金委创新研究群体学术带头人、973项目首席、新世纪百千万人才工程国家级人才、全国优秀科技工作者。现担任国务院学位委员会学科评议组控制科学与工程组成员、教育部科学技术委员会委员，中国自动化学会副理事长、中国指挥与控制学会副理事长、中国人工智能学会常务理事，多部国际、国内学术期刊副主编和编委。

长期从事控制科学与工程等相关学科领域的教学与科研工作。在动态环境下复杂系统的多指标优化与控制、多智能体协同控制等研究领域内进行了深入研究，并面向应用将在该领域的研究与装备系统建设密切结合。近年来，以第一完成人获国家自然科学二等奖 1 项、国家科技进步二等奖 2 项、省部级一等奖 4 项。何梁何利基金“科学与技术进步奖”获得者。发表 SCI 收录论文 90 余篇，以第一发明人获授权发明专利 40 多项，先后出版学术专著 4 部、教材和译著各 1 部。

陈杰院士曾任第九届、第十届中国自动化学会控制理论专业委员会 (TCCT) 副主任 (2008-2017); 第十一届 TCCT 顾问委员 (2018-2022)。在 TCCT 任职期间他汇集了会员们的想法，共同推动了中国控制大会，并大力发展了 CCC。

Jie Chen is an academician of the Chinese Academy of Engineering and an IEEE Fellow. He serves as the President of Tongji University and the director of the State Key Laboratory of Intelligent Control and Decision of Complex Systems. He received the National Distinguished Young Scholar Award from the National Natural Science Foundation of China and was honored as a Chang Jiang Scholar by the Ministry of Education, China. He is also the chief scientist of a 973 program, a National Talent of the New Century Talent Projects, and a National Excellent Scientist. He is currently a member of the Review Panel on Control Science and Engineering in the Academic Degrees Committee of the State Council and a member of the Science and Technology Committee of the Ministry of Education, China. He also serves as a Vice President of both the Chinese Association of Automation and the Chinese Institute of Command and Control, a Standing Director of the Chinese Association for Artificial Intelligence, and an associate editor or editorial board member for several international and domestic academic journals.

He has been dedicated to teaching and research in control science and engineering and other related disciplines. He has made outstanding achievements on multi-index optimization and control of complex systems in dynamic environments, multi-agent cooperative control, etc., and closely integrated the research and the construction of equipment systems for practical applications. In recent years, he won one second-class prize of the National Natural Science award, two second-class prizes of the National Scientific and Technological Progress Award, and four first-class provincial prizes. He is also a recipient of the Science and Technology Awards of the Ho Leung Ho Lee Foundation. He published over 90 SCI-indexed papers, four monographs, one textbook and one translation, and also held over 40 invention patents as the first inventor.

Professor Chen served as the Vice-President of the 9th, 10th TCCT (2008-2017), and he is currently the member of the 11th TCCT Advisory Committee. He pooled members' idea together to promote the Chinese Control Conference (CCC) and developed CCC tremendously while in TCCT.

会议程序总览 (Program at a Glance)

第38届中国控制会议

The 38th Chinese Control Conference

中国 • 广州 (Guangzhou, China)

July 27-30, 2019

7月27日 (星期六) July 27 (Saturday)	7月28日 (星期日) July 28 (Sunday)		7月29日 (星期一) July 29 (Monday)		7月30日 (星期二) July 30 (Tuesday)	
注册/Registration: 白云国际会议中心 / Baiyun International Convention Center (BYICC) 时间/Time: July 27, 08:00-22:00 July 28, 08:00-18:00 July 29, 08:00-18:00 其他时间/Other time: Please contact the conference administrative office staff: 李攀硕/ Panshuo Li (+86-18022395300)	08:40-09:00 开幕式/Opening Ceremony 09:00-10:00 大会报告 1/ Plenary Talk 1 by Robert R. Bitmead 10:00-10:20 茶歇/Tea Break 10:20-11:20 大会报告 2/ Plenary Talk 2 by Weihua Gui 11:20-12:20 大会报告 3/ Plenary Talk 3 by Le Yi Wang	08:30-09:30 大会报告 4/ Plenary Talk 4 by Frank Allgöwer 09:30-10:30 大会报告 5/ Plenary Talk 5 by Xiaohong Guan 10:30-10:50 茶歇/Tea Break 10:50-12:20 专题研讨 1/Panel Discussion 1 Control and Automation: The Presence and the Future	08:30-09:30 大会报告 6/ Plenary Talk 6 by Tielong Shen 09:30-10:30 大会报告 7/ Plenary Talk 7 by Zhong-Ping Jiang 10:30-10:50 茶歇/Tea Break 10:50-12:20 专题研讨 2/ Panel Discussion 2 Forum of Young Outstanding Scholars on Advanced Control and Intelligent Systems			
09:00-12:00 会前专题讲座 1/ Pre-conference Workshop 1 13:30-16:30 会前专题讲座 2/ Pre-conference Workshop 2 白云国际会议中心 3 号楼三楼 3302 会议室/ Room 3302, 3rd Floor, Block 3, BYICC 09:00-12:00 会前专题讲座 3/ Pre-conference Workshop 3 13:30-16:30 会前专题讲座 4/ Pre-conference Workshop 4 白云国际会议中心 3 号楼三楼 3303 会议室/ Room 3303, 3rd Floor, Block 3, BYICC 15:00-17:00 控制理论专业委员会会议/ Meeting of TCCT 白云国际会议中心 4 号楼一楼越秀华堂/ Yuexiu Huatang, 1st Floor, Block 4, BYICC	12:20-13:20 午餐/Lunch 2 号楼二楼多功能厅/ Multi-function Hall, 2nd Floor, Block 2	12:20-13:20 午餐/Lunch 2 号楼二楼多功能厅/ Multi-function Hall, 2nd Floor, Block 2	12:20-13:20 午餐/Lunch 2 号楼二楼多功能厅/ Multi-function Hall, 2nd Floor, Block 2	12:20-13:20 午餐/Lunch 2 号楼二楼多功能厅/ Multi-function Hall, 2nd Floor, Block 2		
	13:30-15:30 口头报告/ Oral Sessions SuA00-27 15:30-15:50 休息/Break 15:50-17:50 口头报告/ Oral Sessions SuB01-27 13:30-15:30 张贴报告/ Poster Session PSuA 15:30-15:50 休息/Break 15:50-17:50 张贴报告/ Poster Session PSuB	13:30-15:30 口头报告/ Oral Sessions MoA01-27 15:30-15:50 休息/Break 15:50-17:50 口头报告/ Oral Sessions MoB01-27 13:30-15:30 张贴报告/ Poster Session PMoA 15:30-15:50 休息/Break 15:50-17:50 张贴报告/ Poster Session PMoB 13:30-15:30 Development Forum 1: Intelligent Manufacturing Frontier 15:50-17:50 Development Forum 2: Stochastic Systems and Control	13:30-15:30 口头报告/ Oral Sessions TuA01-27 15:30-15:50 休息/Break 15:50-17:50 口头报告/ Oral Sessions TuB01-27 13:30-15:30 Development Forum 3: Automation and Control Education 15:50-17:50 Development Forum 4: Advances in Research and Application of Aerial Robots			
	18:30 晚餐/Dinner 2 号楼二楼多功能厅/ Multi-function Hall, 2nd Floor, Block 2	18:30 晚餐/Dinner 2 号楼二楼多功能厅/ Multi-function Hall, 2nd Floor, Block 2	18:30-19:00 闭幕式/Closing Ceremony 19:00-20:30 晚宴/Banquet 3 号楼二楼东方厅 + 多功能厅 B 区/ Oriental Hall and Function Room B, 2nd Floor, Block 3			
	15:40-17:30 《关肇直奖》评奖委员会会议/ Meeting of Guan Zhao-Zhi Award Evaluation Committee 4 号楼二楼东莞厅/ Dongguan Hall, 2nd Floor, Block 4	20:00-22:00 《中国科学》—中国控制会议张贴论文奖评奖委员会会议 / Meeting of SCIS-CCC Poster Paper Award Evaluation Committee 3 号楼三楼 3302 会议室/Room 3302, 3rd Floor, Block 3				

Track	Room	July 28, Sunday		July 29, Monday	
0	Dongguan Hall	SuA00 Guan Zhao-Zhi Award Finalist		Poster Session PSuA	Poster Session PSub
1	3301	SuA01 Systems Theory and Control Theory (1)	SuB01 Systems Theory and Control Theory (2)		MoA01 Complexity and Complex System Theory
2	3302	SuA02 Nonlinear Systems and Control (1)	SuB02 Nonlinear Systems and Control (2)		MoA02 Nonlinear Systems and Control (3)
3	3303	SuA03 System Modeling and Identification (1)	SuB03 System Modeling and Identification (2)		MoA03 Optimal Control
4	3305	SuA04 Optimization and Scheduling (1)	SuB04 Optimization and Scheduling (2)		MoA04 Optimization and Scheduling (3)
5	3306	SuA05 Cloud Computing and Computational Intelligence	SuB05 Variable Structure Control		MoA05 Process Control
6	3307	SuA06 Motion Control (1)	SuB06 Motion Control (2)		MoA06 Motion Control (3)
7	3308	SuA07 Signal Processing and Information Fusion (1)	SuB07 Signal Processing and Information Fusion (2)		MoA07 Signal Processing and Information Fusion (3)
8	3309	SuA08 Navigation and Guidance (1)	SuB08 Navigation and Guidance (2)		MoA08 Navigation and Guidance (3)
9	3311	SuA09 Adaptive Control and Learning Control (1)	SuB09 Adaptive Control and Learning Control (2)		MoA09 Adaptive Control and Learning Control (3)
10	3312	SuA10 Control Design	SuB10 Control of Network Systems and Networked Control Systems (1)		MoA10 Control of Network Systems and Networked Control Systems (2)
11	3313	SuA11 Multi-Agent Systems and Distributed Control (1)	SuB11 Multi-Agent Systems and Distributed Control (2)		MoA11 Multi-Agent Systems and Distributed Control (3)
12	3315	SuA12 Vehicle Control and Transportation Systems (1)	SuB12 Vehicle Control and Transportation Systems (2)		MoA12 Vehicle Control and Transportation Systems (3)
13	3401	SuA13 Aircraft Control (1)	SuB13 Aircraft Control (2)		MoA13 Aircraft Control (3)
14	3402	SuA14 Neural Networks and Deep Learning (1)	SuB14 Neural Networks and Deep Learning (2)		MoA14 Neural Networks and Deep Learning (3)
15	3403	SuA15 Intelligent Manufacturing and Industrial Intelligence	SuB15 Systems Engineering		MoA15 Information Systems and Cyber Security
16	3405	SuA16 IS: Recent Advances in distributed control and optimization of multi-agent systems	SuB16 IS: Distributed Coordination and Teaming of Multi-Agent Systems		MoA16 IS: Emerging problems and techniques in intelligent control of multi-agent systems
17	3406	SuA17 IS: Recent advances in networked and secure control	SuB17 IS: Control and Filtering for Network-Based Systems with Complexities		MoA17 IS: Distributed Control and Optimization
18	3407	SuA18 IS: Modeling, Control and Optimization of Complex Systems	SuB18 IS: Analysis, Control and Applications of Complex Network Systems (1)		MoA18 IS: Analysis, Control and Applications of Complex Network Systems (2)
19	3408	SuA19 IS: Distributed Optimization and Computation	SuB19 IS: Intelligent Control for Autonomous Systems		MoA19 IS: Intelligent Controls, Diagnosis and Health Management of Aero-engines (1)
20	3409	SuA20 IS: New Advances in Smart Grid Technology and Networked Control	SuB20 IS: Sustainable Energy Control and Smart Energy		MoA20 IS: Control and Optimization for Cyber Physical Energy Systems
21	3410	SuA21 IS: DEDS and Its Simulation & Optimization (1)	SuB21 IS: DEDS and Its Simulation & Optimization (2)		MoA21 IS: Hybrid Systems and ASSR (1)
22	3411	SuA22 IS: Advances in Disturbance/Uncertainty Estimation and Attenuation Techniques with Applications (1)	SuB22 IS: Advances in Disturbance/Uncertainty Estimation and Attenuation Techniques with Applications (2)		MoA22 IS: Optimization and control of power systems with renewable sources
23	3412	SuA23 IS: Advances in Stochastic Estimation and Optimization	SuB23 IS: Synthesis and Control of Non-smooth Complex Systems		MoA23 IS: Advances in Analysis And Synthesis of Time-delay Systems
24	3413	SuA24 IS: Intelligent Sensing and Control for Robotic Systems	SuB24 IS: Guidance, Control, and Coordination of Marine Vehicles		MoA24 IS: Signal/Image Recognition Theory and Applications
25	3415	SuA25 IS: Security and Control of Emerging Networked Systems	SuB25 IS: Advances in Security, Control and Optimization of Cyber-Physical Systems		MoA25 IS: Control and Applications of Stochastic Systems
26	3416	SuA26 IS: Practical Applications of New Control Methods and Optimization Techniques	SuB26 IS: Multi-Sensor Fusion Estimation with Applications		MoA26 IS: Intelligent Control of Drilling Process
27	3418	SuA27 IS: Analysis and Synthesis for Singular Dynamic Systems	SuB27 IS: Recent advances on analysis and synthesis of non-smooth control systems		MoA27 IS: Infrared Spectra & Image based Process Measurement & Monitoring

IS: Invited Session.

Dongguan Hall is located on the 2nd floor of Block 4.

Track	Room	July 29, Monday		July 30, Tuesday	
1	3301	MoB01 Stability and Stabilization	Poster Session PMoA	TuA01 Distributed Parameter Systems (1)	TuB01 Distributed Parameter Systems (1)
2	3302	MoB02 Nonlinear Systems and Control (4)		TuA02 Nonlinear Systems and Control (5)	TuB02 Nonlinear Systems and Control (6)
3	3303	MoB03 Stochastic Systems		TuA03 Hybrid Systems and DEDS	TuB03 Robust Control
4	3305	MoB04 Intelligent Robots (1)		TuA04 Intelligent Robots (2)	TuB04 Intelligent Robots (3)
5	3306	MoB05 Fuzzy System and Fuzzy Control		TuA05 Predictive Control (1)	TuB05 Predictive Control (2)
6	3307	MoB06 Fault Diagnosis and Reliable Control (1)		TuA06 Fault Diagnosis and Reliable Control (2)	TuB06 Fault Diagnosis and Reliable Control (3)
7	3308	MoB07 Signal Processing and Information Fusion (4)		TuA07 Signal Processing and Information Fusion (5)	TuB07 Big Data Analysis and Control
8	3309	MoB08 Navigation and Guidance (4)		TuA08 Navigation and Guidance (5)	TuB08 Navigation and Guidance (6)
9	3311	MoB09 Pattern Recognition (1)		TuA09 Pattern Recognition (2)	TuB09 Pattern Recognition (3)
10	3312	MoB10 Control of Network Systems and Networked Control Systems (3)		TuA10 New Energy Technology and Control in Environment (1)	TuB10 New Energy Technology and Control in Environment (2)
11	3313	MoB11 Multi-Agent Systems and Distributed Control (4)		TuA11 Multi-Agent Systems and Distributed Control (5)	TuB11 Multi-Agent Systems and Distributed Control (6)
12	3315	MoB12 Vehicle Control and Transportation Systems (4)		TuA12 Sensor Networks and Internet of Things (IoT)	TuB12 Systems Biology and Life Systems
13	3401	MoB13 Aircraft Control (4)		TuA13 Aircraft Control (5)	TuB13 Aircraft Control (6)
14	3402	MoB14 Neural Networks and Deep Learning (4)		TuA14 System Simulation, Integration and Evaluation (1)	TuB14 System Simulation, Integration and Evaluation (2)
15	3403	MoB15 Smart Grid		TuA15 Game Theory and Social Networks (1)	TuB15 Game Theory and Social Networks (2)
16	3405	MoB16 IS: New advances on the theory and application of multi-agent systems		TuA16 IS: Recent results in cooperative control of multi-agent systems	TuB16 IS: Distributed Learning and Control for Network Systems
17	3406	MoB17 IS: Advances in Control and Optimization of Networked Systems		TuA17 IS: Recent Advances of Networked Control Systems	TuB17 IS: Multi-Agent Systems: Modeling and Control
18	3407	MoB18 IS: Analysis, Control and Applications of Complex Network Systems (3)		TuA18 IS: Analysis and Control for Multi-scale Systems	TuB18 IS: Cooperative Control and Optimization on Networked Systems
19	3408	MoB19 IS: Intelligent Controls, Diagnosis and Health Management of Aero-engines (2)		TuA19 IS: Sensor-Based Robotic Control and Manipulation	TuB19 IS: Deep Learning and Intelligent Robotic System
20	3409	MoB20 IS: Recent Advances on Data-driven Techniques for Control and Monitoring		TuA20 IS: Distributed Space-based Systems and Swarm Intelligence	TuB20 IS: Intelligent Data Analysis and Its Applications
21	3410	MoB21 IS: Hybrid Systems and ASSR (2)		TuA21 IS: Quantum Control and Quantum Learning	TuB21 IS: Fractional applications
22	3411	MoB22 IS: Control Technology for Intelligent Wearable System		TuA22 IS: Nonlinear and Adaptive Control with Applications	TuB22 IS: Control and optimization of nonlinear systems
23	3412	MoB23 IS: Advanced Control of Time-Delay System		TuA23 IS: U-model Based Control with System identification	TuB23 IS: Advances in Fault Diagnosis and Fault-tolerant Control in 2018-2019
24	3413	MoB24 IS: Recent Advances in Machine Learning for Control Applications		TuA24 IS: Intelligent Coordination of Heterogeneous Unmanned Swarming Systems	TuB24 IS: Automated Connected Vehicles: Cyber-Physical Security & Control
25	3415	MoB25 IS: Stochastic Optimal Control Theory and Related Fields		TuA25 IS: New filtering and fault detection methods for stochastic complex systems	TuB25 IS: Modeling and Active Vibration Control Design of Flexible Structure Systems and their Applications
26	3416	MoB26 IS: Intelligent Optimization Control of Urban Sewage Treatment		TuA26 IS: Nonlinear/Switching Control and its Applications	TuB26 IS: New Progress on Analysis and Design of Switched and Interconnected Systems
27	3418	MoB27 IS: Recent Advances in Stochastic Switching Systems		TuA27 IS: Iterative Method in Control System Design	TuB27 IS: Analysis and Control of Fractional-Order and Memristive Systems

Rooms 3301-3315 are located on the 3rd floor of Block 3, and Rooms 3401-3418 are on the 4th floor of Block 3. The area for Poster Sessions is near the Century Convention Hall on the 2nd floor of Block 4.

Technical Program

Sunday, July 28, 2019

PL1	9:00-10:00	Century Convention Hall, L2, Block 4	Kou, Chunhai	Donghua Univ.
大会报告1				
Plenary Lecture 1				
Chair: Guo, Lei		Chinese Academy of Sciences		
► PL-1	9:00-10:00		Zhang, Yunong	Sun Yat-sen Univ.
<i>Conundrums in Everyday Stochastic Control: the Excitation Price of Performance</i>			Liu, Xiao	Sun Yat-sen Univ.
Bitmead, Robert R.		Univ. of California-San Diego, USA	Shi, Yang	Sun Yat-sen Univ.
► PL2	10:20-11:20	Century Convention Hall, L2, Block 4	Mao, Mingzhi	Sun Yat-sen Univ.
大会报告2			Tan, Ning	Sun Yat-sen Univ.
Plenary Lecture 2				
Chair: Guan, Xiping		Shanghai Jiao Tong Univ.		
► PL-2	10:20-11:20			14:10-14:30
<i>High-performance Detection Technology and Application</i>			Ling, Yihong	SYSU
Gui, Weihua		Central South Univ., China	Zhang, Deyang	Sun Yat-sen Univ.
► PL3	11:20-12:20	Century Convention Hall, L2, Block 4	Zhang, Jianxin	Peking Univ.
大会报告3			Qiu, Binbin	Sun Yat-sen Univ.
Plenary Lecture 3			Zhang, Yunong	Sun Yat-sen Univ.
Chair: Zhang, Ji-Feng		Chinese Academy of Sciences		
► PL-3	11:20-12:20			14:30-14:50
<i>Integration of Control, Communications, and Computing in Networked Systems</i>			Gong, Zhongyi	Sat. of Automatic Control & Mechatronics
Wang, Le Yi		Wayne State University, USA	Ma, Jian	Daimler China
SuA00	13:30-15:35	Dongguan Hall, L2, Block 4		
Award Session: Guan Zhao-Zhi Award Finalist			Lin, Lin	Southeast Univ.
Chair: Chen, Jie		Beijing Inst. of Tech.	Cao, Jinde	Southeast Univ.
Co-Chair: Zhao, Qianchuan		Tsinghua Univ.		
► SuA00-1	13:30-13:55			15:10-15:30
<i>Distributed Output Feedback Consensus of Uncertain Nonlinear Multi-Agent Systems with Limited Data Rate</i>			Wang, Sheng-Guo	Univ. of North Carolina - Charlotte
Ran, Maopeng		Nanyang Technological Univ.		
Xie, Lihua		Nanyang Technological Univ.		
► SuA00-2	13:55-14:20			
<i>Global Consensus of Multi-Agent Systems with Intermittent Directed Communication in the Presence of Actuator Saturation</i>			Chair: Shan, Jinjun	York Univ.
Xie, Yijing		Shanghai Jiao Tong Univ.	Co-Chair: Chen, Xin	Beijing Inst. of Space Long March Vehicle
Lin, Zongli		Univ. of Virginia		
► SuA00-3	14:20-14:45			13:30-13:50
<i>An Improved Version of DMOEA-ε C for Many-objective Optimization Problems: IDMOEA-ε C</i>			Chen, Xin	Beijing Inst. of Space Long March Vehicle
Li, Juan		Beijing Inst. of Tech.	Xu, Chuang	Harbin Inst. of Tech.
Xin, Bin		Beijing Inst. of Tech.	Wu, Baolin	Harbin Inst. of Tech.
► SuA00-4	14:45-15:10		Xu, Hanzhong	Beijing Inst. of Space Long March Vehicle
<i>Exact Computation of Delay Margin by PID Control: It Suffices to Solve A Unimodal Problem!</i>			Jiao, Shenghai	Beijing Inst. of Space Long March Vehicle
Chen, Jianqi		City Univ. of Hong Kong		
Ma, Dan		Northeastern Univ.		
Xu, Yong		Guangdong Univ. of Tech.		
Chen, Jie		City Univ. of Hong Kong		
► SuA00-5	15:10-15:35			13:50-14:10
<i>Linear Quadratic Mean Field Social Control with Random Coefficients and Common Noise</i>			Chen, Ti	York Univ.
Wang, Bingchang		Shandong Univ.	Shan, Jinjun	York Univ.
SuA01	13:30-15:30	Room 3301, Block 3		
Regular Session: Systems Theory and Control Theory (1)				14:10-14:30
Chair: Zhang, Yunong		Sun Yat-sen Univ.	► SuA02-3	
Co-Chair: Wang, Sheng-Guo		Univ. of North Carolina - Charlotte	<i>A Robust Adaptive Cooperative Control Method for Actuation Wheelsets of High-Speed Train</i>	
► SuA01-1	13:30-13:50		Lu, Lingyu	Chinese, Beijing JiaoTong Univ.
<i>Approximate Controllability Analysis on Nonlinear Fractional Evolution Equations</i>			Cai, Wenchuan	Beijing Jiaotong Univ.
Cai, Ruiyang		Donghua Univ.	Li, Danyong	Beijing Jiaotong Univ.
Chen, Yangquan		Univ. of California		
► SuA02-4	14:30-14:50			14:50-15:10
<i>High-order LTD Based Predictive LADRC for Uncertain Systems with Time Delay</i>			Gao, Yang	Naval Aeronautical Univ.
			Wu, Wenhui	Naval Aeronautical Univ.
			Zhang, Yang	Naval Aeronautical Univ.
► SuA02-5				<i>Relative Position Tracking and Attitude Synchronization of Cooperative Spacecraft Rendezvous and Docking Based on Small-gain Theorem</i>

Liao, Fei Zhang, Sheng	USTC China Aerodynamics Research & Development Center	Xia, Xiaohua	Univ. of Pretoria
► SuA02-6	15:10–15:30 <i>Extremum Seeking Control in the Presence of Actuator Hysteresis</i>	► SuA04-4 <i>Global Optimization for Stochastic Programming via Sequential Monte Carlo Sampling</i>	14:30–14:50 Nanchang Univ.
Yang, Yuxin Tan, Ying Tan, Qingyuan Chen, Xiang Oetomo, Denny	The Univ. of Melbourne The Univ. of Melbourne Univ. of Windsor Univ. of Windsor The Univ. of Melbourne	Ni, Wei	
SuA03	13:30–15:30 Regular Session: System Modeling and Identification (1)	► SuA04-5 <i>Traffic Flow Guidance and Optimization of Connected Vehicles Based on Swarm Intelligence</i>	14:50–15:10 Beijing Jiaotong Univ.
Chair: Gu, Guoxiang Co-Chair: Mi, Wen	Louisiana State Univ. Univ. of Electronic Sci. & Tech. of China	Li, Qiyuan Shangguan, Wei Cai, Bai-Gen Chai, Linguo	Beijing Jiaotong Univ. Beijing Jiaotong Univ. Beijing Jiaotong Univ. Beijing Jiaotong Univ.
► SuA03-1	13:30–13:50 <i>Multi-dimensional Local Weighted Regression Ship Motion Identification Modeling Based on Particle Swarm Optimization</i>	► SuA04-6 <i>Satellite Mission Planning for Moving Targets Observation via Data Driven Approach</i>	15:10–15:30 Beihang Univ.
Zhang, Zhao Ren, Junsheng Wang, Guangxing	Dalian Maritime Univ. Dalian Maritime Univ. Dalian Maritime Univ.	Wen, Xin Liu, Mingmin Hu, Qinglei	Shanghai Aerospace Control Tech. Inst. Beihang Univ.
► SuA03-2	13:50–14:10 <i>A New Method for Identifying Error-In-Variable System Models</i>	SuA05	13:30–15:30 Room 3306, Block 3 Regular Session: Cloud Computing and Computational Intelligence
Kang, Hyundeok Gu, Guoxiang Zheng, Wei Xing	Louisiana State Univ. Louisiana State Univ. Western Sydney Univ.	Chair: Wang, Ning Co-Chair: Si, Chengyong	Zhejiang Univ. Univ. of Shanghai for Sci. & Tech.
► SuA03-3	14:10–14:30 <i>Improved Particle Filter Based on the Grey Wolf Optimizer</i>	► SuA05-1 <i>Adaptive Cuckoo Search Algorithm for Parameter Estimation of Heavy Oil Thermal Cracking Model</i>	13:30–13:50 Zhejiang Univ.
Lv, Donghui Wang, Jiongqi He, Dingjie Hou, Bowen He, Zhangming Liu, Xue	National Univ. of Defense Tech. National Univ. of Defense Tech. National Univ. of Defense Tech. National Univ. of Defense Tech. National Univ. of Defense Tech. PLA 91550	Chen, Yiping Wang, Ning	Zhejiang Univ.
► SuA03-4	14:30–14:50 <i>System Identification by Using Adaptive Fourier Decomposition Method with Polynomials</i>	► SuA05-2 <i>A New Optimization Algorithm and Its Comparison on Traditional Optimization Algorithms</i>	13:50–14:10 Jishou Univ.
Mi, Wen	Univ. of Electronic Sci. & Tech. of China	Yin, Yumin Liao, Bolin Li, Shuai	Jishou Univ. Stevens Inst. of Tech.
► SuA03-5	14:50–15:10 <i>Decentralized Adaptive Synchronization of A Class of Discrete-time and Nonlinearly Parametrized Coupled Multi-agent Systems</i>	► SuA05-3 <i>User Priority Aware and Cost Constrained Workflow Scheduling in Clouds</i>	14:10–14:30 Beijing Inst. of Tech.
Zhang, Xinghong Li, Chengfang Zhang, Chao Chen, Huibo	Henan Inst. of Technolog Henan College of Transportation Henan Inst. of Tech. Henan Inst. of Tech.	Chen, Yuehong Xia, Yuanqing Yan, Ce Gao, Runze	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.
► SuA03-6	15:10–15:30 <i>Modeling of Hysteresis for Piezo-driven Stages Using A Rate-dependent Krasnosel'skii-Pokrovskii Model</i>	► SuA05-4 <i>Comparison of Two Constraint Handling Techniques: An Empirical Study</i>	14:30–14:50 Tongji Univ., China
Pan, Wei Xu, Rui Zhou, Miaolei	Jilin Univ. Jilin Univ. Jilin Univ.	Si, Chengyong Shen, Jianqiang Zheng, Jiajun Hua, Ziying Wang, Lei	Univ. of Shanghai for Sci. & Tech. Univ. of Shanghai for Sci. & Tech. Univ. of Shanghai for Sci. & Tech. Univ. of Shanghai for Sci. & Tech. Tongji Univ., China
SuA04	13:30–15:30 Room 3305, Block 3 Regular Session: Optimization and Scheduling (1)	► SuA05-5 <i>An Architecture of Cloud Control System and Its Application in Greenhouse Environment</i>	14:50–15:10 Northeastern Univ.
Chair: Xiang, Linying Co-Chair: Ni, Wei	Northeastern Univ. at Qinhuangdao Nanchang Univ.	Guan, Shouping Dong, Xiao	Northeastern Univ. Northeastern Univ.
► SuA04-1	13:30–13:50 <i>A Simplified Prediction-correction Algorithm for Time-varying Convex Optimization</i>	► SuA05-6 <i>Identification and Localization Method of the Insulator Method Based on Three Dimensional Point Cloud Modeling</i>	15:10–15:30 China Univ. of GeoSci. (Wuhan)
Lin, Zhicong Chen, Fei Xiang, Linying Guo, Ge	Xiamen Univ. Northeastern Univ. Northeastern Univ. at Qinhuangdao Dalian Maritime Univ.	Chen, Xin Jian, Xu Xiao, Zhe	China Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci. (Wuhan) China Univ. of GeoSci.
► SuA04-2	13:50–14:10 <i>An Extended Vehicle Scheduling Model Considering Interests of Both Passengers and Bus Operators</i>	SuA06	13:30–15:30 Room 3307, Block 3 Regular Session: Motion Control (1)
Shang, Hua-Yan Liu, Yan Ping	Capital Univ. of Economics & Business Capital Univ. of Economics & Business	Chair: Zhang, Aihua Co-Chair: Chen, Ziyin	Shanghai Univ. of Engineering Sci. Beijing Inst. of Space Mechanics & Electricity
► SuA04-3	14:10–14:30 <i>Optimal Dispatch of Grid and Natural Gas Generator Power in A Scheduled Compressed Natural Gas Fuelling Station</i>	► SuA06-1 <i>Output Feedback Control of An Active Magnetic Bearing System Based on Adaptive Command Filtered Backstepping</i>	13:30–13:50 Otto-von-Guericke-Univ. Magdeburg
Kagiri, Charles Zhang, Lijun	Univ. of Pretoria Univ. of Pretoria	Chen, Ziyin Lin, Zhe Li, Yang	Beijing Inst. of Space Mechanics & Electricity Beijing Inst. of Space Mechanics & Electricity Otto-von-Guericke-Univ. Magdeburg

► SuA06-2 <i>USV Motion Control Based on Nonsingular Terminal Sliding Mode Method with Unknown Disturbances</i>	13:50–14:10	Yang, Hailong Yang, Zuyuan Yang, Hao Xie, Yuhui	Guangdong Univ. of Tech. Guangdong Univ. of Tech. Guangdong Univ. of Tech. Guangdong Univ. of Tech.	15:10–15:30
Li, Mingcong Guo, Chen Yuan, Yi Guo, Muzhuang	Dalian Maritime Univ. Dalian Maritime Univ. Dalian Maritime Univ. Dalian Maritime Univ.			
► SuA06-3 <i>Closed-Loop RBF-PID Control Method for Position and Attitude Control of Stewart Platform</i>	14:10–14:30			
Huang, Tianyu Shan, Liang Li, Jun Zhen, Yu Liu, Cheng-Lin	Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Jiangnan Univ.			
► SuA06-4 <i>RBF Dynamic Surface Sliding-mode Output Feedback Tracking Control for Fully Actuated Ships Based on ESO</i>	14:30–14:50			
Zhang, Aihua Qian, Qian Zhang, Jie	Shanghai Univ. of Engineering Sci. Shanghai Univ. of Engineering Sci. Shanghai Univ. of Engineering Sci.			
► SuA06-5 <i>Trajectory Planning and Tracking Control of Vehicle Obstacle Avoidance based on Optimization Control</i>	14:50–15:10			
Wang, Yinan Qu, Ting Chu, Jianxin Yu, Shuyou Guo, Hongyan	Jilin Univ. Jilin Univ. Jilin Univ. Jilin Univ. Jilin Univ.			
► SuA06-6 <i>Identification of the Precision Moving Stage Based on Degeneration Input</i>	15:10–15:30			
Zheng, Haiyang Zhang, Delong Zhu, Zhang Tao, Huang Xie, Yangqiu	Guangxi Univ. Guangxi Univ. Guangxi Univ. Guangxi Univ. Guangxi Univ.			
SuA07 13:30–15:30 Room 3308, Block 3				
Regular Session: Signal Processing and Information Fusion (1)				
Chair: Yang, Zuyuan Co-Chair: Park, Poogyeon	Guangdong Univ. of Tech. POSTECH			
► SuA07-1 <i>Novel Approach of Electrical Impedance Tomography for Abdomen Lesion Imaging Using Ultrasound Reflection Information</i>	13:30–13:50			
Liu, Hao Zhao, Shu Tan, Chao Dong, Feng	Tianjin Univ. Chinese Acad. Medical Sci. Tianjin Univ. Tianjin Univ.			
► SuA07-2 <i>A Fast Hybrid Regularization Method for Electrical Impedance Tomography Based on Elastic-net Optimization</i>	13:50–14:10			
Sun, Kai Xu, Yanbin Ren, Shangjie Dong, Feng	Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ.			
► SuA07-3 <i>Linear Set-Membership Approach with l_∞-bounded Disturbances</i>	14:10–14:30			
Foo, Yung Kuan	Hebei Maisan Chemical Co., Limited			
► SuA07-4 <i>The Kp Index Nowcast Method Based on Neural Network</i>	14:30–14:50			
Fu, Mengyin Kang, Jiapeng Liu, Tong Li, Xingyu Wang, Kai	Beijing Inst. of Tech. BIT Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.			
► SuA07-5 <i>A Robust Active Noise Control System with Stepsize Scaler in Impulsive Noise Environments</i>	14:50–15:10			
Kim, Dongwoo Lee, Minho Park, Poogyeon	POSTECH Pohang Univ. of Sci. & Tech. POSTECH			
SuA08 13:30–15:30 Room 3309, Block 3				
Regular Session: Navigation and Guidance (1)				
Chair: Liu, Peijia Co-Chair: Xiong, Yunqiang	The 713th Research Inst. of China Shipbuilding Industry Corporation Beijing Aerospace Automatic Control Inst.			
► SuA08-1 <i>A Pedestrian Heading Online Compensation Method Research for A Waist-Worn Indoor Inertial Navigation System</i>	13:30–13:50			
Xiong, Yunqiang Li, Shuangxi Zhao, Kun Chen, Yicheng Zhang, Yi Dong, Chun	Beijing Aerospace Automatic Control Inst. Beijing Aerospace Automatic Control Institut. Beijing Aerospace Automatic Control Inst. Sci. & Tech. on Aerospace Intelligent Control Laboratory Beijing Aerospace Automatic Control Inst. Beijing Aerospace Automatic Control Inst.			
► SuA08-2 <i>A Covariance Matching Based Adaptive MCKF Algorithm</i>	13:50–14:10			
Chen, Hang Zhang, Weiguo Yan, Danghui	Northwestern Polytechnical Univ. Northwestern Polytechnical Univ. Northwestern Polytechnical Univ.			
► SuA08-3 <i>Real-time Safe Navigation Strategy for Mobile Robots in 3D: A Deforming Path Approach</i>	14:10–14:30			
Elmokadem, Taha	Univ. of New South Wales			
► SuA08-4 <i>A Hybrid Reactive Navigation Strategy for A Non-holonomic Mobile Robot in Cluttered Environments</i>	14:30–14:50			
Zhang, Jian	Univ. of New South Wales			
► SuA08-5 <i>A Calibration Method for DVL Measurement Errors Based on Observability Analysis</i>	14:50–15:10			
Liu, Peijia	The 713th Research Inst. of China Shipbuilding Industry Corporation			
Zhao, Shiping	The 713th Research Inst. of China Shipbuilding Industry Corporation			
Qin, Liping	The 713th Research Inst. of China Shipbuilding Industry Corporation			
Ma, Yong	The 713th Research Inst. of China Shipbuilding Industry Corporation			
Lu, Bingju	The 713th Research Inst. of China Shipbuilding Industry Corporation			
Hou, Dongdong	The 713th Research Inst. of China Shipbuilding Industry Corporation			
► SuA08-6 <i>Gravity Aided Inertial Navigation Path Planning Algorithm Based on Underwater Vehicle Constraint and Bezier Curve</i>	15:10–15:30			
Shi, Lei Zhang, Wenzhe Cheng, Yuan Deng, Zhihong	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.			
SuA09 13:30–15:30 Room 3311, Block 3				
Regular Session: Adaptive Control and Learning Control (1)				
Chair: Hou, Zhongsheng Co-Chair: Yang, Xiong	Beijing Jiaotong Univ. Tianjin Univ.			
► SuA09-1 <i>Adaptive Controller Design for Overhead Cranes with Moving Sliding Surface</i>	13:30–13:50			
Gu, Xiutao Xu, Weimin Zhang, Mingming Zhang, Wanpeng Wang, Yongshuang Chen, Tianyu	Shanghai Maritime Univ. Shanghai Maritime Univ. Shanghai Maritime Univ. Shanghai Maritime Univ. Shanghai Maritime Univ. Shanghai Maritime Univ.			
► SuA09-2	13:50–14:10			

<i>Iterative Learning Based Model Free Adaptive Control for Subway Trains with Speed and Input Constraints</i>	Liu, Genfeng Hou, Zhongsheng	Beijing Jiaotong Univ. Beijing Jiaotong Univ.	Wang, Jieyu Gao, Bingzhao Chen, Hong	Jilin Univ. Jilin Univ. Jilin Univ.	
► SuA09-3		14:10–14:30	► SuA10-6	15:10–15:30	
<i>Iterative Learning Control for Linear Discrete Hyperbolic Distributed Parameter Systems under Randomly Varying Trial Lengths</i>	Dai, Xisheng Zhang, Weijie Wang, Su	Guangxi Univ. of Sci. & Tech., Guangxi Univ. of Sci. & Tech. Guangxi Univ. of Sci. & Tech.	<i>Adaptive Non-singular Terminal Sliding Mode Control for Robotic Manipulator</i>	School of Automation Nanjing Univ. of Posts & Telecommunications Nanjing Univ. of Posts & Telecommunications Nanjing Normal Univ.	
► SuA09-4		14:30–14:50	Li, Zeyun Zhao, Jing Wang, Xian Xie, Fei	School of Automation Nanjing Univ. of Posts & Telecommunications Nanjing Univ. of Posts & Telecommunications Nanjing Normal Univ.	
<i>Adaptive Control of Flexible Joint Manipulators with Parameter Convergence</i>	Li, Chang Li, Yuling Yin, Yixin Zhang, Sen Dong, Jie	Univ. of Sci. & Tech. Beijing Univ. of Sci. & Tech. Beijing Univ. of Sci. & Tech. Beijing, China Univ. of Sci. & Tech. Beijing Univ. of Sci. & Tech. Beijing, China	► SuA11	13:30–15:30	
► SuA09-5		14:50–15:10	Chair: Zuo, Zhiqiang Co-Chair: Meng, Ziyang	Room 3313, Block 3 Regular Session: Multi-Agent Systems and Distributed Control (1)	
<i>Neural Network Tracking Control of Unknown Servo System with Approximate Dynamic Programming</i>	Lv, Yongfeng Ren, Xuemei Zeng, Tianyi Li, Linwei Na, Jing	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Kunming Univ. of Sci. & Tech.	► SuA11-1	13:30–13:50	
► SuA09-6		15:10–15:30	<i>Event-triggered Based Scaled Consensus for Multi-agent Systems</i>	► SuA11-2	13:50–14:10
<i>Approximate Optimal Event-Triggered Control of Discounted-Cost Non-linear Systems</i>	Yang, Xiong He, Haibo	Tianjin Univ. Univ. of Rhode Island	Wu, Xihui Mu, Xiaowu	<i>Control of Flying Robots for Monitoring of Moving Objects</i>	13:50–14:10
SuA10	13:30–15:30	Room 3312, Block 3	Huang, Hailong Savkin, Andrey	Huang, Hailong Savkin, Andrey	14:10–14:30
Regular Session: Control Design	Chair: Yu, Huazhi Co-Chair: Zhang, Enkang	Jilin Univ. Harbin Engineering Univ.	► SuA11-3	14:10–14:30	
► SuA10-1		13:30–13:50	<i>Finite-Time Synchronization of Nonlinear Multi-Agent Systems with Prescribed Performance</i>	► SuA11-4	14:30–14:50
<i>一种智能控制器设计及其应用</i>	Feng, Jiajia Wang, Zuo-Wei	Beijing Inst. of Control Engineering Beijing Inst. of Control Engineering, Chinese Acad. of Space Tech.	Guo, Yukang He, Shude Dai, Shi-Lu	<i>Distributed Leader-following Velocity-free Coordinated Attitude Tracking Control for Multiple Spacecraft</i>	14:30–14:50
► SuA10-2		13:50–14:10	Zhu, Zhihao Guo, Yu Gao, Zhi	Zhu, Zhihao Guo, Yu Gao, Zhi	Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Yancheng Inst. of Tech.
<i>Algorithm Optimization of Er-doped Superfluorescent Fiber Source Feedback Control Module</i>	Zhang, Enkang Xue, Bing Yang, Liu Liu, Yuanheng Gao, Zhongxing Zhang, Yonggang	Harbin Engineering Univ. Harbin Engineering Univ. Harbin Engineering Univ. Harbin Engineering Univ. Harbin Engineering Univ. Harbin Engineering Univ.	► SuA11-5	14:50–15:10	
► SuA10-3		14:10–14:30	Zou, Yao Huang, Bomin Meng, Ziyang Ren, Wei	Zou, Yao Huang, Bomin Meng, Ziyang Ren, Wei	Beihang Univ. Xiamen Univ. Tsinghua Univ. Univ. of California, Riverside
<i>Backstepping Controller for Trajectory Tracking of Wheeled Mobile Robot Based on Particle Swarm Optimization</i>	Dai, Yongwen Jia, Ding Guo, Lun Ye, Shengwang Luo, Dan Hu, Wenshan Peng, Weiping	Sinohydro Bureau 7 Co., Ltd Sinohydro Bureau 7 Co., Ltd Sinohydro Bureau 7 Co., Ltd Wuhan Univ. Wuhan Univ. Wuhan Univ. Wuhan Univ.	► SuA11-6	15:10–15:30	
► SuA10-4		14:30–14:50	Zuo, Zhiqiang Cao, Xiong Wang, Yijing	Zuo, Zhiqiang Cao, Xiong Wang, Yijing	Tianjin Univ. Tianjin Univ. Tianjin Univ.
<i>Multi-UAV Formation Controller Design with Uncertain Dynamics</i>	Zhang, Jialong Yan, Jianguo Xiao, Bing Zhang, Pu Yang, Ge Lv, Maolong	Northwestern Polytechnical Univ. Northwestern Polytechnical Univ. Northwestern Polytechnical Univ. Northwestern Polytechnical Univ. Northwestern Polytechnical Univ. Delft Univ. of Tech.	SuA12	13:30–15:30	
► SuA10-5		14:50–15:10	Chair: Wang, Yijing Co-Chair: Yue, Ming	Chair: Wang, Yijing Co-Chair: Yue, Ming	Room 3315, Block 3 Regular Session: Vehicle Control and Transportation Systems (1)
<i>Clutch Pressure Control Based on PWM High Speed On-Off Valve</i>	Yu, Huazhi	Jilin Univ.	► SuA12-1	13:30–13:50	
► SuA12-2		13:50–14:10	<i>Toward Hazard Reduction of Road Vehicle After Tire Blowout: A Driver Steering Assist Control Strategy</i>	► SuA12-3	14:10–14:30
<i>Robust Control of Farming Tractors with Dynamic Disturbances Based on Sliding Mode Observers</i>	Sun, Xuewei Zhu, Fanglai Yuan, Hongliang	Tongji Univ. Electronics & Information Engineering Tongji Univ.	<i>Lane-Associated MPC Path Planning for Autonomous Vehicles</i>	Zuo, Zhiqiang Yang, Xu Zhang, Zhicheng Wang, Yijing	Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ.

► SuA12-4	14:30–14:50		SuA14	13:30–15:30	Room 3402, Block 3
Detecting Abnormal Driving Behaviors by Smartphone Sensors Based on Multi-Feature Convolutional Neural Network		Regular Session: Neural Networks and Deep Learning (1)			
Wang, Renjia	Nanjing Normal Univ.	Chair: Jin, Long			Lanzhou Univ.
Xie, Fei	Nanjing Normal Univ.	Co-Chair: Gu, Hao			Univ. of Shanghai for Sci. & Tech.
Zhang, Bin	NARI Tech. Co., LTD				
Liu, Wenhui	Nanjing Normal Univ.				
Qian, Weixing	Nanjing Normal Univ.				
Wang, Xian	Nanjing Univ. of Posts & Telecommunity				
► SuA12-5	14:50–15:10		► SuA14-1	13:30–13:50	
Path-Tracking for Autonomous Vehicles with On-line Estimation of Axle Cornering Stiffnesses		EEG Based Mental Workload Assessment via A Hybrid Classifier of Extreme Learning Machine and Support Vector Machine			
Chu, Ziyun	SouthEast Univ.	Gu, Hao			Univ. of Shanghai for Sci. & Tech.
Chen, Nan	Southeast Univ.	Yin, Zhong			Univ. of Shanghai for Sci. & Tech.
Zhang, Ning	Southeast Univ.	Zhang, Jianhua			East China Univ. of Sci. & Tech.
Li, Guangmin	Southeast Univ.				
► SuA12-6	15:10–15:30		► SuA14-2	13:50–14:10	
Real-time Collision Avoidance Control for Unmanned Surface Vehicle Based on Velocity Resolution Method		Generative Adversarial Network Based Data Augmentation for PV Module Defect Pattern Analysis			
Sun, Xiaojie	Dalian Maritime Univ.	Chen, Lushen			Zhejiang Univ.
Wang, Guofeng	Dalian Maritime Univ.	Yang, Qiang			Zhejiang Univ.
Fan, Yunsheng	Dalian Maritime Univ.	Yan, Wenjun			CEE, Zhejiang Univ.
Mu, Dongdong	Dalian Maritime Univ.				
Qiu, Bingbing	Inst. of Information Sci. & Tech.				
Liu, Jian	Dalian Maritime Univ.				
SuA13	13:30–15:30	Room 3401, Block 3	► SuA14-3	14:10–14:30	
Regular Session: Aircraft Control (1)		A Three-dimensional Detector Based on Focal Loss for Pulmonary Nodules Detection			
Chair: Wang, Xinglong	China Acad. of Space Tech.	Wang, Lei			Beijing Inst. of Tech.
Co-Chair: Zhang, Sheng	China Aerodynamics Research & Development Center	Dai, Yaping			Beijing Inst. of Tech.
		Jia, Zhiyang			Beijing Inst. of Tech.
► SuA13-1	13:30–13:50		Nie, Yongkang		Chinese PLA General Hospital
Aircraft Post-stall Maneuver Control Using Attitude Feedback Linearization		Liu, Liang			N/A
Zhang, Sheng	China Aerodynamics Research & Development Center				
Ji, Li	China AerodynamicS Research & Development Center				
Qian, Weiqi	China Aerodynamics Research & Development Center				
He, Kaifeng	China Aerodynamics Research & Development Center				
► SuA13-2	13:50–14:10		► SuA14-4	14:30–14:50	
Quadrotor Transporting Cable Suspended Load Using ADRC		A Comparative Study of Small Object Detection Algorithms			
Ping, Yuan	Tianjin Univ.	Wang, Jianhang			Beijing Inst. of Tech.
Qi, Juntong	Tianjin Univ.	Jiang, Sitan			Beijing Inst. of Tech.
Wu, Chong	EFY Intelligent Control	Song, Wenjie			Beijing Inst. of Tech.
► SuA13-3	14:10–14:30		Yang, Yi		Beijing Inst. of Tech.
Landing Control of Fixed-wing UAV Based on ADRC					
Zhu, Guojun	Tianjin Univ.	Li, Hongwei			Lanzhou Univ.
Qi, Juntong	Tianjin Univ.	Jin, Long			Lanzhou Univ.
Wu, Chong	EFY Intelligent Control	Zhang, Rui			China Research Inst. of Radiowave Propagation
► SuA13-4	14:30–14:50	Huang, Zhiguan			Guangzhou Sport Univ.
Super-maneuver Control of Thrust Vector Aircraft Based on Nonlinear Dynamic Inversion		Liu, Mei			Lanzhou Univ.
Li, Yongfeng	Northwestern Polytechnical Univ.	Zhang, Jiliang			Lanzhou Univ.
Zhang, Weiguo	Northwestern Polytechnical Univ.	Shi, Yang			Sun Yat-sen Univ.
Shi, Jingping	Northwestern Polytechnical Univ.				
► SuA13-5	14:50–15:10				
Trajectory Tracking and Vibration Suppression of Spacecraft Combination Connected by A Space Manipulator					
Wang, Xinglong	China Acad. of Space Tech.				
Zhou, Zhicheng	China Acad. of Space Tech.				
Chen, Shiming	China Acad. of Space Tech.				
Wang, Ran	China Acad. of Space Tech.				
► SuA13-6	15:10–15:30				
A Step-Switching Coordinate Strategy for AHV-VGI Based on Nonsingular Terminal Sliding Mode Control					
Dou, Lijian	Tianjin Univ.				
Du, Miaoqiao	Tianjin Univ.				
Wang, Yueping	AVIC Xi'an Flight Automatic Control Research Inst.				
Su, Xiaotong	Tianjin Univ.				
SuA14	13:30–15:30	Room 3402, Block 3	► SuA15-1	13:30–13:50	
Regular Session: Neural Networks and Deep Learning (1)		A Vision Defect Detection Algorithm Based on Topological Mapping for High-Resolution Flexible Integrated Circuit Substrates			
Chair: Jin, Long		Zhong, Zhiyan			South China Univ. of Tech.
Co-Chair: Gu, Hao		Hu, Yueming			South China Univ. of Tech.
► SuA15-2	13:50–14:10				
A 3D Vehicle Recognition System Based on Point Cloud Library					
Wei, Shuang		Wei, Shuang			Southeast Univ.
Niu, Dan		Niu, Dan			Southeast Univ.
Li, Qi		Li, Qi			Southeast Univ.
Chen, Xisong		Chen, Xisong			Southeast Univ.
Liu, Jinbo		Liu, Jinbo			Nanjing Sciyon Automation Group Co., Ltd
► SuA15-3	14:10–14:30				
A New Quality Control Method for Cotton Spinning					
Shao, Jingfeng		Shao, Jingfeng			Xi'an Polytechnic Univ.
► SuA15-4	14:30–14:50				
Design of Air Source Heat Pump Intelligent Temperature Control System Based on Adaptive Fuzzy PID Control					
Gao, Long		Gao, Long			Nantong Univ.
Yang, Yi		Yang, Yi			Nantong Univ.
Ren, Xiaolin		Ren, Xiaolin			Nantong Univ.

Chen, Jianbo Mei, Tianxiang Zhang, Guihong Jiao, Ziyun Han, Qingqing	Nantong Univ. Nantong Univ. Nantong Univ. Nantong Univ. Nantong Univ.		13:50–14:10
► SuA15-5 <i>Vehicle License Plate Recognition Combing MSER and Machine Learning In A Complex Environment</i>		14:50–15:10	
Li, Yongsheng Niu, Dan Chen, Xisong Li, Tao Li, Qi Xue, Yufeng	Southeast Univ. Southeast Univ. Southeast Univ. Jiangsu Juli Intelligent Machinery Corporation Southeast Univ. Southeast Univ.		Nanyang Technological Univ. Nanyang Techonological Univ. Tsinghua Univ. Xi'an Univ. of Tech.
SuA16 13:30–15:30	Room 3405, Block 3		14:10–14:30
Invited Session: Recent Advances in distributed control and optimization of multi-agent systems			
Organizer: Meng, Ziyang Organizer: Yang, Tao Organizer: Wu, Junfeng Chair: Yang, Tao Co-Chair: Wu, Junfeng	Tsinghua Univ. Univ. of North Texas KTH,Royal Inst. of Tech. Univ. of North Texas KTH,Royal Inst. of Tech.		Hong Kong Univ. of Sci. & Tech. Hong Kong Univ. of Sci. & Tech. Guangdong Polytechnic Normal Univ. Hong Kong Univ. of Sci. & Tech.
► SuA16-1 <i>Spherical Formation Flight of UAVs with Bidirectional Communication Delays</i>		13:30–13:50	14:30–14:50
Ai, Xiang Chen, Yang-Yang	Southeast Univ. Southeast Univ., Nanjing	Xu, Weiwei Li, Hongran Zhang, Jian Zhu, Yanzheng Zhang, Heng	Huaihai Inst. of Tech. Huaihai Inst. of Tech. Huaihai Inst. of Tech. Shandong Univ. of Sci. & Tech. Huaihai Inst. of Tech.
► SuA16-2 <i>Event-Triggered Control for Consensus of Multi-Agent Systems with Nonlinear Output and Directed Topologies</i>		13:50–14:10	14:50–15:10
Yi, Xinlei Zhang, Shengjun Yang, Tao Wu, Junfeng Johansson, Karl Henrik	KTH Royal Inst. of Tech. Univ. of North Texas Univ. of North Texas KTH,Royal Inst. of Tech. Royal Inst. of Tech.	Li, Shuang Xia, Weiguo	Dalian Univ. of Tech. Dalian Univ. of Tech.
► SuA16-3 <i>Finite-Time-Consensus-Based Methods for Distributed Optimization</i>		14:10–14:30	15:10–15:30
Qu, Zihai Wu, Xuyang Lu, Jie	ShanghaiTech Univ. ShanghaiTech Univ. ShanghaiTech Univ.	Dong, Fei You, Keyou	Tsinghua Univ. Tsinghua Univ.
► SuA16-4 <i>Distributed Parameter Estimation under Event-triggered Communications</i>		14:30–14:50	SuA18 13:30–15:30
He, Xingkang Liu, Qian Wu, Junfeng Johansson, Karl Henrik	KTH Royal Inst. of Tech. Institution of Sys. Sci. KTH,Royal Inst. of Tech. Royal Inst. of Tech.	Room 3407, Block 3	Invited Session: Modeling, Control and Optimization of Complex Systems
► SuA16-5 <i>A Distributed Model Predictive Control Algorithm of Linear Systems over Time-Varying Directed Graphs</i>		14:50–15:10	Organizer: Du, Wenli Organizer: Zhong, Weimin Organizer: Tang, Yang Organizer: He, Wangli Chair: Tang, Yang Co-Chair: He, Wangli
Jin, Bo Li, Huiping Yan, Weisheng	Northwestern Polytechnical Univ. Northwestern Polytechnical Univ. Northwestern Politecnical Univ.		East China Univ. of Sci. & Tech. East China Univ. of Sci. & Tech.
► SuA16-6 <i>Semi-Global Output Consensus of Multi-Agent Systems Subject to Actuator Saturation: A Low and High Gain Approach</i>		15:10–15:30	► SuA18-1 <i>Consensus for Non-identical Euler-Lagrange Systems with Event-triggered Strategy</i>
Zhao, Zhiyun Shi, Hongbo	East China Univ. of Sci. & Tech. East China Univ. of Sci. & Tech.		Jin, Xin Tang, Yang
SuA17 13:30–15:30	Room 3406, Block 3		13:30–13:50
Invited Session: Recent advances in networked and secure control			
Organizer: Sui, Tianju Organizer: You, Keyou Chair: Sui, Tianju Co-Chair: You, Keyou	Dalian Univ. of Tech. Tsinghua Univ. Dalian Univ. of Tech. Tsinghua Univ.		► SuA18-2 <i>Dynamic Large-Scale Process Monitoring Based on Multi-block Slow Feature Analysis Integrated with Symmetric Kullback-Leibler Divergence and Support Vector Data Description</i>
► SuA17-1 <i>A Networked State Estimation Approach Immune to Passive Eavesdropper</i>		13:30–13:50	Jiang, Chao Zhang, Boya Zhong, Weimin Peng, Xin Li, Zhi
Sui, Tianju Marelli, Damian Sun, Xi-Ming You, Keyou	Dalian Univ. of Tech. Guangdong Univ. of Tech. Dalian Univ. of Tech. Tsinghua Univ.		13:50–14:10
SuA18 13:30–15:30	Room 3407, Block 3		► SuA18-3 <i>基于集成学习和迁移学习的乙烯裂解炉收率建模（长摘要）</i>
A <i>Ethylene Cracking Furnace Yield Modeling Method Based on Ensemble Learning and Transfer Learning (Extended Abstract)</i>			
Yu, Huijing Wang, Yifei Du, Wenli			► SuA18-4 <i>Cross-regional Data-driven Shared-Module Federated Modeling Method</i>
► SuA18-5 <i>Probabilistic Just-in-Time Learning with Variable Scale for Soft Sensor Development with Missing Data</i>		14:10–14:30	Xu, Jinjin Du, Wenli
Zhong, Weimin Huang, Haojie		14:30–14:50	14:50–15:10
			East China Univ. of Sci. & TecnoLOGY East China Univ. of Sci. & Tech. East China Univ. of Sci. & Tech.
			East China Univ. of Sci. & Tech. East China Univ. of Sci. & Tech.
			East China Univ. of Sci. & Tech. East China Univ. of Sci. & Tech.

Li, Zhi Peng, Xin	East China Univ. of Sci. & Tech. East China Univ. of Sci. & Tech.		14:10–14:30
► SuA18-6 <i>Event-Based Resilient Control</i>		15:10–15:30	
Zhang, Dandan Tang, Yang	East China Univ. of Sci. & Tech. East China Univ. of Sci. & Tech.		Chiba Univ. Chiba Univ. Chiba Univ. Chiba Univ.
SuA19 13:30–15:30	Room 3408, Block 3		
Invited Session: Distributed Optimization and Computation			
Organizer: Tang, Yutao	Beijing Univ. of Posts & Telecommunications		
Organizer: Liang, Shu	Univ. of Sci. & Tech. Beijing		
Chair: Tang, Yutao	Beijing Univ. of Posts & Telecommunications		
Co-Chair: Liang, Shu	Univ. of Sci. & Tech. Beijing		
► SuA19-1 13:30–13:50			
<i>Distributed Optimization over Unbalanced Graph: Integration of Surplus-Based Method and Push-DIGing Method</i>			
Liang, Shu	Univ. of Sci. & Tech. Beijing		Chiba Univ.
Cheng, Songsong	Acad. of Mathematics & Sys. Sci., Chinese Acad. of Sci.		Chiba Univ.
Peng, Kaixiang	Univ. of Sci. & Tech. Beijing		Chiba Univ.
► SuA19-2 13:50–14:10			
<i>A Distributed Resource Allocation Algorithm for Second-Order Multiagent Systems with Discrete-Time Communication</i>			
Wang, Lei	Central South Univ.		Chiba Univ.
Deng, Zhenhua	Central South Univ.		Chiba Univ.
► SuA19-3 14:10–14:30			
<i>Distributed Output Optimization for Discrete-time Linear Multi-agent Systems</i>			
Tang, Yutao	Beijing Univ. of Posts & Telecommunications		Chiba Univ.
Zhu, Hao	Beijing Univ. of Posts & Telecommunications		Chiba Univ.
Lv, Xiaoyong	Northeastern Univ. at Qinhuangdao		Chiba Univ.
► SuA19-4 14:30–14:50			
<i>Distributed Online Optimization with Gradient-free Design</i>			
Wang, Lingfei	Acad. of Sys. Sci., Chinese Acad. of Sci.		Tsinghua Univ.
Wang, Yinghui	Inst. of Sys. Sci.		Sun Yat-Sen Univ.
Hong, Yiguang	Chinese Acad. of Sci.		Peking Univ.
► SuA19-5 14:50–15:10			
<i>Distributed Nonsmooth Robust Resource Allocation with Cardinality Constrained Uncertainty</i>			
Wei, Yue	Beijing Inst. of Tech.		Southeast Univ.
Ding, Shuxin	Beijing Inst. of Tech.		
Fang, Hao	Beijing Inst. of Tech.		
Zeng, Xianlin	Beijing Inst. of Tech.		
Yang, Qingkai	Beijing Inst. of Tech.		
Xin, Bin	Beijing Inst. of Tech.		
► SuA19-6 15:10–15:30			
<i>Contraction Theory Based Control Law Design for Distributed Optimization Problem of Nonlinear Multi-agent Systems: Beyond High-gain and Backstepping</i>			
Li, Ranran	Northeastern Univ.		
SuA20 13:30–15:30	Room 3409, Block 3		
Invited Session: New Advances in Smart Grid Technology and Networked Control			
Organizer: Liu, Kang-Zhi	Chiba Univ.		
Organizer: Zanma, Tadanao	Chiba Univ.		
Chair: Liu, Kang-Zhi	Chiba Univ.		
Co-Chair: Zanma, Tadanao	Chiba Univ.		
► SuA20-1 13:30–13:50			
<i>On the Strongly Stabilizing MIMO Controllers</i>			
Zhang, Dayu	Gunma Univ.		Peking Univ.
Koyama, Daisuke	Gunma Univ.		Peking Univ.
Hashikura, Kotaro	Gunma Univ.		Peking Univ.
Suzuki, Takaaki	Gunma Univ.		George Mason Univ.
Yamada, Kou	Gunma Univ.		
► SuA20-2 13:50–14:10			
<i>A Robust Controller Design Method for Single-Phase PWM Inverter Based on Positive Realness</i>			
Akiba, Junpei	Chiba Univ.		
Koiwa, Kenta	Chiba Univ.		
Yoshida, Tomonori	Chiba Univ.		
Liu, Kang-Zhi	Chiba Univ.		
Zanma, Tadanao	Chiba Univ.		
► SuA20-3 14:10–14:30			
<i>An Accurate Model of Virtual Synchronous Generator for Grid-Connected Inverter</i>			
Inoo, Kouyou			
Koiwa, Kenta			
Liu, Kang-Zhi			
Zanma, Tadanao			
► SuA20-4 14:30–14:50			
<i>A Novel ESS Controller to Mitigate Wind Farm Output without Phase-lag</i>			
Ishii, Tomoya			Chiba Univ.
Koiwa, Kenta			Chiba Univ.
Liu, Kang-Zhi			Chiba Univ.
Zanma, Tadanao			Chiba Univ.
► SuA20-5 14:50–15:10			
<i>Optimal Automatic Formation Control for Two-Wheeled Vehicles Using Model Predictive Control with Formation Keeper</i>			
Haga, Shunta			Chiba Univ.
Zanma, Tadanao			Chiba Univ.
Koiwa, Kenta			Chiba Univ.
Liu, Kang-Zhi			Chiba Univ.
► SuA20-6 15:10–15:30			
<i>A Study on Improvement of Switching Control Using Network Traffic Estimation of Networked Control with Data Dropout</i>			
Hatsumata, Wataru	Graduate School of Sci. & Engineering, Chiba Univ.		
Zanma, Tadanao			Chiba Univ.
Koiwa, Kenta			Chiba Univ.
Liu, Kang-Zhi			Chiba Univ.
SuA21 13:30–15:30	Room 3410, Block 3		
Invited Session: DEDS and Its Simulation & Optimization (1)			
Organizer: Zhao, Qianchuan			Tsinghua Univ.
Organizer: Xia, Li			Sun Yat-Sen Univ.
Organizer: Peng, Yijie			Peking Univ.
Chair: Xia, Li			Sun Yat-Sen Univ.
Co-Chair: Wang, Zheng			Southeast Univ.
► SuA21-1 13:30–13:50			
<i>Dynamic Scheduling of A One-of-a-Kind Production System</i>			
Wang, Zheng			Southeast Univ.
► SuA21-2 13:50–14:10			
<i>Fluctuation Reduction and Sizing of Battery Storage Systems with Renewable Energy in Microgrids</i>			
Zhen, Yang			Tsinghua Univ.
Xia, Li			Sun Yat-Sen Univ.
Guan, Xiaohong			Xi'an Jiao Tong Univ.
► SuA21-3 14:10–14:30			
<i>概率决策树：决策规则参数化梯度寻优</i>			
<i>Probabilistic Decision Tree: Optimizing Decision Rules with Gradient Information</i>			
Ma, Xiaoteng			Tsinghua Univ.
Xia, Li			Sun Yat-Sen Univ.
Zhao, Qianchuan			Tsinghua Univ.
► SuA21-4 14:30–14:50			
<i>Efficient Sampling for Selecting Important Nodes in Random Network</i>			
Li, Haidong			Peking Univ.
Xu, Xiaoyun			Peking Univ.
Peng, Yijie			Peking Univ.
Chen, Chun-Hung			George Mason Univ.
► SuA21-5 14:50–15:10			
<i>Stochastic Gradient Estimation for Artificial Neural Networks</i>			
Peng, Yijie			Peking Univ.
Xiao, Li			Chinese Acad. of Sci.
Heidergott, Bernd			Vrije Universiteit Amsterdam
Hong, L. Jeff			Fudan Univ.
Lam, Henry			Columbia Univ.
► SuA21-6 15:10–15:30			
<i>Estimating Risk Contributions via Monte Carlo: A Direct Smoothed Perturbation Analysis Approach</i>			
Liu, Yanchu			Sun Yat-sen Univ.

SuA22	13:30–15:30	Room 3411, Block 3		
Invited Session: Advances in Disturbance/Uncertainty Estimation and Attenuation Techniques with Applications (1)				
Organizer: Li, Shihua	Southeast Univ., China	Jia, Lijuan	Beijing Inst. of Tech.	
Organizer: Yang, Jun	Southeast Univ.	Liu, Yifei	Univ. of Southern California	
Organizer: Guo, Lei	Beihang Univ.	Ma, Cheng	Beijing Inst. of Tech.	
Chair: Li, Shihua	Southeast Univ., China	Yang, Zi-Jiang	Ibaraki Univ.	
Co-Chair: Wu, Kang	Southeast Univ.			
▶ SuA22-1	13:30–13:50			
<i>Design and Testing of A New High-Order Integral Terminal Sliding Mode Controller</i>				
Nan, Zhiye	Univ. of Macau	Zhang, Yahui	Sophia Univ.	
Xu, Qingsong	Univ. of Macau	Xu, Fuguo	Sophia Univ.	
Li, Shihua	Southeast Univ., China	Shen, Tielong	Sophia Univ.	
▶ SuA22-2	13:50–14:10			
<i>Active Disturbance Rejection Control Design and Analysis for First-order Plus Time Delay Systems</i>				
Elameen, Mohanad	North China Electric Power Univ.	Yang, Jinli	Beijing Inst. of Tech.	
Li, Jian	North China Electric Power Univ.	Jia, Lijuan	Beijing Inst. of Tech.	
Zhang, Bin-Wen	North China Electric Power Univ.	Ma, Cheng	Beijing Inst. of Tech.	
Tan, Wen	North China Electric Power Univ.	Fan, Lu	Beijing Inst. of Tech.	
▶ SuA22-3	14:10–14:30			
<i>Universal Dynamic Control Design for Nonlinear Systems with Mismatched Disturbances</i>				
Jiang, Nannan	Shanghai Univ. of Electric Power	Kanae, Shunshoku	Junshin Gakuen Univ.	
Zhang, Chuanlin	Shanghai Univ. of Electric Power			
▶ SuA22-4	14:30–14:50			
<i>Sensorless Speed Control of PMSM via Extended State Observer</i>				
Wu, Kang	Southeast Univ.	▶ SuA23-5	14:50–15:10	
Sun, Changyin	Southeast Univ.	<i>Traffic Information-enabled Intelligent ECMS for Plug-in Hybrid Electric Vehicles</i>		
▶ SuA22-5	14:50–15:10	Zhang, Yahui	Sophia Univ.	
<i>Integral Active Finite-time Disturbance Rejection Control for Attitude Tracking of Quad-rotor</i>		Xu, Fuguo	Sophia Univ.	
Cong, Yongzheng	HeFei Univ. of Tech.	Shen, Tielong	Sophia Univ.	
Zhou, Jun	Hefei Univ. of Tech.			
Du, Haibo	Hefei Univ. of Tech.			
Wu, Di	Hefei Univ. of Tech.			
Jiang, Canghua	Hefei Univ. of Tech.			
▶ SuA22-6	15:10–15:30			
<i>Observer-Based Output Feedback Stabilization for Perturbed Second-Order Uncertain System with Finite-Time Convergence</i>				
Zhu, Wenwu	Southeast Univ.			
Du, Haibo	Hefei Univ. of Tech.			
Li, Shihua	Southeast Univ., China			
SuA23	13:30–15:50	Room 3412, Block 3		
Invited Session: Advances in Stochastic Estimation and Optimization				
Organizer: Wu, Yuhu	Dalian Univ. of Tech.			
Organizer: Shen, Tielong	Sophia Univ.			
Chair: Shen, Tielong	Sophia Univ.			
Co-Chair: Wu, Yuhu	Dalian Univ. of Tech.			
▶ SuA23-1	13:30–13:50			
<i>Research of the Optimization Methodology for Advanced Powertrain Control 2</i>				
Kako, Junichi	Toyota Motor Corporation			
Asai, Hideo	Toyota Motor Corporation			
Yoshida, Shozo	Toyota Motor Corporation			
Shimizu, Rio	Toyota Motor Corporation			
▶ SuA23-2	13:50–14:10			
<i>Mutual Information Analysis of Combustion Phase and In-cylinder Pressure in Spark Ignition Engines</i>				
Di, Huanyu	Sophia Univ.			
Shen, Tielong	Sophia Univ.			
▶ SuA23-3	14:10–14:30			
<i>Improvement of Fuel Economy and Drivability for Series-parallel Plug-in Hybrid Electric Vehicles Using A Stochastic Model Predictive Control</i>				
Nishio, Yui	Honda R&D Co., Ltd			
Shen, Tielong	Sophia Univ.			
▶ SuA23-4	14:30–14:50			
<i>On Optimization of the Measurement Matrix for Distributed Compressed Estimation</i>				
Bai, Lizhong	Beijing Inst. of Tech.			
Jia, Lijuan				
Liu, Yifei				
Ma, Cheng				
Yang, Zi-Jiang				
▶ SuA23-5	14:50–15:10			
<i>Traffic Information-enabled Intelligent ECMS for Plug-in Hybrid Electric Vehicles</i>				
Zhang, Yahui	Sophia Univ.			
Xu, Fuguo	Sophia Univ.			
Shen, Tielong	Sophia Univ.			
▶ SuA23-6	15:10–15:30			
<i>Gossip BCLMS Method over Multi-agent Networks</i>				
Yang, Jinli	Beijing Inst. of Tech.			
Jia, Lijuan	Beijing Inst. of Tech.			
Ma, Cheng	Beijing Inst. of Tech.			
Fan, Lu	Beijing Inst. of Tech.			
Kanae, Shunshoku	Junshin Gakuen Univ.			
▶ SuA23-7	15:30–15:50			
<i>Terminal Cost Optimization of Probabilistic Boolean Control Network with Beta Distributed Selection Probabilities</i>				
Toyoda, Mitsuru	The Inst. of Statistical Mathematics			
Wu, Yuhu	Dalian Univ. of Tech.			
SuA24	13:30–15:30	Room 3413, Block 3		
Invited Session: Intelligent Sensing and Control for Robotic Systems				
Organizer: Cheng, Long	Inst. of Automation, Chinese Acad. of Sci.			
Organizer: Yang, Hongjun	Inst. of Automation Chinese Acad. of Sci.			
Organizer: Wang, Yunpeng	Beijing Inst. of Control Engineering			
Chair: Cheng, Long	Inst. of Automation, Chinese Acad. of Sci.			
Co-Chair: Yang, Hongjun	Inst. of Automation Chinese Acad. of Sci.			
Co-Chair: Wang, Yunpeng	Beijing Inst. of Control Engineering			
▶ SuA24-1	13:30–13:50			
<i>Disturbance-Observer-Based Impedance Control of A Five-bar Parallel Robot</i>				
Zhang, Xuexin	Jiangsu Univ.			
Qin, Yuexin	Jiangsu Univ.			
Sun, Tairen	Jiangsu Univ.			
▶ SuA24-2	13:50–14:10			
<i>Singular Perturbation Approach Based Boundary Control of A Flexible Manipulator with High Gain Observer</i>				
Liu, Zhiye	Beihang Univ.			
Yang, Hongjun	Inst. of Automation Chinese Acad. of Sci.			
Yang, Yan	Xidian Univ.			
▶ SuA24-3	14:10–14:30			
<i>Fast and Robust RGB-D Multiple Human Tracking Based on Part Model for Mobile Robots</i>				
Sun, Shiyi	Inst. of Automation, Chinese Acad. of Sci.			
Zhao, Xiaoguang	Inst. of Automation, the Chinese Acad. of Sci.			
Tan, Min	Inst. of Automation, Chinese Acad. of Sci.			
▶ SuA24-4	14:30–14:50			
<i>ROS-Based Depth Control for Hybrid-Driven Underwater Vehicle-Manipulator System</i>				
Cai, Mingxue	Inst. of Automation, Chinese Acad. of Sci.			
Wang, Yu	Inst. of Automation Chinese Acad. of Sci.			
Wang, Shuo	Inst. of Automation, Chinese Acad. of Sci.			
Wang, Rui	Inst. of Automation, Chinese Acad. of Sci.			
Tan, Min	Inst. of Automation, Chinese Acad. of Sci.			
▶ SuA24-5	14:50–15:10			
<i>基于输出反馈的柔性绳吊车非线性控制</i>				
Zhang, Jianyi	Nankai Univ.			
Sun, Ning	Nankai Univ.			
Xin, Xin	Okayama Prefectural Univ.			
Fang, Yongchun	Nankai Univ.			
▶ SuA24-6	15:10–15:30			
<i>Nonlinear Control of Flexible Rope Cranes Based on Output Feedback</i>				
Wang, Yunpeng	Beijing Inst. of Control Engineering			
Xie, Yongchun	Beijing Inst. of Control Engineering			

SuA25	13:30–15:30	Room 3415, Block 3	
Invited Session: Security and Control of Emerging Networked Systems			
Organizer: Shi, Dawei	Beijing Inst. of Tech.		14:30–14:50
Organizer: Li, Yuzhe	Northeastern Univ.		<i>Active Disturbance Rejection Control for Drag-Free Satellites with Saturation-Constrained Observations</i>
Organizer: Chen, Tongwen	Univ. of Alberta		Yang, Fei
Chair: Shi, Dawei	Beijing Inst. of Tech.		Diao, Jingdong
Co-Chair: Li, Yuzhe	Northeastern Univ.		Univ. of Sci. & Tech. Beijing
► SuA25-1	13:30–13:50		Univ. of Sci. & Tech. Beijing
<i>Transient Stability Assessment of Power Systems Based on Slow Feature Analysis</i>			Univ. of Sci. & Tech. Beijing
Si, Yabin	Beijing Univ. of Chemical Tech.		14:50–15:10
Liu, Daowei	China Electric Power Research Inst.		<i>Fixed-Time Event-Triggered Average Consensus of Nonlinear MASs with External Disturbances and Switching Topologies</i>
Yang, Hongying	China Electric Power Research Inst.		Li, Jian
Li, Zonghan	Northeast Electric Power Univ.		Chai, Xiaofeng
Wang, Youqing	Beijing Univ. of Chemical Tech.		Zhang, Yanling
► SuA25-2	13:50–14:10		Yu, Yao
<i>Glucose Regulation for Subjects with Type 1 Diabetes Using Active Disturbance Rejection Control</i>			Sun, Changyin
Cai, Deheng	Beijing Inst. of Tech.		Southeast Univ.
Song, Jiliang	Beijing Inst. of Tech.		
Wang, Junzheng	Beijing Inst. of Tech.		
Shi, Dawei	Beijing Inst. of Tech.		
► SuA25-3	14:10–14:30		
<i>Jamming Energy Dispatch Strategy in Two-hop Relay System</i>			
Gan, Ruimeng	Univ. of Electronic Sci. & Tech. of China		
Shao, Jinliang	Univ. of Electronic Sci. & Tech. of China		
Zhang, Heng	Huaihai Inst. of Tech.		
► SuA25-4	14:30–14:50		
<i>Coordinated Formation Control of Wheeled Mobile Robots with Switching Communication Topologies</i>			
Wang, Zhanxu	Northeastern Univ.		
Liu, Tengfei	Northeastern Univ.		
► SuA25-5	14:50–15:10		
<i>Location of False Data Injection Attacks in Power System</i>			
Jiang, Junjun	School of Electronic Information & Electrical Engineering		
Wu, Jing	Shanghai Jiao Tong Univ.		
Long, Chengnian	Shanghai Jiao Tong Univ.		
Li, Shaoyuan	Shanghai Jiao Tong Univ.		
► SuA25-6	15:10–15:30		
<i>Distributed Fusion Estimation for Linear Time-varying Systems under DoS Attacks and Bounded Noises</i>			
Zhu, Daoping	Zhejiang Univ. of Tech.		
Chen, Bo	Zhejiang Univ. of Tech.		
Yu, Li	Zhejiang Univ. of Tech.		
SuA26	13:30–15:30	Room 3416, Block 3	
Invited Session: Practical Applications of New Control Methods and Optimization Techniques			
Organizer: Guo, Jin	Univ. of Sci. & Tech. Beijing		
Chair: Guo, Jin	Univ. of Sci. & Tech. Beijing		
Co-Chair: Lu, Yanrong	Univ. of Sci. & Tech. Beijing		
► SuA26-1	13:30–13:50		
<i>Burden Surface Temperature Field Estimation of the Blast Furnace</i>			
Li, You	Univ. of Sci. & Tech. Beijing		
Zhang, Sen	Univ. of Sci. & Tech. Beijing		
Jin, Yan	Univ. of Sci. & Tech. Beijing		
Chen, Xianzhong	Univ. of Sci. & Tech. Beijing		
Yin, Yixin	Univ. of Sci. & Tech. Beijing, China		
Wang, Fenhua	Univ. of Sci. & Tech. Beijing		
► SuA26-2	13:50–14:10		
<i>3D Multi-UAV Collaboration Based on the Hybrid Algorithm of Artificial Bee Colony and A*</i>			
Bai, Xin	Univ. of Sci. & Tech. Beijing		
Wang, Ping	Space Star Tech. Co.LTD		
Wang, Ziye	Univ. of Sci. & Tech. Beijing		
Zhang, Lan	Univ. of Sci. & Tech. Beijing		
► SuA26-3	14:10–14:30		
<i>Correction Methods of Aerodynamic Force and Moment Coefficients Based on the Identification Data</i>			
Liu, Quanjun	Sci. & Tech. on Space Physics Laboratory		
Xiao, Wen	Sci. & Tech. on Space Physics Laboratory		
Diao, Jingdong	Univ. of Sci. & Tech. Beijing		
SuA26-4	14:30–14:50		
<i>Active Disturbance Rejection Control for Drag-Free Satellites with Saturation-Constrained Observations</i>			
Yang, Fei	Univ. of Sci. & Tech. Beijing		
Diao, Jingdong	Univ. of Sci. & Tech. Beijing		
► SuA26-5	14:50–15:10		
<i>Fixed-Time Event-Triggered Average Consensus of Nonlinear MASs with External Disturbances and Switching Topologies</i>			
Li, Jian	Univ. of Sci. & Tech. Beijing		
Chai, Xiaofeng	Univ. of Sci. & Tech. Beijing		
Zhang, Yanling	Univ. of Sci. & Tech. Beijing		
Yu, Yao	Univ. of Sci. & Tech. Beijing		
Sun, Changyin	Southeast Univ.		
SuA26-6	15:10–15:30		
<i>Discrete-time Multi-rate Systems: An Internal Model-Based Approach</i>			
Lu, Yanrong	Univ. of Sci. & Tech. Beijing		
Xu, Zhengguang	Univ. of Sci. & Tech. Beijing		
Pei, Mengtong	Univ. of Sci. & Tech. Beijing		
SuA27	13:30–15:30	Room 3418, Block 3	
Invited Session: Analysis and Synthesis for Singular Dynamic Systems			
Organizer: Zhang, Baoyong	Nanjing Univ. of Sci. & Tech.		
Organizer: Shen, Hao	Anhui Univ. of Tech.		
Chair: Zhang, Baoyong	Nanjing Univ. of Sci. & Tech.		
Co-Chair: Shen, Hao	Anhui Univ. of Tech.		
► SuA27-1	13:30–13:50		
<i>Observability of Singular Boolean Control Networks</i>			
Li, Tiantian	Shandong Univ.		
Wang, Biao	Shandong Univ.		
Feng, Jun-E	Shandong Univ.		
Yu, Yongyuan	Shandong Univ.		
► SuA27-2	13:50–14:10		
<i>Generalized Integral Inequality to Admissibility Analysis for T-S Fuzzy Singular Time-delay Systems</i>			
Zhang, Huayang	Harbin Engineering Univ.		
Feng, Zhiguang	Harbin Engineering Univ.		
► SuA27-3	14:10–14:30		
<i>Dynamic Event-triggered and Guaranteed Cost Control for Singular Markov Jump Systems with Redundant Channels</i>			
Xu, Yihao	Qingdao Univ. of Tech.		
Zhang, Dong	Qingdao Univ. of Tech.		
Wang, Yanqian	Qingdao Univ. of Tech.		
► SuA27-4	14:30–14:50		
<i>Derivative State Feedback Controller Designing for Delayed Hybrid Descriptor Systems</i>			
Zhuang, Guangming	Nanjing Univ. of Sci. & Tech.		
Zhao, Guowei	Liaocheng Univ.		
Ma, Kun	Liaocheng Univ.		
Xia, Jianwei	Liaocheng Univ.		
Zhang, Huasheng	Southeast Univ.		
Zhao, Junsheng	Liaocheng Univ.		
► SuA27-5	14:50–15:10		
<i>Event-triggered Control for Networked Discrete-time Singular System Subject to Stochastic Cyber-attacks</i>			
Xu, Qiyi	Nanjing Univ. of Sci. & Tech.		
Zhang, Yijun	Nanjing Univ. of Sci. & Tech.		
SuB01	15:50–18:10	Room 3301, Block 3	
Regular Session: Systems Theory and Control Theory (2)			
Chair: Chen, Michael Z. Q.	Nanjing Univ. of Sci. & Tech.		
Co-Chair: Jiang, Tiantian	Beijing Inst. of Control Engineering		
► SuB01-1	15:50–16:10		
<i>On the Number of Unstable Eigenvalues of Linear Positive Systems</i>			
Guo, Baoyin	Nanjing Univ. of Sci. & Tech.		
Li, Hongchao	Nanjing Univ. of Sci. & Tech.		
Zhang, Liangyu	Nanjing Univ. of Sci. & Tech.		
Chen, Michael Z. Q.	Nanjing Univ. of Sci. & Tech.		
► SuB01-2	16:10–16:30		
<i>Simultaneous Estimation of System States and Identification of Time-varying Parameters for Discrete-time Systems via Iterative Learning Estimation</i>			

Yang, Ruitian Peng, Li Yang, Yongqing Zhu, Fengzeng	Jiangnan Univ. Jiangnan Univ. School of Sci. Jiangnan Univ.	17:30–17:50 <i>Backstepping-based Robust H_∞ Tracking Controller Design for Ball and Plate System</i> Wang, Aoxiang Li, Xiaohua Cao, Xiaojie	17:30–17:50 Univ. of Sci. & Tech. Liaoning Univ. of Sci. & Tech. Liaoning Univ. of Sci. & Tech. Liaoning
► SuB01-3 <i>A Fast Search Direct Allocation Method for Overactuated Systems</i>	Liu, Tong Shen, Hongliang Li, Haizheng Liu, Dongyu	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.	16:30–16:50
► SuB01-4 典型一阶时滞系统的自抗扰控制与时滞边界分析	16:50–17:10		
<i>Active Disturbance Rejection Control and Time-Delay Boundary Analysis for Typical First-Order Systems with Time-Delay</i>	Wang, Yongshuai Chen, Zengqiang Sun, Mingwei Sun, Qinglin	Nankai Univ. Nankai Univ. Nankai Univ. Nankai Univ.	
► SuB01-5 <i>On Characteristic Modeling of A Class of High-order MIMO Nonlinear Systems</i>	Jiang, Tiantian	Beijing Inst. of Control Engineering	17:10–17:30
► SuB01-6 <i>Reachable Set Estimation for Periodic Piecewise Time-varying Systems</i>	Fan, Chenchen Wang, Yamin Xie, Xiaochen	The Univ. of Hong Kong The Univ. of Hong Kong The Univ. of Hong Kong	17:30–17:50
► SuB01-7 <i>Five-Node ZeaD Formula and Zeroing-Dynamics Model Applied to Generalized-Sylvester-Type Future Linear Matrix Inequality</i>	Qi, Zhiyuan Shi, Yang Li, Jian Mao, Mingzhi Zhang, Yunong	Sun Yat-sen Univ. Sun Yat-sen Univ. Sun Yat-sen Univ. Sun Yat-sen Univ. Sun Yat-sen Univ.	17:50–18:10
SuB02 15:50–17:50 Room 3302, Block 3			
Regular Session: Nonlinear Systems and Control (2)			
Chair: Geng, Zhiyong Co-Chair: Liu, Yong-Hua	Peking Univ. Guangdong Univ. of Tech.		
► SuB02-1 <i>Model Reference Adaptive Sliding Mode Control of Overhead Crane with Uncertainties</i>	Zhang, Mingming Xu, Weimin Gu, Xiutao Wang, Yongshuang Zhang, Wanpeng	Shanghai Maritime Univ. Shanghai Maritime Univ. Shanghai Maritime Univ. Shanghai Maritime Univ. Shanghai Maritime Univ.	15:50–16:10
► SuB02-2 <i>Distributed Estimator-Based Control for Stochastic Hamiltonian Systems over Fading Channels</i>	Lv, Xinyu Sun, Weiwei Qiu, Mengyang	Qufu Normal Univ. Qufu Normal Univ. Qufu Normal Univ.	16:10–16:30
► SuB02-3 <i>Anti-windup Active Disturbance Rejection Control and Its Application to Antenna Servo Systems</i>	Wang, Yijng Zhang, Chaoyang Zuo, Zhiqiang	Tianjin Univ. Tianjin Univ. Tianjin Univ.	16:30–16:50
► SuB02-4 <i>Obstacle Avoidance Control for Non-holonomic Vehicles on Lie Group SE(2): A Rotating Attractive Vector Approach</i>	Wang, Mingxiang Geng, Zhiyong Peng, Xiuhui	Peking Univ. Peking Univ. Peking Univ.	16:50–17:10
► SuB02-5 <i>Funnel Control for A Class of Unknown High-Order Nonlinear Systems Using Barrier Functions</i>	Liu, Yong-Hua Su, Chun-Yi	Guangdong Univ. of Tech. Guangdong Univ. of Tech.	17:10–17:30
► SuB03 15:50–18:10 Room 3303, Block 3			
Regular Session: System Modeling and Identification (2)			
Chair: Fang, Hai-Tao Co-Chair: Chen, Ning	Chinese Acad. of Sci. Central South Univ.		
► SuB03-1 <i>Asymptotic Efficiency of Distributed Random Sampling Algorithm</i>	Liu, Qian He, Xingkang Fang, Hai-Tao	Institution of Sys. Sci. KTH Royal Inst. of Tech. Chinese Acad. of Sci.	15:50–16:10
► SuB03-2 <i>Identification of A Precision Motion Stage Based on the Hammerstein-Wiener Model</i>	Zhu, Zhang Zhang, Delong Zheng, Haiyang Tao, Huang Xie, Yangqiu	Guangxi Univ. Guangxi Univ. Guangxi Univ. Guangxi Univ. Guangxi Univ.	16:10–16:30
► SuB03-3 <i>On the Average Temperature Model for Skin of the Stratospheric Airship</i>	Huang, Long Shen, Shaoping	Xiamen Univ. Xiamen Univ.	16:30–16:50
► SuB03-4 <i>Enhanced Grasshopper Optimization Algorithm for Modeling Multivariable Systems with SVR</i>	Li, Genchen Wang, Ning Liu, Xiu	Zhejiang Univ. Zhejiang Univ. Zhejiang Univ.	16:50–17:10
► SuB03-5 机理和半监督学习结合的针铁矿法沉铁过程建模方法			17:10–17:30
<i>A Modeling Method Combining Mechanism with Semi-Supervised Learning for Goethite Process</i>			
► SuB03-6 <i>量化ARMAX系统的分布式参数辨识</i>	Wan, Jingying Chen, Ning Dai, Jiayang Gui, Weihua Zhao, Xu	Central South Univ. Central South Univ. Central South Univ. Central South Univ. Central South Univ.	17:30–17:50
<i>Distributed Parameter Identification of Quantized ARMAX Systems</i>			
► SuB03-7 <i>Dynamic Modeling and Feedback Correction for Cement Calciner</i>	Wang, Ying Zhang, Ji-Feng	Chinese Acad. of Sci. Chinese Acad. of Sci.	17:50–18:10
► SuB04 15:50–17:50 Room 3305, Block 3			
Regular Session: Optimization and Scheduling (2)			
Chair: Liu, Yungang Co-Chair: Zhang, Jieyong	Shandong Univ. Air Force Engineering Univ.		
► SuB04-1 <i>Unscented Kalman Filter Based State and Parameter Estimation in Per-cussive Drilling Systems</i>	Song, Xianfeng Kane, Pascal-Alexandre Abooshahab, Mohammad Ali	Norwegian Univ. of Sci. & Tech. SINTEF NTNU	15:50–16:10
► SuB04-2 <i>Integrated Scheduling Model for Cranes, ASC and SP-AS/RS in Automated Terminal</i>	Meng, Qingyao Zhu, Jin Xu, Hang	Shanghai Maritime Univ. Shanghai Maritime Univ. Shanghai Maritime Univ.	16:10–16:30
► SuB04-3 <i>Method for Assessing the Importance Level of Influencing Factors of Network Information System-of-System</i>	Zhang, Jieyong	Air Force Engineering Univ.	16:30–16:50

He, Yichao Sun, Yu Zhong, Yun Jiao, Zhi Qiang	Air Force Engineering Univ. Air Force Engineering Univ. Information & Navigation College, Air Force Engineering Univ. Airforce Engineering Univ.	16:50–17:10	SuB06 Regular Session: Motion Control (2) Chair: Lu, Dongning Co-Chair: Zheng, Jinchuan	15:50–17:50 Beijing Inst. of Control Engineering Swinburne Univ. of Tech., Australia	Room 3307, Block 3
► SuB04-4	<i>Collaborative Optimization of Economic Dispatch and Reactive Power Dispatch</i>	16:50–17:10	► SuB06-1 <i>Modelling and Mitigation of Dual-Axis Antenna-Induced Disturbances on Spacecraft</i>	15:50–16:10	
Liu, Jiaxin Liu, Yungang Li, Fengzhong Liang, Huijun Man, Yongchao	Shandong Univ. Shandong Univ. Shandong Univ. Shandong Univ. Shandong Univ.		Lei, Yongjun Lu, Dongning Mu, Xiaogang Li, Lijun Chen, Chao	China Acad. of Spacecraft Tech. Beijing Inst. of Control Engineering Beijing Inst. of Control Engineering Beijing Institute of Control Engineering Beijing Inst. of Control Engineering	
► SuB04-5	<i>Distributed Constant-Batch Random Projection Subgradient Algorithm over Switching Balanced Graphs with Time Delays</i>	17:10–17:30	► SuB06-2 <i>Practical Model-Free Robust Control Design for An Underwater/IMC Actuator</i>	16:10–16:30	
Zhong, Yannan Gao, Wenhua Li, Dongjie Ren, Hongwei	South China Univ. of Tech. South China Univ. of Tech. Wushan Campus, South China Univ. of Tech. Guangdong Univ. of Petrochemical Tech.		Shannanh, Jasim Zheng, Jinchuan Wang, Hai Man, Zihong	Swinburne Univ. Swinburne Univ. of Tech., Australia Hefei Univ. of Tech. -	
► SuB04-6	<i>One-way Car-sharing System Based on Recharging Strategy</i>	17:30–17:50	► SuB06-3 <i>Subsection PWM Variable Duty Cycle Control of Switched Reluctance Motor Based on Torque Sharing Function</i>	16:30–16:50	
Ma, Jian Chen, Lixin Mahmood, Arfan	Shanghai Jiaotong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.		Liu, Di Zhao, Yongsheng Fan, Yunsheng	Dalian Maritime Univ. Dalian Maritime Univ. Dalian Maritime Univ.	
SuB05	15:50–17:50	Room 3306, Block 3	► SuB06-4 <i>Improve Probabilistic Roadmap Algorithm with Potential Field Function for Path Planning of Quadrotor</i>	16:50–17:10	
Regular Session: Variable Structure Control			Chen, Jinbao Zhou, Yimin	Central South Univ. Shenzhen Inst. of Advanced Tech., Chinese Acad. of Sci.	
Chair: Chen, Bei	Central Academe, Shanghai Electric Group Co., Ltd., Shanghai, P. R. China		Gong, Jin	Central South Univ.	
Co-Chair: Ma, Zhiqiang	Northwestern Polytechnical Univ.		► SuB06-5 <i>Road Acceleration Spectrum Replication on Stewart Platform with Three Variable Controller</i>	17:10–17:30	
► SuB05-1	15:50–16:10		Hu, Xiaoyu Wang, Shou Kun	Beijing Institute of Tech. Beijing Inst. of Tech.	
<i>Adaptive Sliding Mode Control for Markov Jump System Against False Data Injection Attack</i>			► SuB06-6 <i>Development of Dual-arm Lower Limb Rehabilitation Robot for Hemiplegic Patients</i>	17:30–17:50	
Chen, Bei	Central Academe, Shanghai Electric Group Co., Ltd., Shanghai, P. R. China		Sun, Zhengdi Wang, Chunbao Wei, Jianjun Xia, Jinfeng Wang, Tong Liu, Quanquan Duan, Lihong Wang, Yulong Long, Jianjun	Guangxi Univ. of Sci. & Tech. Shenzhen Inst. of Geriatrics Guangxi Univ. of Sci. & Tech. Guangxi Univ. of Sci. & Tech. Guangxi Univ. of Sci. & Tech. Shenzhen Inst. of Geriatrics Shenzhen Institute of Geriatrics The First Affiliated Hospital of Shenzhen Univ. The First Affiliated Hospital of Shenzhen Univ.	
► SuB05-2	16:10–16:30		► SuB07 15:50–17:50	Room 3308, Block 3	
<i>Robust Fast Nonsingular Terminal Sliding Mode Control Strategy for Electronic Throttle Based on Extreme Learning Machine</i>			Regular Session: Signal Processing and Information Fusion (2)		
Hu, Youhao Wang, Hai Cao, Zhenwei Man, Zihong Yu, Ming Ping, Zhaowu	Hefei Univ. of Tech. Murdoch Univ. Swinburne Univ. of Tech. -		Chair: Yan, Liping Co-Chair: Xu, Yanbin	Beijing Inst. of Tech. Tianjin Univ.	
► SuB05-3	16:30–16:50		► SuB07-1 <i>Samples Selective Updating Mechanism for Object Tracking</i>	15:50–16:10	
<i>Extreme-learning-machine-based Robust AITSM Control for Steer-by-wire Systems</i>			Mao, Lin Xu, Yehao Yang, Dawei Zhang, Rubo	Dalian Minzu Univ. Dalian Minzu Univ. Dalian Minzu Univ. Harbin Engineering Univ.	
Ye, Mao Wang, Hai Cao, Zhenwei Zheng, Jinchuan Man, Zihong Jin, Xiaozheng	Hefei Univ. of Tech. Murdoch Univ. Swinburne Univ. of Tech. Swinburne Univ. of Tech., Australia -		► SuB07-2 <i>An Abdominal Imaging Method Combined Electrical with Ultrasound Tomography</i>	16:10–16:30	
► SuB05-4	16:50–17:10		Li, Peixia Zhao, Shu Dong, Feng	Tianjin Univ. Chinese Acad. Medical Sci. Tianjin Univ.	
<i>Adaptive Sliding Mode Control Law for Tethered Space Robot with Saturated Tension and Thruster Torque</i>			► SuB07-3 <i>L1-L2 Spatial Adaptive Regularization Method for Electrical Tomography</i>	16:30–16:50	
Ma, Zhiqiang Huang, Panfeng Dong, Gangqi	Northwestern Polytechnical Univ. Northwestern Polytechnical Univ. Northwestern Polytechnical Univ.		Liu, Ziqi Xu, Yanbin Dong, Feng	Tianjin Univ. Tianjin Univ. Tianjin Univ.	
► SuB05-5	17:10–17:30				
<i>Adaptive Second-order Sliding Mode Station-keeping Control for Solar Sail Spacecraft on Displaced Orbit</i>					
Chen, Yicheng Qi, Ruiyun Wang, Huanjie Jiang, Zehua	Nanjing Univ. of Aeronautics & Astronautics Nanjing Univ. of Aeronautics & Astronautics Shanghai Aerospace Control Tech. Inst. Shanghai Aerospace Control Tech. Inst.				

► SuB07-4 <i>Data Preprocessing and Kalman Filter Performance Improvement Method in Integrated Navigation Algorithm</i>	16:50–17:10	Qian, Shaoke Huang, Sheng Hou, Zhigang Song, Xinbo Zhang, Wei	National Univ. of Defense Tech. Beijing Aeronautical Tech. Research Center Beijing Aeronautical Tech. Research Center Beijing Aeronautical Tech. Research Center Beijing Aeronautical Tech. Research Center
Mao, Zhiwei Wu, Liaoni Song, Lei Huang, Dan	Shanghai Jiao Tong Univ. Chinese Xiamen Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.		
► SuB07-5 <i>Contour Feature Fusion SSD Algorithm</i>	17:10–17:30		
Yang, Dawei Bi, Cheng Mao, Lin Zhang, Rubo	Dalian Minzu Univ. Dalian Minzu Univ. Dalian Minzu Univ. Harbin Engineering Univ.		
► SuB07-6 <i>Distributed Fault-tolerant Fusion Estimation Based on Multiple-model Extended Kalman Filter</i>	17:30–17:50		
Shi, Xiaodi Yan, Liping Xia, Yuanqing	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.		
SuB08	15:50–18:10	Room 3309, Block 3	
Regular Session: Navigation and Guidance (2)			
Chair: Yan, Han	Beijing Inst. of Control Engineering		
Co-Chair: Hu, Jie	The 28th Research Inst. of China Electronics Tech. Group Corporation		
► SuB08-1 <i>Accuracy Performance Evaluation Method of Integrated Navigation System Based on Two-level FCE</i>	15:50–16:10		
Cheng, Jian-Hua Dong, Mingtao Liu, Jiaxin	Harbin Engineering Univ. Harbin Engineering Univ. Harbin Engineering Univ.		
► SuB08-2 <i>Improved Adaptive Hatch Filter Method to Minimize Effects of Ionospheric Anomaly for GBAS</i>	16:10–16:30		
Hu, Jie	The 28th Research Inst. of China Electronics Tech. Group Corporation		
Yan, Yongjie	The 28th Research Inst. of China Electronics Tech. Group Corporation		
Shi, Xiaozhu	The 28th Research Inst. of China Electronics Tech. Group Corporation		
► SuB08-3 <i>A Switch Unscented Kalman Filter for Autonomous Navigation System of DSS Based on Relative Measurements</i>	16:30–16:50		
Zhang, Ai Li, Jing Jia, Lidong Miao, Yuanming	China Acad. of Space Tech. Beijing Inst. of Space Mechanics & Electricity China Aerospace Sci. & Tech. Corporation China Acad. of Space Tech.		
► SuB08-4 <i>Robust Output Feedback Drag-Tracking Guidance for Uncertain Entry Vehicles</i>	16:50–17:10		
Yan, Han Wang, Xinghu He, Yingzi	Beijing Inst. of Control Engineering Univ. of Sci. & Tech. of China Beijing Inst. of Control Engineering		
► SuB08-5 <i>Quick Orientation of Rotary Magnetic Field Based on Feature Vector</i>	17:10–17:30		
Li, Qinghua Zheng, Yuanxun Xie, Weinan Zong, Hua Hu, Jiekai Yu, Wang	Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech. Beijing Aerospace Automatic Control Inst. Harbin Inst. of Tech. Harbin Inst. of Tech.		
► SuB08-6 <i>Improved Differential Positioning Algorithm for GBAS Based on Fuzzy Adaptive Kalman Filter</i>	17:30–17:50		
Hu, Jie	The 28th Research Inst. of China Electronics Tech. Group Corporation		
Xie, Xiaoyu	The 28th Research Inst. of China Electronics Tech. Group Corporation		
Yan, Yongjie	The 28th Research Inst. of China Electronics Tech. Group Corporation		
► SuB08-7 <i>Zero Miss Distance of 3D PPNG with Time-varying Speed</i>	17:50–18:10		
Liu, Kexin Lu, Jinhua			
SuB09	15:50–17:50	Room 3311, Block 3	
Regular Session: Adaptive Control and Learning Control (2)			
Chair: Zhou, Ning	Fujian Agriculture & Forestry Univ.		
Co-Chair: An, Chen	Hunan Univ.		
► SuB09-1 <i>Control of Active and Passive Vibration Isolation Stabilization Platform of Airship Based on Characteristic Model</i>	15:50–16:10		
Sun, Jietao Shen, Shaoping Hong, Pang			
► SuB09-2 <i>A Survey of Direct Learning Control</i>	16:10–16:30		
Yu, Miao Chai, Sheng			
► SuB09-3 <i>Quaternion-Based Fault-Tolerant Control Design for Spacecraft Attitude Stabilization: An Anti-Saturation Method</i>	16:30–16:50		
Zhou, Ning Cheng, Xiaodong Xia, Yuanqing Huang, Jie Wang, Qipeng			
► SuB09-4 <i>A Fast Policy Search Models for Control</i>	16:50–17:10		
Jia, Shengde An, Chen Zhou, Han			
► SuB09-5 <i>Adaptive Control for Fractional-order Interconnected Systems</i>	17:10–17:30		
Liang, Bingyun Zheng, Shiqi Yang, Zichao Liu, Feng			
► SuB09-6 <i>Position Estimation Error Reduction Method for Position Sensorless Controlled IPMSM at Switching Saliency-based Method to Flux Observer-based Method</i>	17:30–17:50		
Kawamura, Naoki Liu, Kang-Zhi Zanma, Tadanao			
SuB10	15:50–17:50	Room 3312, Block 3	
Regular Session: Control of Network Systems and Networked Control Systems (1)			
Chair: Li, Ning	Shanghai Jiao Tong Univ.		
Co-Chair: Chen, Fei	Northeastern Univ.		
► SuB10-1 <i>Event-triggered Control for Neutrally Stable Linear Systems Subject to Output Saturation</i>	15:50–16:10		
Zuo, Zhiqiang Xie, Pengfei Zhang, Zhicheng Wang, Yijing			
► SuB10-2 <i>Finite-Time Synchronization of Coupled Memristive Neural Networks Subject to Stochastic Link Uncertainties and Attacks</i>	16:10–16:30		
Lu, Qingqing Zhang, Xiaomei Sheng, Suying			
► SuB10-3 <i>Synchronization of Complex Dynamical Networks with Stochastic Coupling via PI Control</i>	16:30–16:50		
Gu, Haibo	Acad. of Mathematics & Sys. Sci., Chinese Acad. of Sci.		
Liu, Kexin Lu, Jinhua			
Beihang Univ. Chinese Acad. of Sci.			

► SuB10-4 <i>Guaranteed Structural Controllability for Networked Systems with Minimum Input/Edge Addition</i>	16:50–17:10	Savkin, Andrey Huang, Chao	Univ. of New South Wales Univ. of Wollongong
Mu, Jianbin Li, Shaoyuan Zou, Yuanyuan Li, Ning	Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.		
► SuB10-5 <i>Discrete-time Distributed Average Tracking for Noisy References Signals</i>	17:10–17:30	Fan, Jingjing Guo, Jianying Wang, Li Zhu, Jiaping Zhang, Xinfeng	North China Univ. of Tech. Shunde Secondary Vocational School, Foshan North China Univ. of Tech. The Open Univ. of China, Beijing Technical Center of Dongfeng Motor, Wuhan
Chen, Changjiang Chen, Fei	Xiamen Univ. Northeastern Univ.		
► SuB10-6 <i>Control Energy of Directed Networks</i>	17:30–17:50	Dong, Shiyong Chen, Hong Yang, Zheng Liu, Qifang Wang, Ping	Jilin Univ. Jilin Univ. JiLin Univ. Jilin Univ. Jilin Univ.
Huang, Jiajun Xiang, Lining Chen, Fei	Xiamen Univ. Northeastern Univ. at Qinhuangdao Northeastern Univ.		
SuB11 15:50–17:50	Room 3313, Block 3		
Regular Session: Multi-Agent Systems and Distributed Control (2)			
Chair: Xin, Bin Co-Chair: Li, Chao	Beijing Inst. of Tech. North China Univ. of Tech.		
► SuB11-1 <i>Cooperative Exact State Estimation of Linear Multi-agent Systems with Heterogeneous Bounded Disturbances</i>	15:50–16:10	Zhou, Danfeng Guo, Zhaoyu Li, Jie Yu, Pei-Chang	National Univ. of Defense Tech. National Univ. of Defense Tech. National Univ. of Defence Tech. National Univ. of Defense Tech.
Yuan, Chengzhi Zeng, Wei Stegagno, Paolo	Univ. of Rhode Island Longyan Univ. Univ. of Rhode Island		
► SuB11-2 <i>A Hybrid Formation Control Design for Multi-Robot System with Obstacle Avoidance</i>	16:10–16:30	Li, Yongfu Liang, Zhibin Zhu, Hao Tang, Xiaoming	Chongqing Univ. of Posts & Telecommunications Chongqing Univ. of Posts & Telecommunications Chongqing Univ. of Posts & Telecommunications Chongqing Univ. of Posts & Telecommunications
Wu, Shiguang Sui, Zezhi Yi, Jian-Qiang Pu, Zhiqiang	Inst. of Automation, Chinese Acad. of Sci. Chinese Acad. of Sci. Inst. of Automation, Chinese Acad. of Sci. Inst. of Automation, Chinese Acad. of Sci.		
► SuB11-3 <i>Distributed Control for the Flocking of Multi Nonholonomic Agent Systems with Bounded Inputs</i>	16:30–16:50		
Elmokadem, Taha	Univ. of New South Wales		
► SuB11-4 <i>Online Path Planning of Messenger UAV in Air-Ground Collaborative System</i>	16:50–17:10		
Zhang, Hao Xin, Bin Ding, Yulong	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.		
► SuB11-5 <i>Controllability of Discrete-time Heterogeneous Multi-agent Systems with Time-delay</i>	17:10–17:30		
Li, Chao Ping, Yaoyao Liu, Bo Sun, Dehui Deng, Xiaobao	North China Univ. of Tech. North China Univ. of Tech. North China Univ. of Tech. North China Univ. of Tech. North China Univ. of Tech.		
► SuB11-6 <i>Formation Control with Obstacle Avoidance of Multi-Robot Systems with Second-Order Dynamics</i>	17:30–17:50		
Zhang, Zhongnan Ling, Qing Yang, Zaiyue	Sun Yat-sen Univ. Sun Yat-Sen Univ. Zhejiang Univ.		
SuB12 15:50–17:50	Room 3315, Block 3		
Regular Session: Vehicle Control and Transportation Systems (2)			
Chair: Zhou, Danfeng Co-Chair: Fan, Jingjing	National Univ. of Defense Tech. North China Univ. of Tech.		
► SuB12-1 <i>Autonomous Vehicles Path Planning with Enhanced Ant Colony Optimization</i>	15:50–16:10		
Wang, Yijing Lu, Xin Zuo, Zhiqiang	Tianjin Univ. Tianjin Univ. Tianjin Univ.		
► SuB12-2 <i>Optimal Control of A Hybrid UAV/Train Parcel Delivery System</i>	16:10–16:30		
Huang, Hailong	Univ. of New South Wales		
► SuB12-3 <i>Dynamic Programming Algorithm for Hybrid Powertrain Power Allocation</i>	16:30–16:50		
Fan, Jingjing Guo, Jianying Wang, Li Zhu, Jiaping Zhang, Xinfeng	North China Univ. of Tech. Shunde Secondary Vocational School, Foshan North China Univ. of Tech. The Open Univ. of China, Beijing Technical Center of Dongfeng Motor, Wuhan		
► SuB12-4 <i>A Hierarchical Strategy for Velocity Optimization of Connected Vehicles with the Existence of Multiple Traffic Lights</i>	16:50–17:10		
Dong, Shiyong Chen, Hong Yang, Zheng Liu, Qifang Wang, Ping	Jilin Univ. Jilin Univ. JiLin Univ. Jilin Univ. Jilin Univ.		
► SuB12-5 <i>Suppression of the Maglev Vehicle-Track Coupled Self-Excited Vibration Using Two Gap Sensors</i>	17:10–17:30		
Zhou, Danfeng Guo, Zhaoyu Li, Jie Yu, Pei-Chang	National Univ. of Defense Tech. National Univ. of Defense Tech. National Univ. of Defence Tech. National Univ. of Defense Tech.		
► SuB12-6 <i>Electric Vehicle Dynamics-Based Car-Following Model and Stability Analysis</i>	17:30–17:50		
Li, Yongfu Liang, Zhibin Zhu, Hao Tang, Xiaoming	Chongqing Univ. of Posts & Telecommunications Chongqing Univ. of Posts & Telecommunications Chongqing Univ. of Posts & Telecommunications Chongqing Univ. of Posts & Telecommunications		
SuB13 15:50–17:50	Room 3401, Block 3		
Regular Session: Aircraft Control (2)			
Chair: Du, Xin Co-Chair: Jiang, Zehua	China Aerodynamics Research & Development Center Shanghai Aerospace Control Tech. Inst.		
► SuB13-1 <i>Stability Analysis and Control of Tethered Space-Tug System</i>	15:50–16:10		
Lu, Shan Jiang, Zehua	Shanghai Inst. of Spaceflight Control Tech. Shanghai Aerospace Control Tech. Inst.		
► SuB13-2 <i>Analysis on Sensor Dynamic Characteristics in Flight Control System</i>	16:10–16:30		
Ma, Ziqing	Northwestern Polytechnical Univ.		
► SuB13-3 <i>IoT UAV Control Based on DIC-PID in Water Quality Measurement</i>	16:30–16:50		
Yan, Lei Chen, Yang Pan, Kaiwen Wu, Huaiyu Cheng, Lei	Wuhan Univ. of Sci. & Tech. Wuhan Univ. of Sci. & Tech.		
► SuB13-4 <i>A New Image-Based Visual Servo Control Algorithm for Target Tracking Problem of Fixed-Wing Unmanned Aerial Vehicle</i>	16:50–17:10		
Yang, Lingjie Liu, Zhihong Wang, Xiangke	National Univ. of Defense Tech. National Univ. of Defense Tech. National Univ. of Defense Tech.		
► SuB13-5 <i>An Analytical Nonlinear Predictive Controller for Wing Rock Suppression</i>	17:10–17:30		
Du, Xin	China Aerodynamics Research & Development Center		
► SuB13-6 <i>UAV Autonomous Landing Technology Based on AprilTags Vision Positioning Algorithm</i>	17:30–17:50		
Li, Zhou Chen, Yang Lu, Hao Wu, Huaiyu Cheng, Lei	Wuhan Univ. of Sci. & Tech. Wuhan Univ. of Sci. & Tech.		

SuB14	15:50–17:50	Room 3402, Block 3
Regular Session: Neural Networks and Deep Learning (2)		
Chair: Liu, Meiqin	Zhejiang Univ.	Beijing Tech. & Business Univ.
Co-Chair: Yin, Guodong	Southeast Univ.	Beijing Tech. & Business Univ.
► SuB14-1	15:50–16:10	
<i>Deep Convolutional Neural Network with Dilated Convolution Using Small Size Dataset</i>		
Zhou, Shengwei	Yangzhou Univ.	Beijing Tech. & Business Univ.
Chen, Caikou	Yangzhou Univ.	Beijing Tech. & Business Univ.
Han, Guojiang	Yangzhou Univ.	Beijing Tech. & Business Univ.
Hou, Xielian	Yangzhou Univ.	Beijing Tech. & Business Univ.
► SuB14-2	16:10–16:30	
<i>Triple Generalized-Inverse Neural Network for Diagnosis of Flat Foot</i>		
Chen, Liangming	Lanzhou Univ.	Shanghai Jiao Tong Univ.
Jin, Long	Lanzhou Univ.	East China Univ. of Sci. & Tech.
Li, Yuhe	Guangzhou Sport Univ.	Shanghai Jiao Tong Univ.
Liu, Mei	Lanzhou Univ.	East China Univ. of Sci. & Tech.
Liao, Bolin	Jishou Univ.	Shanghai Jiao Tong Univ.
Yi, Chenfu	Jiangxi Univ. of Sci. & Tech.	East China Univ. of Sci. & Tech.
Sun, Zhongbo	Jilin Univ.	Shanghai Jiao Tong Univ.
► SuB14-3	16:30–16:50	
<i>Deep Reinforcement Learning Based High-level Driving Behavior Decision-making Model in Heterogeneous Traffic</i>		
Bai, Zhengwei	Beijing Jiaotong Univ.	Shandong Univ.
Shangguan, Wei	Beijing Jiaotong Univ.	Shandong Univ.
Cai, Bai-Gen	Beijing Jiaotong Univ.	Shandong Univ.
Chai, Linguo	Beijing Jiaotong Univ.	Shandong Univ.
► SuB14-4	16:50–17:10	
<i>A New Intrusion Detection Method Based on Adaptive Feature Extraction</i>		
Wu, Ya Li	Xi'an Univ. of Tech.	Shandong Univ.
Li, Guo Ting	Xi'an Univ. of Tech.	Shandong Univ.
Fu, Yu Long	Xi'an Univ. of Tech.	Shandong Univ.
Wang, Xiao Peng	Xi'an Univ. of Tech.	Shandong Univ.
► SuB14-5	17:10–17:30	
<i>Dual Low Identification Target Recognition in Complex Environment Based on Neural Network</i>		
Wu, Yuan	Southeast Univ.	Beihang Univ.
Geng, Keke	Southeast Univ.	Beihang Univ.
Xue, Peilin	South East Univ.	Shanghai Jiao Tong Univ.
Yin, Guodong	Southeast Univ.	Shanghai Jiao Tong Univ.
Zou, Wei	Southeast Univ.	Shanghai Jiao Tong Univ.
Liu, Shuai Peng	Southeast Univ.	Shanghai Jiao Tong Univ.
Yan, Yongjun	Southeast Univ.	Shanghai Jiao Tong Univ.
► SuB14-6	17:30–17:50	
<i>Object-aware Semantic Mapping of Indoor Scenes Using Octomap</i>		
Liu, Kaijian	Zhejiang Univ.	Western Sydney Univ.
Fan, Zhen	Zhejiang Univ.	Western Sydney Univ.
Liu, Meiqin	Zhejiang Univ.	Western Sydney Univ.
Zhang, Senlin	Zhejiang Univ.	Western Sydney Univ.
SuB15	15:50–17:50	Room 3403, Block 3
Regular Session: Systems Engineering		
Chair: Li, You	College of Information & Communication	
Co-Chair: Lu, Jiamin	Guangzhou Energy Inspection & Research Inst.	
► SuB15-1	15:50–16:10	
<i>Bolt Positioning Method Based on Active Binocular Vision</i>		
Jian, Xu	China Univ. of GeoSci. (Wuhan)	Univ. of Electronic Sci. & Tech. of China
Chen, Xin	China Univ. of GeoSci.	Univ. of Electronic Sci. & Tech. of China
Xiao, Zhe	China Univ. of GeoSci.	Univ. of Electronic Sci. & Tech. of China
Sun, Yipu	China Univ. of GeoSci. (Wuhan)	Univ. of Electronic Sci. & Tech. of China
► SuB15-2	16:10–16:30	
<i>Study on the Integrated and Intelligent Surveillance for Liquid Flow Calibration Device</i>		
Lu, Jiamin	Guangzhou Energy Inspection & Research Inst.	North Carolina State Univ.
Wang, Long	Guangzhou Energy Inspection & Research Inst.	North Carolina State Univ.
Wan, Yong	Guangzhou Energy Inspection & Research Inst.	
Xu, Dongliang	Guangdong Univ. of Tech.	
An, Yuming	Guangdong Univ. of Tech.	
► SuB15-3	16:30–16:50	
<i>Emergency Severity Assessment Method for Cluster Supply Chain Based on Cloud Fuzzy Clustering Algorithm</i>		
Hong, Xue	Beijing Tech. & Business Univ.	Hangzhou Dianzi Univ.
► SuB15-4	16:50–17:10	
<i>Shaft Orientation Calibration Method for Single-axis Rotation INS</i>		
Li, You	College of Information & Communication	Peking Univ.
Zhu, Xuan	Electromagnetic Spectrum Management	Zhejiang Univ.
Liu, Han	College of Information & Communication	Westlake Univ.
► SuB16	15:50–18:30	Room 3405, Block 3
Invited Session: Distributed Coordination and Teaming of Multi-Agent Systems		
Organizer: Li, Xianwei	Shanghai Jiao Tong Univ.	
Organizer: Tang, Yang	East China Univ. of Sci. & Tech.	
Chair: Li, Xianwei	Shanghai Jiao Tong Univ.	
Co-Chair: Tang, Yang	East China Univ. of Sci. & Tech.	
► SuB16-1	15:50–16:10	
<i>A Note on Observability of Switched Boolean Control Networks</i>		
Gao, Zhe	Shandong Univ.	
Wang, Biao	Shandong Univ.	
Feng, Jun-E	Shandong Univ.	
Yu, Yongyuan	Shandong Univ.	
► SuB16-2	16:10–16:30	
<i>Controllability of Multi-Agent Systems over Finite Fields via Semi-Tensor Product Method</i>		
Li, Yalu	Shandong Normal Univ.	
Li, Haitao	Shandong Normal Univ.	
► SuB16-3	16:30–16:50	
<i>Unconstrained Distributed Model Predictive Control for Double-Integrator Systems with Switching Interaction Graph</i>		
Zhu, Bing	Beihang Univ.	
Yuan, Xiaozhuoer	Beihang Univ.	
Li, Xianwei	Shanghai Jiao Tong Univ.	
► SuB16-4	16:50–17:10	
<i>Containment Control for Asynchronous Sampled-data Second-order Multi-agent Systems under Switching Topologies</i>		
Xia, Hong	Univ. of Electronic Sci. & Tech. of China	
Shi, Lei	Univ. of Electronic Sci. & Tech. of China	
Gong, Lisha	Univ. of Electronic Sci. & Tech. of China	
Xu, Ziqliang	Univ. of Electronic Sci. & Tech. of China	
► SuB16-5	17:10–17:30	
<i>Bipartite Containment Tracking in Second-order Multi-agent Systems over Switching Cooperation-competition Networks</i>		
Chen, Shuning	Univ. of Electronic Sci. & Tech. of China	
Chen, Lulu	Univ. of Electronic Sci. & Tech. of China	
Shao, Jinliang	Univ. of Electronic Sci. & Tech. of China	
Zheng, Wei Xing	Western Sydney Univ.	
► SuB16-6	17:30–17:50	
<i>Scaled Leader-following Consensus of Networked Agents under Packet Losses</i>		
Ren, Jingrong	Univ. of Electronic Sci. & Tech.	
Li, Tong	Univ. of Electronic Sci. & Tech. of China	
Shi, Lei	Univ. of Electronic Sci. & Tech. of China	
Shao, Jinliang	Univ. of Electronic Sci. & Tech. of China	
► SuB16-7	17:50–18:10	
<i>A Novel Distributed Adaptive Output-Feedback Consensus Protocol for Linear Multi-Agent Systems</i>		
Xue, Xiangming	North Carolina State Univ.	
Wu, Fen	North Carolina State Univ.	
► SuB16-8	18:10–18:30	
<i>Fixed-Time Rigidity-Based 3-D Formation Maneuvering Control with Distributed Finite-time Velocity Estimators</i>		
Tan, Wenbo	Hangzhou Dianzi Univ.	
Huang, Na	Peking Univ.	
Huang, Chao	Zhejiang Univ.	
Yu, Changbin	Westlake Univ.	
Zhong, Chaoliang	Hangzhou Dianzi Univ.	

SuB17	15:50–18:10	Room 3406, Block 3
Invited Session: Control and Filtering for Network-Based Systems with Complexities		
Organizer: Tian, Engang	Nanjing Normal Univ.	
Organizer: Song, Yan	Univ. of Shanghai for Sci. & Tech.	
Chair: Tian, Engang	Nanjing Normal Univ.	
Co-Chair: Song, Yan	Univ. of Shanghai for Sci. & Tech.	
Co-Chair: An, Jianqi	China Univ. of GeoSci.	
► SuB17-1	15:50–16:10	
<i>Finite-Horizon Fault Estimation with Round-Robin Protocols and Uniform Quantization Effects</i>		
Ju, Yamei	Univ. of Shanghai for Sci. & Tech.	
Wei, Guoliang	Univ. of Shanghai for Sci. & Tech.	
Liu, Shuai	Univ. of Shanghai for Sci. & Tech.	
Zhang, Sunjie	Univ. of Shanghai for Sci. & Tech.	
► SuB17-2	16:10–16:30	
<i>Improved Latent Factor Models for Undirected and Sparse Networks with Large Scales</i>		
Li, Ming	Univ. of Shanghai for Sci. & Tech.	
Song, Yan	Univ. of Shanghai for Sci. & Tech.	
Yang, Guisong	Univ. of Shanghai for Sci. & Tech.	
Wei, Guoliang	Univ. of Shanghai for Sci. & Tech.	
► SuB17-3	16:30–16:50	
<i>Less Conservative Observer-Based Output Feedback MPC for T-S Fuzzy System with Data Loss and Bounded Disturbance</i>		
Ni, Maowei	Nanjing Univ. of Post & Telecommunication	
Xie, Xiangpeng	Nanjing Univ. of Posts & Telecommunications	
Yue, Dong	Huazhong Univ. of Sci. & Tech.	
► SuB17-4	16:50–17:10	
<i>Relaxed Peak-to-Peak Filtering Design for Networked Nonlinear DC Motor Systems with Quantization</i>		
Xia, Jianfeng	Nanjing Univ. of Posts & Telecommunications	
Xie, Xiangpeng	Nanjing Univ. of Posts & Telecommunications	
Yue, Dong	Huazhong Univ. of Sci. & Tech.	
► SuB17-5	17:10–17:30	
<i>Dynamic Event-triggered Communication Based Fault Detection for Networked Singularly Perturbed Systems</i>		
Han, Tizhuang	China Univ. of GeoSci.	
Wan, Xiongbo	China Univ. of GeoSci.	
An, Jianqi	China Univ. of GeoSci.	
► SuB17-6	17:30–17:50	
<i>H-infinity Fuzzy PID Control under Try-Once-Discard Protocol</i>		
Wang, Yezheng	Shandong Univ. of Sci. & Tech.	
Wang, Zidong	Tsinghua Univ.	
Zou, Lei	Shandong Univ. of Sci. & Tech.	
Liu, Hongjian	Donghua Univ.	
► SuB17-7	17:50–18:10	
<i>Gradient-based Stochastic Extremum Seeking for Static Maps with Delays</i>		
Yang, Xiao	Univ. of Electronic Sci. & Tech. of China	
Yin, Chun	Univ. of Electronic Sci. & Tech. of China	
Cheng, Yu Hua	Univ. of Electronic Sci. & Tech. of China	
Wang, Peng	Univ. of Electronic Sci. & Tech. of China	
Huang, Xuegang	China Aerodynamics Research & Development Center	
Zhong, Shouming	Univ. of Electronic Sci. & Tech. of China	
SuB18	15:50–17:50	Room 3407, Block 3
Invited Session: Analysis, Control and Applications of Complex Network Systems (1)		
Organizer: Wang, Jin-Liang	BUAA	
Organizer: Wu, Huai-Ning	Beijing Univ. of Aeronautics & Astronautics	
Organizer: Chen, Wu-Hua	Guangxi Univ.	
Chair: Wu, Huai-Ning	Beijing Univ. of Aeronautics & Astronautics	
Co-Chair: Xu, Nuo	Tianjin Polytechnic Univ.	
► SuB18-1	15:50–16:10	
<i>Pinning Passivity of Reaction-Diffusion Neural Networks with and without Time-Varying Delay</i>		
Yue, Chen-Xu	Southwest Univ.	
Duan, Shukai	Southwest Univ.	
Wang, Lidan	Southwest Univ.	
► SuB18-2	16:10–16:30	
<i>Fixed-time Synchronization of Time-varying Delayed Stochastic Neural Network and Its Application to Secure Communication</i>		
Xie, Chengrong	Yunyang Teacher's College	
Wu, Yuning	Nanjing Audit Univ.	
Yu, Sunqiang	Nanjing Audit Univ.	
You, Guoqiao	Nanjing Audit Univ.	
Xu, Yuhua	College Information Sci. & Tech., Donghua Univ.	
► SuB18-3	16:30–16:50	
<i>General Decay Synchronization of Multi-Weighted Coupled Reaction-Diffusion Neural Networks with and without Time-Varying Delays</i>		
Lu, Jianmou	Tianjin Polytechnic Univ.	
Huang, Yanli	Tianjin Polytechnic Univ.	
Ren, Shun-Yan	Tianjin Polytechnic Univ.	
Liu, Dongfang	Tianjin Tianhang Wisdom Tech. Co., Ltd	
► SuB18-4	16:50–17:10	
<i>Finite-time Stabilization Control of Complex-valued Neural Networks with Discontinuous Activation Functions and Time Delay</i>		
Wang, Zengyun	Hunan First Normal Univ.	
► SuB18-5	17:10–17:30	
<i>PDC Controller Design for Hybrid System Based on Markov Jump Parameters with Time-varying Delays</i>		
Xu, Nuo	Tianjin Polytechnic Univ.	
Sun, Liankun	Tianjin Polytechnic Univ.	
► SuB18-6	17:30–17:50	
<i>Synchronization and H-infinity Synchronization of Multi-weighted Coupled Neural Networks with Event-triggered Communication</i>		
Wang, Yihao	Tianjin Polytechnic Univ.	
Huang, Yanli	Tianjin Polytechnic Univ.	
Ren, Shun-Yan	Tianjin Polytechnic Univ.	
Lu, Jianmou	Tianjin Polytechnic Univ.	
Liu, Dongfang	Tianjin Tianhang Wisdom Tech. Co., Ltd	
SuB19	15:50–17:50	Room 3408, Block 3
Invited Session: Intelligent Control for Autonomous Systems		
Organizer: Chen, Mou	NUAA	
Organizer: Xu, Dezhi	Jiangnan Univ.	
Chair: Chen, Mou	NUAA	
Co-Chair: Xu, Dezhi	Jiangnan Univ.	
► SuB19-1	15:50–16:10	
<i>Adaptive Backstepping Control for Uncertain Nonlinear Systems of Vehicle Based on Recurrent Perturbation Fuzzy Neural Networks Disturbance Observer</i>		
Chen, Xia	Univ. of Jinan	
Zhou, Peng	Shandong Branch of China Unicom	
Zhang, Qiang	Univ. of Jinan	
Liu, Subing	Zhengzhou Profession Technical Inst. of Electronic & Information	
► SuB19-2	16:10–16:30	
<i>A Sliding Mode Altitude Flight Control for A Class of Tilting Wing Aircraft in Transition Flight Stage</i>		
Wu, Jianjian	Nanchang Hangkong Univ.	
Qi, Wang	Nanchang Hangkong Univ.	
Liu, Yang	Nanchang Hangkong Univ.	
Li, Zhihan	Nanchang Hangkong Univ.	
► SuB19-3	16:30–16:50	
<i>Improved Finite Control Set Model Predictive Control for Permanent Magnet Synchronous Motor Drives</i>		
Zhang, Wentao	JiangNan Univ.	
Yang, Weilin	Jiangnan Univ.	
Yan, Wenxu	Jiangnan Univ.	
Xu, Dezhi	Jiangnan Univ.	
► SuB19-4	16:50–17:10	
<i>Study of Fast Orthogonal Search for Fault Detection in Multi-inertial Sensors Frame</i>		
Qiu, Haiyang	Jiangsu Univ. of Sci. & Tech.	
Wang, Hui	Jiangsu Univ. of Sci. & Tech.	
Zhu, Jin	Jiangsu Univ. of Sci. & Tech.	
Wu, Yunkai	Jiangsu Univ. of Sci. & Tech.	
Xue, Wentao	Jiangsu Univ. of Sci. & Tech.	
► SuB19-5	17:10–17:30	
<i>Integrated Positioning and Obstacle Avoidance for Multi-Quadrotors in An Indoor Office Environment</i>		

Yan, Jiaxin Yang, Xiao-Fei Ye, Hui Wang, Zhe	Jiangsu Univ. of Sci. & Tech. Jiangsu Univ. of Sci. & Tech. Jiangsu Univ. of Sci. & Tech. Jiangsu Univ. of Sci. & Tech.		16:10–16:30
► SuB19-6 <i>Flight Envelope Predicting Algorithm for UAV Based on UKF</i>	17:30–17:50		
Lu, Shu-Min Chen, Mou Li, Mingsuo	Nanjing Univ. of Aeronautics & Astronautics NUAA Luoyang Inst. of Electro-Optical Equipment of Avic		
SuB20	15:50–18:10	Room 3409, Block 3	
Invited Session: Sustainable Energy Control and Smart Energy			
Organizer: Sun, Qiuye Chair: Sun, Qiuye Co-Chair: Mi, Yang Co-Chair: Gui, Yonghao	Northeastern Univ. Northeastern Univ. Shanghai Univ. of Electric Power Aalborg Univ.		
► SuB20-1 <i>A Novel Multi-Objective Optimization Model for Integrated Photovoltaic/Hydroelectric Power Generation Operation</i>	15:50–16:10		
Ding, Shidong Zeng, Pingliang Xing, Hao Yang, Jingqi Zhou, Qinyong	Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. China Electric Power Research Inst. China Electric Power Research Inst.		
► SuB20-2 <i>Artificial Intelligence Approaches to Fault Diagnosis in Power Grids: A Review</i>	16:10–16:30		
Chai, Erxuan Zeng, Pingliang Ma, Shicong Xing, Hao Zhao, Bing	Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. China Electric Power Research Inst. Hangzhou Dianzi Univ. China Electric Power Research Inst.		
► SuB20-3 <i>Hierarchical Control Strategy for Distributed Energy Storage Units in Isolated DC Microgrid</i>	16:30–16:50		
Han, Yun Hao Mi, Yang	Shang Hai Univ. of Electric Power Shanghai Univ. of Electric Power		
► SuB20-4 <i>The Voltage and Frequency Coordinated Control for Wind-Diesel Hybrid Power System Based on Sliding Mode Method</i>	16:50–17:10		
Han, Yun Hao Mi, Yang	Shang Hai Univ. of Electric Power Shanghai Univ. of Electric Power		
► SuB20-5 <i>Topology Reconfiguration for Cyber-physical Energy System with Multi-source Interference</i>	17:10–17:30		
Shan, Qihe Teng, Fei	Dalian Maritime Univ. Northeastern Univ.		
► SuB20-6 <i>Sliding Mode Control with Grid Voltage Modulated Direct Power Control for Three-Phase AC-DC Converter</i>	17:30–17:50		
Gui, Yonghao Bendtsen, Jan Stoustrup, Jakob	Aalborg Univ. Aalborg Univ. Aalborg Univ.		
► SuB20-7 <i>Game-based Distributed Charging Control for Electric Vehicles in A Photovoltaic Charging Station</i>	17:50–18:10		
Cui, Shichang Wang, Yan-Wu Xiao, Jiang-Wen	Huazhong Univ. of Sci. & Tech. Huazhong Univ. of Sci. & Tech. Huazhong Univ. of Sci. & Tech.		
SuB21	15:50–17:50	Room 3410, Block 3	
Invited Session: DEDS and Its Simulation & Optimization (2)			
Organizer: Zhao, Qianchuan Organizer: Xia, Li Organizer: Peng, Yijie Chair: Peng, Yijie Co-Chair: Xu, Zhanbo	Tsinghua Univ. Sun Yat-Sen Univ. Peking Univ. Peking Univ. Xi'an Jiaotong Univ.		
► SuB21-1 <i>A Decentralized Continuous Estimation of Distribution Algorithm for Networked Systems</i>	15:50–16:10		
Bian, Aizhe Chen, Xi	Tsinghua Univ. Tsinghua Univ.		
► SuB21-2 <i>CART决策树方法在煤电厂节能降耗中的应用</i>	16:10–16:30		
		<i>Application of CART Model in Reducing Coal Consumption in Coal Power Plant</i>	
Zhang, Junyu Hu, Jiahao	Sun Yat-Sen Univ. Sun Yat-Sen Univ.		
► SuB21-3 <i>Deadlock-free Genetic Scheduling Algorithm for Flexible Manufacturing Systems with Key Resources</i>	16:30–16:50		
Liu, Huixia Han, Xiaofei Yang, Hong-Yong Ma, Wenhao Wang, Chuang	Xi'an Jiaotong Univ. Ludong Univ. Ludong Univ. Ludong Univ. Ludong Univ.		
► SuB21-4 <i>基于室内人员分布和热舒适性动态感知的建筑能源系统运行优化</i>	16:50–17:10		
		<i>Indoor Occupants Distribution and Thermal Comfort-based Operation Optimization of Building Energy Systems</i>	
Xu, Zhanbo Zhou, Chunxiang Wang, Xukun Su, Ying Zhou, Yadong	Xi'an Jiaotong Univ. Xi'an Jiaotong Univ. Xi'an Jiaotong Univ. Xi'an Jiaotong Univ. Xi'an Jiaotong Univ.		
► SuB21-5 <i>Exploration Methods Combination in Multi-Actor Deep Reinforcement Learning</i>	17:10–17:30		
Guan, Jinyu Tang, Hao	Hefei Univ. of Tech. Hefei Univ. of Tech.		
► SuB21-6 <i>Learning Reward with Guided Maximum Entropy Inverse Reinforcement Learning and Its Application in Autonomous Driving</i>	17:30–17:50		
Liu, Xiao Liu, Kai Li, Yanjie	Harbin Univ. of Tech. (Shenzhen) Harbin Inst. of Tech. Shenzhen Graduate School Harbin Inst. of Tech. Shenzhen Graduate School		
SuB22	15:50–18:10	Room 3411, Block 3	
Invited Session: Advances in Disturbance/Uncertainty Estimation and Attenuation Techniques with Applications (2)			
Organizer: Li, Shihua Organizer: Yang, Jun Organizer: Guo, Lei Chair: Guo, Lei Co-Chair: Yang, Jun	Southeast Univ., China Southeast Univ. Beihang Univ. Beihang Univ. Southeast Univ.		
► SuB22-1 <i>Sliding Mode Control with Extended State Observer for Multi-axis Motion Control System</i>	15:50–16:10		
Zhou, Dan Gui, Jianwei Yang, Jun Li, Shihua Cao, Weili	Southeast Univ. Southeast Univ. Southeast Univ. Southeast Univ., China Jiangsu Automation Research Inst.		
► SuB22-2 <i>Comparison of the Phase Margins of Different ADRC Designs</i>	16:10–16:30		
Zhong, Sheng Huang, Yi	Acad. of Mathematics & Sys. Sci. Chinese Acad. of Sci.		
► SuB22-3 <i>Analysis of Linear Active Disturbance Rejection Control for Time-Delay Plants with Nyquist Plot</i>	16:30–16:50		
Ni, Gang Jin, Huiyu Lan, Weiyao	Xiamen Univ. Xiamen Univ. Xiamen Univ.		
► SuB22-4 <i>Nonsingular Terminal Sliding Mode Control for Fuel Quantity Actuator System Using High-order Sliding Mode Observer</i>	16:50–17:10		
Hu, Jianpei Hao, Sun Li, Shihua	Southeast Univ. Southeast Univ. Southeast Univ., China		
► SuB22-5 <i>Anti-Disturbance Tracking Control of Non-Gaussian Stochastic Distribution Systems with Input Saturation</i>	17:10–17:30		
Gu, Xiang Liu, Bei	Yangzhou Univ. Yangzhou Univ.		

Niu, Chengbo Yi, Yang	Yangzhou Univ. Yangzhou Univ.	<i>Nonlinear Vehicles in PLEXE</i>	Chang'an Univ. Chang'an Univ.
► SuB22-6 <i>A Characteristic Model-based Anti-disturbance Intelligent Adaptive Control Law for Systems with Multiple Disturbances</i>	17:30–17:50 Beihang Univ. Beihang Univ.	Liu, Xiaomin Yan, Maode Zuo, Lei Ma, Wenrui	Chang'an Univ. Chang'an Univ. Chang'an Univ. Chang'an Univ.
► SuB22-7 <i>Rotor Unbalance Vibration Suppression for MSCMG Using Composite Anti-disturbance Control Method</i>	17:50–18:10 Beihang Univ. Beihang Univ.	Guo, Chen Han, Yanan Yu, Haomiao Sun, Junsong	Dalian Maritime Univ. Dalian Maritime Univ. Dalian Maritime Univ. Dalian Maritime Univ.
Liu, Yifan Liu, Gang Xie, Jinjin Zheng, Shiqiang	Beihang Univ. Beihang Univ. Shanghai Inst. of Satellite Engineering Beihang		
SuB23 16:10–17:30	Room 3412, Block 3 Invited Session: Synthesis and Control of Non-smooth Complex Systems		
Organizer: Wu, Yuhu Organizer: Shen, Tielong Chair: Wu, Yuhu Co-Chair: Cui, Yuxin	Dalian Univ. of Tech. Sophia Univ. Dalian Univ. of Tech. Harbin Univ. of Sci. & Tech.	Gu, Nan Liu, Yunjie Peng, Zhouhua Liu, Lu Wang, Dan	Dalian Maritime Univ. Dalian Maritime Univ. Dalian Maritime Univ. Dalian Maritime Univ. Dalian Maritime Univ.
► SuB23-1 <i>Distributed Optimization over Directed Graphs with Continuous-Time Algorithm</i>	16:10–16:30 Harbin Inst. of Tech., Weihai Harbin Inst. of Tech., Weihai		
► SuB23-2 <i>Optimal Control of Fractional-order Switching Stochastic Systems</i>	16:30–16:50 Dalian Univ. of Tech. Dalian Univ. of Tech. Harbin Inst. of Tech.		
► SuB23-3 <i>Design of Sliding Mode Controller Based on High-Gain Observer of Inverted Pendulum on A Cart</i>	16:50–17:10 Dalian Univ. of Tech. Dalian Univ. of Tech. Dalian Univ. of Tech.		
► SuB23-4 <i>Reachability of Probabilistic Boolean Multiplex Control Networks</i>	17:10–17:30 Harbin Univ. of Sci. & Tech. Harbin Univ. of Sci. & Tech.	Duan, Peihu Duan, Zhisheng	Peking Univ. Peking Univ.
SuB24 15:50–17:50	Room 3413, Block 3 Invited Session: Guidance, Control, and Coordination of Marine Vehicles		
Organizer: Cui, Rongxin Organizer: Peng, Zhouhua Organizer: Xiang, Xianbo Chair: Zhang, Weidong Co-Chair: Yang, Huizhen	Northwestern Polytechnical Univ. Dalian Maritime Univ. Huahzong Univ. of Sci. & Tech. Shanghai Jiao Tong Univ. Northwestern Polytechnical Univ.	Wang, Qishao Duan, Zhisheng	Peking Univ. Peking Univ.
► SuB24-1 <i>Finite-Time Trajectory Tracking Control of MSV with Prescribed Transient Performance</i>	15:50–16:10 South China Univ. of Tech. South China Univ. of Tech. South China Univ. of Tech.	Zheng, Huqing Wang, Jingyao Zeng, Jianping	Xiamen Univ. Xiamen Univ. Xiamen Univ.
► SuB24-2 <i>Robust Finite Time Path Following Control for Underactuated Ships with Ship-to-Ship Avoidance Strategy</i>	16:10–16:30 Dalian Maritime Univ. Dalian Maritime Univ. Dalian Maritime Univ. Shanghai Jiao Tong Univ.	Ren, Yunxiao Duan, Zhisheng	College of Engineering, Peking Univ. Peking Univ.
► SuB24-3 基于资源均衡函数的异构多AUV任务分配方法研究	16:30–16:50 Northwestern Polytechnical Univ. Northwestern Polytechnical Univ. Northwestern Polytechnical Univ.		
Research on Heterogeneous Multi-AUV Task Assignment Method Based on Resource Balance Function		Li, Zhenxing Yan, Jun Yu, Wenwu Qiu, Jianlong	Linyi Univ. Concordia Univ. Southeast Univ. Linyi Univ.
► SuB24-4 <i>Sliding Mode Based Platoon Control and Simulation for A Group of</i>	16:50–17:10 Northwestern Polytechnical Univ. Northwestern Polytechnical Univ. Northwestern Polytechnical Univ.	Lv, Xiaoxu Hao, Yuqing Zhao, Yu Duan, Zhisheng	Peking Univ. Peking Univ. Northwestern Polytechnical Univ. Peking Univ.
		► SuB25-7 <i>Model Reference Switched Adaptive Control with Nonnegative Orthant State Constraints</i>	17:30–17:50 Delft Univ. of Tech. Southeast Univ. TU Delft Harbin Inst. of Tech.
		Lv, Maolong Yu, Wenwu Baldi, Simone Zhang, Fan	

SuB26	15:50–17:50	Room 3416, Block 3	Ding, Shihong Pan, Tian-Hong Zhao, Dean	Jiangsu Univ. Anhui Univ. Jiangsu Univ.
Invited Session: Multi-Sensor Fusion Estimation with Applications				
Organizer: Sun, Shuli		Heilongjiang Univ.		
Organizer: Zhang, Wen'an		Zhejiang Univ. of Tech.		
Chair: Sun, Shuli		Heilongjiang Univ.		
Co-Chair: Zhang, Wen'an		Zhejiang Univ. of Tech.		
► SuB26-1	15:50–16:10			
<i>A Set-Membership Filter with Box Bounding for Nonlinear Biased Dynamic Systems</i>				
Wang, Junyi		Sichuan Univ.		
Meng, Fanqin		Sichuan Univ.		
Liu, Haiqi		Sichuan Univ.		
Shen, Xiaojing		Sichuan Univ.		
► SuB26-2	16:10–16:30			
<i>Self-Tuning Fusion Filter for Multi-Sensor Systems with Unknown Packet Receiving Rates</i>				
Wang, Minhui		Heilongjiang Univ.		
Sun, Shuli		Heilongjiang Univ.		
► SuB26-3	16:30–16:50			
<i>Distributed Weighted Fusion Robust White Noise Deconvolution Estimators for Multisensor Systems with Mixed Uncertainties</i>				
Liu, Wenqiang		Heilongjiang Univ. of Sci. & Tech.		
Fan, Yajing		Heilongjiang Univ. of Sci. & Tech.		
Tao, Guili		Heilongjiang Univ. of Sci. & Tech.		
Zhang, Guiqiang		Heilongjiang Univ. of Sci. & Tech.		
► SuB26-4	16:50–17:10			
基于多传感器分布式融合的异构多机器人协作定位				
<i>Heterogeneous Multi-Robot Cooperative Localization Based on</i>				
Yang, Xusheng		Zhejiang Univ. of Tech.		
Liang, Xianpeng		Zhejiang Univ. of Tech.		
Zhang, Wen'an		Zhejiang Univ. of Tech.		
Qiu, Xiang		Zhejiang Univ. of Tech.		
Fu, Minglei		Zhejiang Univ. of Tech.		
Zhou, Minlong		Noblelift Intelligent Equipment Co., Ltd		
► SuB26-5	17:10–17:30			
<i>Distributed Fusion Estimation for Multi-rate Multi-sensor Time-delayed Systems with Fading Measurements</i>				
Lin, Honglei		Heilongjiang Univ.		
Sun, Shuli		Heilongjiang Univ.		
SuB27	15:50–17:50	Room 3418, Block 3		
Invited Session: Recent advances on analysis and synthesis of non-smooth control systems				
Organizer: Du, Haibo		Hefei Univ. of Tech.		
Organizer: Ding, Shihong		Jiangsu Univ.		
Organizer: Qian, Chunjiang		Univ. of Texas at San Antonio		
Chair: Du, Haibo		Hefei Univ. of Tech.		
Co-Chair: Ding, Shihong		Jiangsu Univ.		
► SuB27-1	15:50–16:10			
<i>A Nonsmooth Approach to Stabilization of Nonlinear Systems with An Output Constraint</i>				
Chen, Chih-Chiang		National Cheng Kung Univ.		
Chen, Guan-Shiun		National Cheng Kung Univ.		
Ding, Chi-Hsuan		National Cheng Kung Univ.		
► SuB27-2	16:10–16:30			
<i>A Homogenous Version of Gronwall-Bellman Inequality with Application To Sampled-data Stabilization of Nonlinear Systems</i>				
Du, Haibo		Hefei Univ. of Tech.		
Qian, Chunjiang		Univ. of Texas at San Antonio		
Li, Shihua		Southeast Univ., China		
► SuB27-3	16:30–16:50			
<i>Steering Feel Design for Steer-by-Wire System on Electric Vehicles</i>				
Wang, Jiawei		HeFei Univ. of Tech.		
Wang, Hai		Murdoch Univ.		
Jiang, Canghua		Hefei Univ. of Tech.		
Cao, Zhenwei		Swinburne Univ. of Tech.		
Man, Zhihong		-		
Chen, Long		Hangzhou Dianzi Univ.		
► SuB27-4	16:50–17:10			
<i>Finite-time Control for A Class of High-order Stochastic Nonlinear Systems with Output Constraints</i>				
Fang, Liandi		Jiangsu Univ.		
Ma, Li		Jiangsu Univ.		
Ding, Shihong Pan, Tian-Hong Zhao, Dean				
Poster Session PSuA				
July 28, 13:30–15:30				
Platform near the Century Convention Hall, 2nd Floor, Block 4				
Chair: Chen, Zengqiang				Nankai Univ.
Chair: Chu, Tianguang				Peking Univ.
Chair: Deng, Feiqi				South China Univ. of Tech.
Chair: Ding, Jinliang				Northeastern Univ.
Chair: Fang, Hai-Tao				Chinese Acad. of Sci.
▷ PSuA-01				
<i>Formation Deployment of Hybrid Control Search Algorithm for Multi-robot in Two-Dimensional Space</i>				
Zhu, Dezheng		The 28th Inst. of China Electronics Tech. Group Corporation		
Zhu, Weichao		28th Inst.		
Huan, Guoyang		The 28th Inst. of China Electronics Tech. Group Corporation		
▷ PSuA-02				
<i>Appointed-time Consensus Control of Multi-agent Systems for Vessel Steering under Directed and Periodical Switching Topologies</i>				
Gan, Jianpeng		Beijing Inst. of Tech.		
Wu, Qinghe		Beijing Inst. of Tech.		
▷ PSuA-03				
<i>Output Synchronization without Explicit Knowledge of Feedback Topologies</i>				
Zhang, Jilie		Southwest Jiaotong Univ.		
Zou, Ying-Quan		Southwest Jiaotong Univ.		
Gu, Guoxiang		Louisiana State Univ.		
▷ PSuA-04				
<i>Research on Consensus Formation Based on Double Closed-Loop Sliding Mode Control</i>				
Yan, Danghui		Northwestern Polytechnical Univ.		
Zhang, Weiguo		Northwestern Polytechnical Univ.		
Chen, Hang		Northwestern Polytechnical Univ.		
▷ PSuA-05				
<i>Admissible Consensus Tracking for Descriptor Multi-agent Systems with Exogenous Disturbances</i>				
Wang, Siqi		Harbin Engineering Univ.		
Zhang, Xuxi		Harbin Engineering Univ.		
Xu, Ning		Harbin Engineering Univ.		
▷ PSuA-06				
<i>Leader-following Consensus of Multi-agent Systems with Uncertain Weight Coupling Topological Graph Using Distributed Adaptive Iterative Learning Control</i>				
Yang, Nana		Lanzhou Univ. of Tech.		
Li, Junmin		Xidian Univ.		
Chen, Jiaxi		Xidian Univ.		
▷ PSuA-07				
<i>The Null-space-based Behavioral Control for A Swarm of Robots Tracking A Target Region in Obstacle Environments</i>				
Lan, Xuejing		Guangzhou Univ.		
Xu, Wenbiao		Guangdong Inst. of Metrology		
▷ PSuA-08				
基于一致性算法的航天器编队有限时间队形协同控制				
<i>Finite Time Coordinated Formation Control of Spacecraft Formation Using Consensus Algorithm</i>				
Ran, Dechao		National Univ. of Defense Tech.		
Cao, Lu		China Xian Satellite Control Center		
Sheng, Tao		National Univ. of Defense Tech.		
Yi, Wang		National Univ. of Defense Tech.		
▷ PSuA-09				
<i>Coordinated Path Following Control of Multiple Nonholonomic Mobile Robots with Prescribed Performance</i>				
Zhang, Yuwang		South China Univ. of Tech.		
Wang, Min		South China Univ. of Tech.		
▷ PSuA-10				
<i>Semi-Global Leader-Following Cluster Consensus Of Heterogeneous Systems With Input Saturation</i>				
Ren, Lu		Southeast Univ.		

Wang, Qingling Sun, Changyin	Southeast Univ. Southeast Univ.	Cui, Xuming	Guangdong Univ. of Tech.
▷ PSuA-11 <i>Admissible Consensus for DMAPS Based on An Observer-type Consensus Protocol with Output Feedback</i>			
Gao, Zhiyun Zhang, Huaguang Duan, Jie Cai, Yuliang	Northeastern Univ. Northeastern Univ., China Northeastern Univ. Control Sci. & Engineering	Li, Rui Zhao, Yangyang Ma, Qinghua	Tsinghua Univ. China North Industries 203 Inst. No.203 Research Inst. of China Ordnance Industries
▷ PSuA-12 <i>Privacy-Preservation in Online Distributed Dual Averaging Optimization</i>			
Wang, Wei Li, Dequan Wu, Xiongjun	Anhui Univ. of Sci. & Tech. Anhui Univ. of Sci. & Tech. National Defense Key Laboratory of Sci. & Tech. on Electromagnetic Scattering, the 802 Inst. of Shanghai Acad. of Space Flight Tech.	Zhou, Yanying Zhang, Guoshan	Tianjin Univ. Tianjin Univ.
▷ PSuA-13 加权的合作竞争关系下耦合谐波振荡器的集群趋同 <i>Cluster Consensus of Coupled Harmonic Oscillators with Weighted Cooperative-Competitive Interactions</i>			
Liu, Tianya Ma, Cui-Qin	Qufu Normal Univ. Qufu Normal Univ.	Rong, Lina Wang, Jinfei	Nanjing Univ. of Posts & Telecommunications Nanjing Univ. of Posts & Telecommunications
▷ PSuA-14 基于状态估计的动态环境持续监控问题路径规划 <i>Estimation-based Path Planning for Dynamic Environment Monitoring</i>			
Li, Na Xi, Zairong	Chinese Acad. of Sci. Chinese Acad. of Sci.	Yu, Fengmin Yu, Nanxiang Ji, Lianghai	Chongqing Univ. of Posts & Telecommunications Chongqing Univ. of Posts & Telecommunications Chongqing Univ. of Posts & Telecommunications
▷ PSuA-15 <i>Tangential-Force-Based Collision-free Formation Control for Non-holonomic Mobile Robots</i>			
Deng, Yunshan Long, Teng Wang, Zhu Xu, Guangtong Cao, Yan	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.	Li, Guangqi Qin, Jiahua Wang, Long	Xidian Univ. Univ. of Sci. & Tech. of China Peking Univ.
▷ PSuA-16 <i>Self-triggered Consensus for Second-order Leaderless Multi-agent Systems</i>			
Liu, Shang Zhou, Yingjiang Jiang, Guoping Yang, Yang Ge, Sheng-Yu	Nanjing Univ. of Posts & Telecommunications Nanjing Univ. of Posts & Telecommunications	Wang, Yuanda Sun, Jia Wang, Qingling Dong, Lu	Southeast Univ. Univ. of Sci. & Tech. Beijing Southeast Univ. Southeast Univ.
▷ PSuA-17 <i>Resilient Consensus of Second-Order Multi-Agent Systems Based on WiFi Signals</i>			
Jiang, Ying Li, Dequan Wu, Xiongjun	Anhui Univ. of Sci. & Tech. Anhui Univ. of Sci. & Tech. National Defense Key Laboratory of Sci. & Tech. on Electromagnetic Scattering, the 802 Inst. of Shanghai Acad. of Space Flight Tech.	Tian, Yuan Liu, Shiyue	Beijing Inst. of Tech. Beijing Inst. of Tech.
▷ PSuA-18 <i>New Network-based Leader-following Consensus Criteria for Nonlinear Multi-agent Systems</i>			
Zhang, Jin Gao, Yanbo	Nantong Inst. of Tech. Nantong Univ.	Zhu, Xiaoxia Yuan, Xin Wang, Yuanda Sun, Changyin	Southeast Univ. Southeast Univ. Southeast Univ. Southeast Univ.
▷ PSuA-19 <i>Fixed-time Consensus for Leader-following Multi-groups Of multi-agent Systems with Unknown Non-linear Inherent Dynamics</i>			
Fan, Shuangshuang Guo, Yanping Ji, Yude	Hebei Univ. of Sci. & Tech. Hebei Univ. of Sci. & Tech. Hebei Univ. of Sci. & Tech.	Dai, Chiming Liu, Lixia Miao, Zhonghua Zhou, Jin	Shanghai Univ. Shanghai Univ. Shanghai Univ. Shanghai Univ.
▷ PSuA-20 <i>Adaptive Neural Consensus Tracking Control of Uncertain Nonlinear Multi-agent Systems with Unknown Output Dead-zone</i>			
Yang, Hainan Lian, Yingzhan Guo, Li Hong, Zhucai Xu, Zhenyi	Guangdong Univ. of Tech. Guangdong Univ. of Tech. Guangdong Univ. of Tech. Guangdong Univ. of Tech. Guangdong Univ. of Tech.	Han, Le Lin, Yeming Liu, Kun Cui, Bing Xia, Yuanqing	Beijing Inst. of Tech. Beijing Inst. of Tech. School of Automation, Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.
▷ PSuA-22 <i>Field-of-View Constrained Cooperative Guidance Law for Simultaneous Attack with Multiple Missiles</i>			
▷ PSuA-23 <i>Adaptive Finite-Time Consensus for Multi-Agent Systems with Input Constraints</i>			
▷ PSuA-24 <i>Fully Distributed Event-based Adaptive Control for Consensus Disturbance Rejection</i>			
▷ PSuA-25 <i>Cluster Consensus for A Class of Delayed Discrete Time Multi-agent Systems</i>			
▷ PSuA-26 <i>Consensus of Heterogeneous Multi-agent Systems under Switching Directed Topologies</i>			
▷ PSuA-27 <i>Distributed Formation Control for Multi-quadrotor System</i>			
▷ PSuA-28 一种分布式多机器人系统协同巡逻算法研究 <i>On Cooperative Patrol Algorithm of Distributed Multi-Robot System</i>			
▷ PSuA-29 <i>Reinforcement Learning Consensus Control for Discrete-Time Multi-Agent Systems</i>			
▷ PSuA-30 <i>Distributed Formation Control for A Group of Multiple Nonholonomic Mobile Robots</i>			
▷ PSuA-31 <i>Formation Control via Linear Quadratic Differential Game with Model Uncertainties and Unknown Disturbances</i>			
▷ PSuA-32 <i>Multi-UAV Cooperative Target Tracking Strategy Based on Formation</i>			

<i>Control</i>			
Wang, Duo	China Acad. of Launch Vehicle Tech.	Liu, Jiwei	Communication Univ. of China
Peng, Zhihong	Beijing Inst. of Tech.	Min, Suqin	Communication Univ. of China
Ju, Xiaojie	China Acad. of Launch Vehicle Tech.	Jin, Mengdi	Communication Univ. of China
Yu, Tao	China Acad. of Launch Vehicle Tech.	▷ PSuA-45	
Wang, Xue	China Acad. of Launch Vehicle Tech.	<i>Robust Consensus for Linear Multi-Agent Systems over Randomly Switching Topologies</i>	
▷ PSuA-33		Lin, Chengrong	Fuzhou Univ.
<i>Multi-point Laser Automatic Oblique Angle Shooting Correction System Based on Image Processing</i>		Huang, Wenchao	Fuzhou Univ.
Dong, Lin	Beijing Inst. of Tech.	Huang, Yanwei	Fuzhou Univ.
Xu, Xiangyang	Beijing Inst. of Tech.	Chen, Shaobin	Fuzhou Univ.
Xu, Yanyan	Beijing Inst. of Tech.	▷ PSuA-46	
▷ PSuA-34		<i>Quantitative Evaluation of Intrinsic Diagnosability for Dynamic Systems</i>	
<i>Underdetermined Blind Source Separation of Speech Mixtures Based on K-means Clustering</i>		Fu, Fang-Zhou	China Acad. of Space Tech.
Xie, Yuan	Guangdong Univ. of Tech.	Wang, Dayi	China Acad. of Space Tech.
Xie, Kan	Guangdong Univ. of Tech.	Li, Wenbo	Beijing Inst. of Control Engineering
Wu, Zongze	Guangdong Univ. of Tech.	▷ PSuA-47	
Xie, Shengli	Guangdong Univ. of Tech.	<i>A New Optimization Method for Aggregated Model Reduction</i>	
▷ PSuA-35		Gao, Zunhai	Wuhan Polytechnic Univ.
<i>Formation Tracking Control for Multi-agent Systems on Directed Graphs</i>		Chen, Zhuo	Wuhan Polytechnic Univ.
Xu, Yifeng	Beijing Univ. of Chemical Tech.	Forrest, Jeffrey	Slippery Rock Univ. of Pennsylvania
Wang, Zhenmin	BeiHang Univ.	Chen, Yongxiang	Wuhan Polytechnic Univ.
Chen, Juan	Beijing Univ. of Chemical Tech.	▷ PSuA-48	
▷ PSuA-36		Tanaka, Ryo	Kurume College
<i>Bernstein Bezout Matrix with Applications to the Generalized Lienard-Chipart Stability Criterion</i>		Koga, Tetsunori	Kurume College
Wu, Huazhang	Anhui Univ.	▷ PSuA-49	
Shen, Xiaoting	Anhui Univ.	<i>Adaptive Finite-time Tracking Control for One-link Manipulator with Fuzzy Boundary Constraints</i>	
▷ PSuA-37		Chen, Ming	Univ. of Sci. & Tech. Liaoning
<i>Optimal State Regulator Analysis for Discrete-time LTI Systems: A Sub-region Control Approach</i>		Li, Xiaohua	Univ. of Sci. & Tech. Liaoning
Cheng, Fuheng	HuiZhou Univ.	▷ PSuA-50	
Chen, Zhi-Ming	Huizhou Univ.	<i>Multi-PI Control of Hammerstein-Wiener Systems</i>	
Long, Dafeng	Huizhou Univ.	Du, Jingjing	Hohai Univ.
▷ PSuA-38		Zhang, Lei	Nanjing Univ. of Posts & Telecommunications
<i>A Distributed State Estimation Algorithm for Linear Dynamic Systems with Cross-Correlated Noises</i>		Li, Jian	Hohai Univ.
Sun, Yibing	Univ. of Jinan	Jia, Jing	Hohai Univ.
Zhao, Yige	Univ. of Jinan	▷ PSuA-51	
▷ PSuA-39		<i>Four Bar Linkage Optimization Design Based on the Finite-time Recurrent Neural Network</i>	
<i>Distributed State Estimation for Systems with Communication Noises and Delays</i>		Wang, Lei	Zhengzhou College of Sci. & Tech.
Gao, Weinan	Shandong Univ.	Miao, Peng	Zhengzhou College of Sci. & Tech.
Wang, Wei	Shandong Univ.	Zhang, Zhiqiang	Zhengzhou Chenggong Univ. of Finance & Economics
Han, Chunyan	Univ. of Jinan	▷ PSuA-52	
▷ PSuA-40		<i>Parameter Identification and Hysteresis Compensation for Piezoelectric Stack Based on Bouc-Wen Model Using Genetic Algorithm</i>	
<i>Asymptotic Predictive Scheme for the Control of Linear Systems with Input Delay and Disturbance</i>		Zhou, Yijia	Shanghai Univ.
Yu, Xin	Jiangsu Univ.	Hu, Jiaming	Shenyang Aerospace Univ.
Shi, Shang	Nanjing Univ. of Sci. & Tech.	Huang, Yonghui	Shanghai Univ.
▷ PSuA-41		Li, Xiangmin	Shanghai Univ.
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Fu, Rong	Xiamen Univ. of Tech.	Fu, Mingyu	Harbin Engineering Univ.
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<i>The Random Weakening Buffer Sequence and Its Application in GM (1,1) Model</i>		Xie, Mingwei	CARDC

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 Zhao, Ming Shenyang Inst. of Automation
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 Peng, Yuhao Electronic Information Engineering
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 Pang, Lei Chao China Univ. of GeoSci.
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Yuan, Changsheng Zhou, Xuesong Ma, Youjie	Tianjin Univ. of Tech. TianJin Univ. of Tech. TianJin Univ. of Tech.	Zhang, Xunshou Zhang, Liguo	Beijing Univ. of Tech. Beijing Univ. of Tech.
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Xie, Qian Mu, Changhui Li, Yang Wu, Gang Jia, Rong	Xi'an Univ. of Tech. Xi'an Univ. of Tech. PetroChina Changqing Oilfield Company PetroChina Changqing Oilfield Company Inst. of Water Resources & Hydro-electric Engineering	Zhao, Zhixin Tang, Hui Guo, Lina	Changchun Normal Univ. Changchun Normal Univ. Taiyuan Univ. of Tech.
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Li, Huanting Peng, Yunfei	Guizhou Univ. Guizhou Univ.	Li, Boren	Dongguan Univ. of Tech., Dongguan
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Wang, Jing	Engineering Univ. of the Chinese Peoples Armed Police Force	Zhang, Lang Long, Fei	Guizhou Univ. Guizhou Univ.
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		Jia, Shengsen Liu, Kunming Wei, Yunliang	Qufu Normal Univ. Qufu Normal Univ. Qufu Normal Univ.
		▷ PSuA-103	<i>列车编队运行队列稳定性分析</i>
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		Chen, Mingliang Ning, Bin Xun, Jing Yang, Ye	Beijing Jiaotong Univ. Beijing Jiaotong Univ. Beijing Jiaotong Univ. Traffic Control Tech. Co. Ltd
		▷ PSuA-104	<i>Stability Analysis of Nonlinear Teleoperation Systems with Time-Varying Delays via A Delay-Product-Type Functional</i>
		Guo, Xiao-Hui	China Univ. of GeoSci.

Zhang, Chuan-Ke He, Yong	China Univ. of GeoSci. China Univ. of GeoSci.	Liu, Zixing Wang, Ziyun Wang, Yan Ji, Zhicheng	Jiangnan Univ. Jiangnan Univ. Jiangnan Univ. Southern Yangtze Univ.
▷ PSuA-105 <i>The Stability Analysis of A Class of Numerical Schemes for Partial Differential Systems</i>			
Cong, Xinrong Zhang, Shuxia Li, Longsuo	Beijing Tech. & Business Univ. Jiangsu Normal Univ. Harbin Inst. of Tech.	Pan, Chenyang Xi, Yunhua Hu, Yang	North China Electric Power Univ. (Beijing) North China Electric Power Univ. North China Electric Power Univ.
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Pu, Xing-Cheng Huang, Kun-Peng	Chongqing Post & Telecommunication Univ. Chongqing Univ. of Posts & Telecommunications	Guo, Qingqiang Deng, Yuxi Li, Gang	Shandong Univ. Shandong Univ. Shandong Univ.
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Liu, Hanwen Shen, Lijuan	Tongji Univ. Tongji Univ.	Wang, Xiuuhong Guo, Tianjun Hao, Wei Guo, Qingqiang	Shandong College of Electronic Tech. Shandong Univ. Shandong College of Electronic Tech. Shandong Univ.
▷ PSuA-109 <i>Stability of the Drift-randomized Milstein Method for A Class of Non-autonomous Stochastic Differential Equations</i>			
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Ma, Pingping Sheng, Li	China Univ. of Petroleum (East China) China Univ. of Petroleum (East China)	Yang, Wei Yan, Qing Wu, Xiaohui Zhang, Hua	Chongqing Univ. of Tech. Chongqing Univ. of Tech. Chongqing Univ. of Tech. Chongqing Univ. of Tech.; Tongren Univ.
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Wang, Fang Chen, Xin Wang, Wei	China Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci. (Wuhan)	Zhang, Zhimei Huang, Shaowei Chen, Ying Mei, Shengwei	Tsinghua Univ. Tsinghua Univ. Tsinghua Univ. Tsinghua Univ.
▷ PSuA-112 <i>Performance Assessment of Non-Gaussian Random Distributed Control System</i>			
Zhang, Jinfang Wu, Di Huang, Junxiong Tian, Ruoxuan	North China Electric Power Univ. North China Electric Power Univ. North China Electric Power Univ. North China Electric Power Univ.	Wang, Pu Zeng, Wenhao Gao, Xue-Jin	Beijing Univ. of Tech., China Beijing Univ. of Tech. Beijing Univ. of Tech.
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Zhang, Hao Zhang, Tianliang Zhang, Weihai Su, Hang	Shandong University of Sci. & Tech. South China Univ. of Tech. Shandong Univ. of Sci. & Tech. Shandong Univ. of Sci. & Tech.	Liu, Duyu	Southwest Univ. for Nationalities of China
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Feng, Lingyu Zhang, Jian Mu, Xiaowu	Zhengzhou Univ. Zhengzhou Univ. Zhengzhou Univ.	Xia, Hao Jia, Peilin Xu, Qiancheng	Dalian Univ. of Tech. Dalian Univ. of Tech. Juelich Research Center
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Li, Ning	Qingdao Haier Dishwasher Co., LTD	Xi'an Jiaotong Univ. Xi'an Jiaotong Univ. Xi'an Jiaotong Univ.
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Leng, Peng Yu, Pei-Chang Gao, Ming Li, Jie Li, Yajian	National Univ. of Defense Tech. National Univ. of Defense Tech. CRRC TANGSHAN CO.,LTD National Univ. of Defense Tech. National Univ. of Defense Tech.	Lian, Yindong Xie, Wei
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Zhang, Zhe Wu, Jian He, Cheng	Nanchang Hangkong Univ. Nanchang Hangkong Univ. Nanchang Aviation Univ.	Sui, Zhen Duan, Luhui Hou, Tianchen Zhang, Tian Xing	Jilin Univ. Jilin Univ. Jilin Univ. Jilin Univ.
▷ PSuA-155 <i>A Heuristic Algorithm for Solving Resource Constrained Project Scheduling Problem with Transfer Time under Resource Bundle</i>			
Cai, Junqi Peng, Zhihong	Beijing Univ. of Tech. Beijing Inst. of Tech.	Ming, Fangzhu Gao, Feng Liu, Kun Nie, Zelin	Xi'an Jiaotong Univ. Xi'an Jiaotong Uni Xian Jiaotong Univ. Xi'an Jiaotong Univ.
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Li, Guangkuo Chen, Laijun Zheng, Tianwen Mei, Shengwei	Tsinghua Univ. Tsinghua Univ. Tsinghua Univ. Tsinghua Univ.	Yao, Lin Liu, Yabin Zhao, Houbao Ding, Haojie	Shanghai Polytechnic Univ. Shanghai Lixin Univ. of Accounting & Finance Shanghai Lixin Univ. of Accounting & Financ Shanghai Lixin Univ. of Accounting & Finance
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Luo, Tianjiao Zhang, Jianyu Wu, Yongbao Wang, Pengfei	Univ. of California, Berkeley Harbin Inst. of Tech., Weihai Harbin Inst. of Tech., Weihai Harbin Inst. of Tech., Weihai	Yan, Zheping Hao, Yongshuai Li, Juan	Harbin Engineering Univ. Harbin Engineering Univ. Harbin Engineering Univ.
▷ PSuA-158 <i>Implementation of A FPGA-ARM-based Canny Edge Detection System</i>			
Liu, Zhaoyang Jing, Fengshui Fan, Junfeng Wang, Zhe	Inst. of Automation, Chinese Acad. of Sci. Inst. of Automation, Chinese Acad. of Sci. Inst. of Automation, Chinese Acad. of Sci. Inst. of Automation, Chinese Acad. of Sci.	Luo, Fang Zhang, Zhiliang Wang, Xiaohong Chen, Zhenfeng	Qingyuan Polytechnic Qingyuan Polytechnic Qingyuan Polytechnic Guangdong Univ. of Tech.
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Chair: Hou, Zhongsheng Chair: Huang, Yi Chair: He, Yong Chair: Hou, Zengguang Chair: Jia, Yingmin	Beijing Jiaotong Univ. Chinese Acad. of Sci. China Univ. of GeoSci. Inst. of Automation Chinese Acad. of Sci. BeiHang Univ., China	Lin, Shengzuo Luo, Fang Zhang, Zhiliang Wang, Xiaohong Chen, Zhenfeng	Guangdong Polytechnic of Environmental Protection Engineering Guangdong Univ. of Tech.
▷ PSuB-01 <i>Differential Privacy of Online Distributed Optimization under Adversarial Nodes</i>			
Hou, Ming Li, Dequan Wu, Xiongjun Shen, Xiuyu	Anhui Univ. of Sci. & Tech. Anhui Univ. of Sci. & Tech. National Defense Key Laboratory of Sci. & Tech. on Electromagnetic Scattering, the 802 Inst. of Shanghai Acad. of Space Flight Tech. Anhui Univ. of Sci. & Tech.	Yuan, Yan Li, Huifang Wei, Wanwen Lin, Zhiwei	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.
▷ PSuB-02 <i>Algorithm of Task Scheduling and Path Planning for Multiple Mobile Robots in Warehousing Systems</i>			
Liu, Haiming	South China Univ. of Tech.	Xu, Qiucheng Tian, Jing Yan, Yongjie	NNCS The 28th Research Inst. of China Electronics Tech. Group Corporation State Key Laboratory of Air Traffic Management Sys. & Tech., Nanjing
▷ PSuB-03 <i>Decentralized Charging Coordination of Plug-in Electric Vehicles in Distribution Networks with Transformer Aging Considered</i>			
▷ PSuB-04 <i>Research on Optimization of Production Workshop Layout Based on Extension Particle Swarm Optimization</i>			
▷ PSuB-05 <i>Modeling and Scheduling of Tier-to-tier Shuttle-based Storage and Retrieval Systems</i>			
▷ PSuB-06 <i>Charging Scheduling of Enterprise Private Parking-lot with Renewable Power: A Simulation Method Based on Markov Decision Processes</i>			
▷ PSuB-07 <i>An Improved UKPK-PSO Algorithm Inspired from Block Chain Technology for Flexible Job Shop Scheduling Problem</i>			
▷ PSuB-08 <i>Multi-UUV Collaborative Search Planning Based on Predictive Control and Backtracking</i>			
▷ PSuB-09 <i>Elevator Scheduling Based on Virtual Energy Level Transition of Floors</i>			
▷ PSuB-10 <i>Heuristic Scheduling Algorithm for Cloud Workflows with Complex Structure and Deadline Constraints</i>			
▷ PSuB-11 <i>A Two-Phase Optimization Method of Generating Control Strategy for Air Traffic Flow</i>			
▷ PSuB-12 <i>Simulated Annealing Algorithm for the Quay Crane Scheduling Problem</i>			

Liu, Yan-Na	General Courses Department, Army Military Transportation Univ.	<i>Critic</i>	
Wang, Rui	General Courses Department, Army Military Transportation Univ.	Li, Qiang Li, Gang Wang, Xing Wei, Min	Xi'an Univ. of Tech. Xi'an Univ. of Tech. Xi'an Univ. of Tech. Xi'an Univ. of Tech.
Zhang, Xiao-Yu	College of Economics, Tianjin Normal Univ.		
Li, Chang-Guo	General Courses Department, Army Military Transportation Univ.		
Zhong, Min	Intelligent Manufacturing College, Tianjin Sino-German Univ. of Applied Sci.	▷ PSuB-23 <i>A Dual-user Teleoperation System with Symmetric Time-varying Delay</i> Ji, Yude Liu, Danyang Ma, Xitong	Hebei Univ. of Sci. & Tech. Hebei Univ. of Sci. & Tech. Hebei Univ. of Sci. & Tech.
Li, Yu-Hao	Fourth Team of Cadets, Army Military Transportation Univ.	▷ PSuB-24 <i>Improved Adaptive Control Strategy of Inertia for Virtual Synchronous Generator Based on Fuzzy Control</i>	Hebei Univ. of Sci. & Tech.
▷ PSuB-13	<i>An Improved Artificial Bee Colony Algorithm Based on Beetle Antennae Search</i>	Zheng, Jiaqi Wang, Anna Zhang, Tao	Northeastern Univ. School of Information Sci. & Engineering Shenyang Inst. of Automation Chinese Acad. of Sci.
Cheng, Long Yu, Muzhou Yang, Junfeng Wang, Yan	Northeastern Univ. at Qinhuangdao Northeastern Univ. at Qinhuangdao Northeastern Univ. at Qinhuangdao Northeastern Univ. at Qinhuangdao	Zhang, Hualiang Gu, Nanhui	Chinese Acad. of Sci. Northeastern Univ.
▷ PSuB-14	改进MOPSO在中央空调多目标优化中的应用 <i>Application of Improved MOPSO in Multi-objective Optimization of Central Air-conditioning</i>	▷ PSuB-25 <i>Adaptive Control of Nonlinear Networked Systems with Quantized Inputs and Packet Dropouts</i>	
Gao, Yu Wang, Xiangdong Li, Shuijiang	Shenyang Univ. of Tech. Shenyang Univ. of Tech. Shenyang Univ. of Tech.	Lai, Guanyu Zhang, Yun Liu, Zhi	Guangdong Univ. of Tech. (Higher Education Mega Center) Guangdong Univ. of Tech. Guangdong Univ. of Tech.
▷ PSuB-15	<i>Robust Attitude Tracking Control for Fixed-Wing UAVs</i>	▷ PSuB-26 <i>A Reinforcement Learning Based End-to-End Algorithm for Confrontation Problem</i>	
Wang, Mingdong Shi, Zongying Zhong, Yisheng	TsingHua Univ. Tsinghua Univ. Tsinghua Univ.	Wang, Siqiang Yao, Haodi Yao, Yu He, Fenghua	Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech.
▷ PSuB-16	<i>Generalized Internal Model Control of Single-phase PWM Rectifiers under Parametric Uncertainties</i>	▷ PSuB-27 <i>An Adaptive Sliding Mode Control for Markovian Jump Systems with Partially Unknown Transition Probabilities</i>	
Xiong, Kanglong Ma, Lei Qin, Na Peng, Lin Liu, Haoran Su, Bin	Southwest Jiaotong Univ. Southwest Jiaotong Univ. Southwest Jiaotong Univ. Southwest Jiaotong Univ. Southwest Jiaotong Univ. Southwest Jiaotong Univ.	Zhuang, Huixuan Sun, Qinglin Chen, Zengqiang	Nankai Univ. Nankai Univ. Nankai Univ.
▷ PSuB-17	<i>Robust Tracking Control of Uncertain Nonholonomic Wheeled Mobile Robot Incorporating the Actuator Dynamics</i>	▷ PSuB-28 <i>Numerical Design Method for Nonlinear Sliding Mode Control of Inverted Pendulum</i>	
Wang, Yu Wu, Yuxiang	South China Univ. of Tech. South China Univ. of Tech.	Cui, Jianfeng	North Univ. of China
▷ PSuB-18	<i>AILC for Non-uniform Trajectory Tracking of Uncertain Nonlinear Pure-feedback Systems with Initial State Error Based on FLS</i>	▷ PSuB-29 <i>A New Exponential Reaching Law of Sliding Mode Control for Vehicle-Mounted Rigid - Flexible Manipulator</i>	
Zhang, Chunli Qian, Fucai Xie, Guo	Xi'an Univ. of Tech. Xi'an Univ. of Tech. Xi'an Univ. of Tech.	Liu, Shuyang Liu, Jinlong Li, Yuanchun Langari, Reza	Jilin Univ. Changchun Univ. of Tech. Changchun Univ. of Tech. Texas A&M Univ.
▷ PSuB-19	<i>Sideslip Angle and Tire Cornering Stiffness Estimations for Four-In-Wheel-Motor-Driven Electric Vehicles</i>	▷ PSuB-30 <i>A Novel PSDE Algorithm for Multi-objective Optimization</i>	
Tian, Yu Lian, Yufeng Tian, Chongwen	School of Electrical & Electronic Engineering Changchun Univ. of Tech. China FAW Group CO., LTD New Energy Vehicle Branch	Xu, Meiling Dong, Hongxin Ji, Zaidi Wang, Yiwen	Northeastern Univ. Dalian Univ. of Tech. Dalian Univ. of Tech. Dalian Univ. of Tech.
Sun, Zhongbo Liu, Keping	Jilin Univ. Changchun Univ. of Tech.		
▷ PSuB-20	<i>Distributed Optimization for Continuous Time Multiple Agents Systems with Unknown Parameters</i>	▷ PSuB-31 <i>Path Planning for Omnidirectional Wheeled Mobile Robot by Improved Ant Colony Optimization</i>	
Hu, Zilun Yang, Jianying	Peking Univ. Peking Univ.	Ou, Jiaming Wang, Min	South China Univ. of Tech. South China Univ. of Tech.
▷ PSuB-21	<i>Parallel Architecture Based Iterative Segmentation Optimal Cyclic Block Kernel Learning Algorithm</i>	▷ PSuB-32 <i>Formalization of General Topology in Coq – A Formal Proof of Tychonoff's Theorem</i>	
Li, Lu Chen, Xin	China Univ. of GeoSci. (Wuhan)	Zao, Xiaoyan Sun, Tian Yu Fu, Yaoshun Yu, Wensheng	Yili Normal Univ. Beijing Univ. of Posts & Telecommunications Beijing Univ. of Posts & Telecommunications Beijing Univ. of Posts & Telecommunications
▷ PSuB-22	<i>Diffusion Welding Furnace Temperature Controller Based on Actor-</i>	▷ PSuB-33 <i>A Data-driven Approach to Solve A Production Constrained Build-order Optimization Problem</i>	

Wang, Pengpeng	Xiamen Univ.	▷ PSuB-45	<i>A Prediction Method for EV Charging Load Based on Fuzzy Inference Algorithm</i>
Zeng, Yifeng	Teesside Univ.		Wan, Youhong Nanjing Univ. of Posts & Telecommunications
Chen, Bilian	Xiamen Univ.		Cao, Weitao Nanjing Univ. of Posts & Telecommunications
Cao, Langcai	Xiamen Univ.		Li, Zeyun School of Automation
▷ PSuB-34			
<i>A Modified Whale Optimization Algorithm Based on Chaos Initialization and Regulation Operation</i>		▷ PSuB-46	<i>Combustion Furnace Control Based on Feedforward-Fuzzy Decoupling</i>
Jiang, Ruiye	Harbin Inst. of Tech.		He, Wangyong China Univ. of GeoSci.(Wuhan)
Chao, Tao	Harbin Inst. of Tech.		Wang, Yuanjiang China Univ. of GeoSci.(Wuhan)
Wang, Songyan	Harbin Inst. of Tech.		Liu, Sanqiu China Univ. of GeoSci.
Yang, Ming	Harbin Inst. of Tech.		Li, Jiankang China Univ. of GeoSci.
▷ PSuB-35			Zhang, Ruihuan China Univ. of GeoSci.(Wuhan)
<i>Deep Learning-based QoS Prediction for Manufacturing Cloud Service</i>		▷ PSuB-47	<i>On-line Monitoring of Batch Process Using Multi-phase Based Dynamic Model</i>
Li, Huifang	Beijing Inst. of Tech.		Gao, Xue-Jin Beijing Univ. of Tech.
Wei, Wanwen	Beijing Inst. of Tech.		Huang, Mengdan Beijing Univ. of Tech.
Fan, Rui	Beijing Inst. of Tech.		Wang, Pu Beijing Univ. of Tech., China
▷ PSuB-36			Liu, Xin Beijing Univ. of Tech.
<i>Fuzzy Adaptive Sliding Mode Control of Chain Servo System</i>			Qi, Yongsheng Inner Mongolia Univ. of Tech.
Han, Naiyu	Nanjing Univ. of Sci. & Tech.		Gao, Huihui Beijing Univ. of Tech.
Li, Zhigang	Nanjing Univ. of Sci. & Tech.		
Zou, Quan	Nanjing Univ. of Sci. & Tech.		
▷ PSuB-37		▷ PSuB-48	<i>The Application of DQN in Thermal Process Control</i>
<i>Neural Adaptive Synchronization Control of Chaotic FitzHugh-Nagumo Neurons in the External Electrical Stimulation</i>			Ao, Tao Southeast Univ.
Meng, Zihan	Tianjin University		Shen, Jiong Southeast Univ.
Xia, Zijie	Tianjin Univ.		Liu, Xichui Southeast Univ.
Yu, Haizuo	Tianjin Univ.		
Wang, Jiang	Tianjin Univ.		
Liu, Chen	Tianjin Univ.		
▷ PSuB-38		▷ PSuB-49	<i>Model Predictive Control for Integrated Operation of Coal-Fired Power Plant and Post-Combustion Carbon Capture</i>
<i>Stability Analysis of Polynomial Fuzzy Control Systems Based on Homogeneous Lyapunov Function</i>			Zhou, Chunlei Jiangsu Frontier Electric Tech. Co. Ltd, Nanjing, 211102, China
Zhang, Weiwei	North Minzu Univ.		Li, Dou Jiangsu Frontier Electric Tech. Co. Ltd, Nanjing, 211102, China
Zhang, Bai	Beifang Universities of Nationalities		Zhang, Youwei Jiangsu Frontier Electric Tech. Co. Ltd
Shi, Hongtao	Beifang Univ. of Nationalities		Liao, Peizhi Southeast Univ.
Pan, Juntao	North Minzu Univ.		Cao, Shuoshuo Southeast Univ.
▷ PSuB-39		▷ PSuB-50	<i>Single Neuron PID Controller Based on Quadratic Optimization and Its Application on PH Process Control</i>
<i>Robust Asynchronous H_∞ Control for Uncertain Switched Takagi-Sugeno Fuzzy Systems via Static Output Feedback</i>			Meng, Yu Inst. of Chemical Defense
Zheng, Qunxian	Univ. of Electronic Sci. & Tech. of China		
Xu, Shengyuan	Nanjing Univ. of Sci. & Tech.		
▷ PSuB-40		▷ PSuB-51	<i>Model Based Fractional Order PID Controller Design and Simulation of Pressure Swing Adsorption</i>
<i>Optimization guaranteed cost fuzzy tracking control of a quad-rotor with prescribed H^∞ performance index</i>			Peng, Hui Jiujiang Univ.
Sun, Miaoping	Central South Univ.		Wang, Ping School of Electronic Engineering, Jiujiang Univ.
Ding, Nan	College of Information Sci. & Engineering, Central South Univ.		Li, Weihua Jiujiang Univ.
▷ PSuB-41		▷ PSuB-52	<i>An Output Probabilistic Constrained Optimal Control Algorithm and Its Application to AGC System</i>
<i>Improved Delay-and-Its-derivative-Dependent Stability and Stabilization Conditions for T-S Fuzzy Systems with Time-Delay</i>			Shi, Zhijie Univ. of Sci. & Tech. Beijing
Gao, Zifan	Shanxi Univ.		Dong, Jie Univ. of Sci. & Tech. Beijing, China
Zhang, Dawei	Shanxi Univ.		Peng, Kaixiang Univ. of Sci. & Tech. Beijing
Yang, Jiaxiu	Shanxi Univ.		Sun, Ruiqi Univ. of Sci. & Tech. Beijing
▷ PSuB-42		▷ PSuB-53	<i>Wavelet Analysis Based Hidden Markov Model for Large Ship Trajectory Prediction</i>
<i>Electrospinning Processes Feedback Control by Tuning Pump Flow Rate</i>			Zhang, Xianyang Xi'an High Tech Inst.
Meng, Lingtong	Huazhong Univ. of Sci. & Tech.		Liu, Gang Rocket Force Univ. of Engineering
Sun, Hongwei	Huazhong Univ. of Sci. & Tech.		Hu, Chen Xi'an Inst. of High-Tech
Sun, Weigao	Huazhong Univ. of Sci. & Tech.		Ma, Xiaolong Xi'an High Tech Inst.
Zhang, Hai-Tao	Huazhong Univ. of Sci. & Tech.		
▷ PSuB-43		▷ PSuB-54	<i>Economic Model Predictive Control for Wind Turbine</i>
<i>On the Semi-incremental Clustering Algorithm Based on Kalman Filter and Bayes Approach</i>			Liu, Xiangjie North China Electric Power Univ., China
Zhou, Wei	Univ. of Sci. & Tech. Liaoning		Wu, Qian North China Electric Power Univ.
Zhang, Daqing	Univ. of Sci. & Tech. Liaoning		Kong, Xiaobing North China Electric Power Univ.
▷ PSuB-44		▷ PSuB-55	<i>Research on Algorithm for Model Predictive Control Based on Robust Optimizition</i>
<i>A New Output Feedback Controller Synthesis for T-S Fuzzy Affine Impulsive Systems</i>			Zhang, Xia Xi'an Univ. of Tech.
Ji, Wengiang	Harbin Inst. of Tech.		Liu, Ding Xi'an Univ. of Tech., China
Zhang, Heting	Harbin Inst. of Tech.		
Qiu, Jianbin	Harbin Inst. of Tech.		

Yu, Fei	Xi'an Univ. of Tech.	
▷ PSuB-56		
<i>RBF Neural Network Based Model Predictive Control Algorithm and Its Application to A CSTR Process</i>		
Li, Shi	Univ. of Jinan	
Jiang, Ping	Univ. of Jinan	
Han, Ke-Zhen	Northeastern Univ.	
▷ PSuB-57		
<i>Multi-objective Optimal Control of Micro-grid Based on Economic Model Predictive Control</i>		
Ren, Shijia	North China Electric Power Univ.	
Wang, Jiajun	North China Electric Power Univ.	
Ma, Miaomiao	North China Electric Power Univ.	
▷ PSuB-58		
<i>Multi-sensor Fusion Height Prediction Algorithm Based on Kalman Filtering</i>		
Yu, Xiang	Beijing Inst. of Tech.	
Xu, Yong	Beijing Inst. of Tech.	
Liang, Haobo	School of Aerospace Engineering, Beijing Inst. of Tech.	
Zhong, Yuan	Beijing Inst. of Tech.	
Wen, Maolin	Beijing Inst. of Technology	
▷ PSuB-59		
<i>Intrahour Cloud Tracking Based on Optical Flow</i>		
Zhang, Songjie	Zhejiang Univ.	
Dong, Zhekang	Zhejiang Univ.	
Yang, Xinyi	Zhejiang Univ.	
Chai, Songjian	The Hong Kong Polytechnic Univ.	
Xu, Zhao	Hong Kong Polytechnic Univ.	
Qi, Donglian	Zhejiang Univ.	
▷ PSuB-60		
<i>High-precision Steady Speed Flywheel System Based on Sine Wave Drive</i>		
Ma, Enyu	Harbin Inst. of Tech.	
Zhao, Hui	Harbin Inst. of Tech.	
Chen, Shuo	Harbin Inst. of Tech.	
Wang, Shuai	Beijing Electromechanical Engineering Inst.	
Huo, Xin	Harbin Inst. of Tech.	
Yao, Yu	Harbin Inst. of Tech.	
▷ PSuB-61		
<i>Variable Coefficient Active Disturbance Rejection Control for Crane System</i>		
Liu, Xinning	Beijing Inst. of Tech.	
Cai, Tao	Beijing Inst. of Tech.	
▷ PSuB-62		
<i>Generalized Predictive Control for Motion Control of Unmanned Surface Vehicle</i>		
Tao, Geng	Henan Univ.	
▷ PSuB-63		
<i>基于GUI的ATP系统动态仿真平台设计</i>		
<i>Design of Dynamic Simulation Platform for ATP System</i>		
Zou, Zisheng	Univ. of Sci. & Tech. of China	
Cong, Shuang	Univ. of Sci. & Tech. of China	
Shang, Weiwei	Univ. of Sci. & Tech. of China	
Ding, Chen	Beijing Inst. of Satellite Information Engineering	
▷ PSuB-64		
<i>Super-Twisting Sliding Mode Control Design for Electric Dynamic Load Simulator</i>		
Dai, Mingguang	Northwestern Polytechnical Univ.	
Qi, Rong	1. School of Automation, Northwestern Polytechnical University	
Xi, Cheng	Northwestern Polytechnical Univ.	
▷ PSuB-65		
<i>The Application of Feedforward PID Control Based on FPGA in Universal Testing Machine</i>		
Miao, Zhonghua	Shanghai Univ.	
Fan, Yang	Shanghai Univ.	
Li, Baoming	Chinese Acad. of Agriculture Mechanization Sci.	
Kang, Gu	Shanghai Univ.	
He, Chuangxin	Shanghai Univ.	
▷ PSuB-66		
<i>High-Precision Tracking of Cubic Stewart Platform Using Active Disturbance Rejection Control</i>		
Min, Da	Southwest Jiaotong Univ.	
Huang, Deqing	Southwest Jiaotong Univ.	
Su, Hu	Southwest Jiaotong Univ.	
▷ PSuB-67		
<i>A Real-time Virtual Manipulator Simulation Platform Based on FPGA</i>		
Hu, Jinling	Tianjin Univ.	
Deng, Bin	Tianjin Univ.	
Yang, Shuangming	Tianjin Univ.	
Wei, Xile	Tianjin Univ.	
Wang, Jiang	Tianjin Univ.	
▷ PSuB-68		
<i>Decentralised Binocular Visual Trajectory Tracking Control for Cooperative Dual-Arm System</i>		
Wang, Yong	Guangdong Univ. of Tech.	
Lai, Guanyu	Guangdong Univ. of Tech. (Higher Education Mega Center)	
▷ PSuB-69		
<i>Sensorless Speed Control of High-Speed Permanent Magnet Synchronous Motor Based on Model Reference Adaptive System</i>		
Tian, Limei	Beijing Institute of Control Engineer	
He, Yanzhao	Beijing Inst. of Control Engineering	
▷ PSuB-70		
<i>High Precision Position Control of Telescope Servo Systems Based on Active Disturbance Rejection Controller</i>		
Li, Xin	Inst. of Optics & Electronics, Univ. of Chinese Acad. of Sci.	
Zhou, Wenlin	Chinese Acad. of Sci.	
Luo, Jun	Chinese Acad. of Sci.	
Qian, Junzhang	Chinese Acad. of Sci.	
Ma, Wenli	Chinese Acad. of Sci.	
▷ PSuB-71		
<i>A Sliding Mode Tracking Control for Under-actuated Surface Vessel Based on Pre-set Performance</i>		
Fu, Mingyu	Harbin Engineering Univ.	
Yu, Yang	Harbin Engineering Univ.	
Xu, Yuje	Harbin Engineering Univ.	
▷ PSuB-72		
<i>Gyro Stabilized Pod Disturbance Suppression Method Based on Fractional Order Disturbance Observer</i>		
Liu, Na	Changchun Univ. of Sci. & Tech.	
Wang, Chunyang	Changchun Univ. of Sci. & Tech.	
Sun, Jing	Changchun Univ. of Sci. & Tech.	
▷ PSuB-73		
<i>A No-disturbance Startup Scheme for PMSM Speed Loop with Auto-tuned Current Loop</i>		
Cao, Yihui	Beijing Inst. of Tech.	
Wang, Junzheng	Beijing Inst. of Tech.	
Shen, Wei	Beijing Inst. of Tech.	
▷ PSuB-74		
<i>Backstepping Sliding Mode Control for Robot Manipulator via Nonlinear Disturbance Observer</i>		
Huang, Yiqing	Southeast Univ.	
Cheng, Lu	AHPU	
Li, Zhiyun	AHPU	
Gao, Wengen	AnHui Polytechnic Univ.	
Lu, Huacai	Anhui Polytechnic Univ.	
Wei, Lisheng	Anhui Univ. of Tech. & Sci.	
▷ PSuB-75		
<i>Precision Point-to-point Positioning Control of A Novel Linear Motor Based on Fractional-order Modified Active Disturbance Rejection Controller</i>		
Shi, Xinxin	Nanjing Inst. of Tech.	
Huang, Jiabei	Nanjing Inst. of Tech.	
Gao, Fangzheng	Nanjing Inst. of Tech.	
▷ PSuB-76		
<i>Structure/controller Co-design of Multi-motor Driving System with Fixed-time Dynamic Surface Backstepping Control</i>		
Zeng, Tianyi	Beijing Inst. of Tech.	
Ren, Xuemei	Beijing Inst. of Tech.	

Lv, Yongfeng	Beijing Inst. of Tech.	<i>Multiple Kernel Learning</i>	
▷ PSuB-77		Ding, Shuai Zhang, Chengmao Sun, Xuemei	Linyi Univ. Linyi Univ. Linyi Univ.
<i>Gaussian Recursive Filtering Algorithm for Multi-rate Sensor System with Delayed and Infrequent Measurements</i>			
Tang, Kai	Sys. Engineering Research Inst.		
Yuan, Xingjun	Sys. Engineering Research Inst.		
Zhao, Xin	Sys. Engineering Research Inst.,CSSC		
Zhao, Kai	Harbin Inst. of Tech.		
Song, Shenmin	Harbin Inst. of Tech.		
▷ PSuB-78			
<i>Robust Weighted Measurement Fusion Kalman Predictors with Uncertain Noise Variances</i>			
Qi, Wenjuan	Heilongjiang Univ.		
▷ PSuB-79			
<i>RIC Bounds for Recovery of Sparse Signals by l_p ($0 < p \leq 1$) Minimization</i>			
Wan, Anhua	Sun Yat-Sen Univ.		
▷ PSuB-80			
<i>Restoration of Horizontal Motion Blurred Images Based on Wiener Filtering</i>			
Qian, Ying	North Minzu Univ.		
▷ PSuB-81			
<i>A New EEG Recording and Electrical Stimulation Medical Device with Independent Feedback Control Function</i>			
Du, Yuxiao	Guangdong Univ. of Tech.		
Sun, Bo	Guangdong Univ. of Tech.		
Zhang, Chunling	Guangdong Univ. of Tech.		
Chen, Feng	Guangdong Univ. of Tech.		
▷ PSuB-82			
<i>On Ground Penetrating Radar Imaging Method Based on Compressed Sensing in Multi-target Environment</i>			
Wang, Guangjun	China Univ. of GeoSci.		
Ma, Chengyong	China Univ. of GeoSci. (Wuhan)		
Jiang, Jianjin	China Univ. of GeoSci. (Wuhan)		
▷ PSuB-83			
<i>Image Denoising Algorithm Based on Incoherent Dictionary Learning</i>			
Jianjun, Li	Guangdong Univ. of Foreign Studies South China Business College		
Wang, Junhua	Guangdong Univ. of Foreign Studies South China Business College		
▷ PSuB-84			
<i>A Novel Precise Decomposition Method for Infrared and Visible Image Fusion</i>			
Hongyan, Wei	Chongqing Univ. of Posts & Telecommunications		
Zhu, Zhiqin	Chongqing Univ. of Posts & Telecommunications		
Chang, Liang	Automated Inst.		
Zheng, Mingyao	Chongqing Univ. of Posts & Telecommunications		
Chen, Sixin	Chongqing Univ. of Posts & Telecommunications		
Li, Peng Hua	Chong Qing Univ. of Posts & Telecommunications		
Qi, Guanqiu	Mansfield Univ. of Pennsylvania		
Li, Yuanyuan	Chongqing Univ. of Posts & Telecommunications		
▷ PSuB-85			
<i>A Weight-Based Multi-Innovation Intelligent Tracking Algorithm with Maneuver Detection</i>			
Xu, Yang	Airforce Engeneeing Univ.		
Fang, Yang Wang	Airforce Engeneeing Univ.		
Wu, Youli	Air Force Engineering Univ. Engineering College		
Liu, Tongxin	Airforce Engeneeing Univ.		
▷ PSuB-86			
<i>Time-Domain Interpolation Correction Method for Wide-Range Frequency Offset Power Grid</i>			
Shao, Yong	Shanghai Univ.		
Zhu, Guanghui	Shanghai Univ.		
Zan, Peng	Shanghai Univ.		
▷ PSuB-87			
<i>Optimal and Suboptimal Importance Density Functions for Rao-Blackwellized Particle Filter</i>			
Chen, Yunqi	Harbin Inst. of Tech.		
Yan, Zhibin	Harbin Inst. of Tech.		
▷ PSuB-88			
<i>Multi-feature Fusion Method for Hand Motion Recognition Based on</i>			
Ding, Shuai			
Zhang, Chengmao			
Sun, Xuemei			
▷ PSuB-89			
<i>Image Encryption Algorithm Based on Hyper-chaotic Lorenz Map and Compressed Sensing Theory</i>			
Lv, Weijie			Tianjin Univ.
Bai, Ruifeng			Tianjin Univ.
Sun, Xueqiang			Tianjin Univ.
▷ PSuB-90			
<i>Design of Surface Magneto-Optical Kerr Effect Automatic Measurement System Based on LabVIEW</i>			
Zhu, Laizhe			China Univ. of GeoSci., Wuhan
Dong, Kaifeng			China Univ. of GeoSci.
Jin, Fang			The Univ. of GeoSci.
Song, Junlei			China Univ. of GeoSci.
Mo, Wenqin			China Univ. of GeoSci.
▷ PSuB-91			
<i>A Kernel Estimation for Blurry Image Using Maximum A Posteriori Framework with Elastic-Net Prior</i>			
Yu, Xiaoyuan			South China Univ. of Tech.
Zhou, Yan			South China Univ. of Tech.
Chen, Dingquan			South China Univ. of Tech.
Xie, Wei			South China Univ. of Tech.
▷ PSuB-92			
<i>Adaptive Rank Estimation Based Tensor Factorization Algorithm for Low-Rank Tensor Completion</i>			
Liu, Han			Xi'an Jiaotong Univ.
Liu, Jing			Xi'an Jiao Tong Univ.
Su, Liyu			Xi'an Jiaotong Univ.
▷ PSuB-93			
<i>On the Potential of Geomagnetism-aided Vehicle In-out Detection Using BLE RSS</i>			
Ren, Qingyu			Shanghai Jiao Tong.Univ.;Northwest Inst. of Nuclear Tech.
Cao, Yiwen			Shanghai Jiao Tong Univ.
Zhao, Zhonghua			Shanghai Jiao Tong Univ.
Mao, Xuchu			Shanghai Jiao Tong Univ.
▷ PSuB-94			
<i>Sequential Inverse Covariance Intersection Fusion Estimation for Multi-sensor Systems with Multiple Delays and Correlated Noises</i>			
Shang, Tianmeng			Heilongjiang Univ.
Liu, Qi			Heilongjiang Univ.
Yu, Kai			Heilongjiang Universtiy
Chen, Lizi			Heilongjiang Universtiy
Gao, Yuan			Heilongjiang Univ.
Huo, Yinlong			Harbin Environmental Monitoring Center Station
Ran, Chenjian			Heilongjiang Univ.
▷ PSuB-95			
<i>Quantification of Multiple Gases Mixture Based on Fuzzy Partition and Model Ensemble</i>			
Wang, Qingfeng			Jilin Univ.
Min, Jiaxing			Jilin Univ.
Mao, Cai			Jilin Univ.
▷ PSuB-96			
<i>Time Series Prediction of E-nose Sensor Drift Based on Deep Recurrent Neural Network</i>			
Wang, Qingfeng			Jilin Univ.
Qi, Haiying			Changchun Inst. of Construction
Fan, Liu			Jilin Univ.
▷ PSuB-97			
<i>Delay Compensation for Interference Attacks in IWSN-based Wireless Control System</i>			
Liu, Yuhui			JiangNan Univ.
Sun, Zi Wen			Jiangnan Univ.
▷ PSuB-98			
<i>A Decision-making Method for Defibrillation Based on SVM and Opt-AMSA</i>			
Xie, Zhuoyan			GuangDong Univ. of Tech.
Yang, Qiyu			Guangdong Univ. of Tech.

Yang, Yi Li, Weijun Yang, Zhengfei	Guangdong Univ. of Tech. Guangdong Univ. of Tech. Sun Yat-sen Memorial Hospital,SUN YAT-SEN Univ.	Yu, Yingrong Peng, Siting Li, Qingdong Dong, Xiwang Ren, Zhang	Beijing Univ. of Aeronautics & Astronautics Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ.
▷ PSuB-99		▷ PSuB-109	
<i>On P300 Signal Recognition Algorithms Based on Convolutional Neural Network</i>		<i>Extraction of Color Characteristics of Pesticide Detection Card Based on Machine Vision</i>	
Meng, Xiao Fei Ma, Yuliang Cao, Guolu Zhang, Qizhong She, Qingshan	Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. Hangzhou Dianzi Univ.	Jin, Fang Tu, Xin Dong, Kaifeng Song, Junlei Mo, Wenqin	The Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci.
▷ PSuB-100		▷ PSuB-110	
<i>Improved Framework of Gaussian Filter for Nonlinear System with Correlated Noises</i>		<i>Based on Double-layer Stimulation SSVEP Character Input System</i>	
Wu, Xiao-Hang Ma, Kemaio	Harbin Inst. of Tech. Harbin Inst. of Tech.	Zhao, Li Zhao, Aidong Bian, Yan	Tianjin Univ. of Tech. & Education Tianjin Univ. of Tech. & Education Tianjin Univ. of Tech. & Education
▷ PSuB-101		▷ PSuB-111	
<i>Sequential Inverse Covariance Intersection Fusion Kalman Filter for Multi-sensor Systems with Packet Dropouts</i>		<i>Optimal Sequential Fusion Estimation with Communication Delays and Correlated Noises</i>	
Liu, Qi Shang, Tianmeng Chen, Lizi Yu, Kai Gao, Yuan Huo, Yinlong Dou, Yinfeng	Heilongjiang Univ. Heilongjiang Univ. Heilongjiang Universtiay Heilongjiang Universtiay Heilongjiang Univ. Harbin Environmental Monitoring Center Station Heilongjiang Univ.	Zhang, Shankai Zhu, Cui Dai, Juan Li, Li Xie, Yinggang	Beijing Information Sci. & Tech. Univ. Beijing Information Sci. & Tech. Univ. Beijing Information Sci. & Technological Univ. Yanshan Univ., Beijing Information Sci. & Tech. Univ.
▷ PSuB-102		▷ PSuB-112	
<i>Research on Speech Emotion Recognition Technology Based on Deep and Shallow Neural Network</i>		<i>Research on Speech Recognition Acceleration Technology Based on Embedded Platform</i>	
Wang, Jian Han, Zhi Yan	Bohai Univ. Bohai Univ.	Wu, Da Ding, Ling Deng, Shuwen Lu, Shejie	Hubei Univ. of Sci. & Tech. Hubei Univ. of Sci. & Tech. Hubei Univ. of Sci. & Tech. Hubei Univ. of Sci. & Tech.
▷ PSuB-103		▷ PSuB-113	
<i>Innovative LQR Control Method for Vessel Rudder Control</i>		<i>An Improved Demodulation Algorithm for Water Acoustic Commu- tiation Based on IMF Energy Spectrum and Wavelet Analysis</i>	
Li, Bo Tian, Haonan Jing, Qingyang Wang, Yajun Li, Xiaohui	Liaoning Univ. of Tech. Liaoning Univ. of Tech. Liaoning Univ. of Tech. Northeastern Univ. Liaoning Univ. of Tech.	Bao, Yefan Sun, Zhifeng	Zhejiang Univ. Zhejiang Univ.
▷ PSuB-104		▷ PSuB-114	
<i>A Machine Learning Based Reduced-Reference Image Quality Assessment Method for Single-Image Super-Resolution</i>		<i>Estimation of T2 Spectrum in NMR Based on OMP Algorithm</i>	
Yang, Liangkang Sheng, Yuxia Chai, Li	Wuhan Univ. of Sci. & Tech. Wuhan Univ. of Sci. & Tech. Wuhan Univ. of Sci. & Tech.	Zhang, Menglei Duan, Shihui Ling, Qiang	Univ. of Sci. & Tech. of China China Acad. of Information & Communications Tech. Univ. of Sci. & Tech. of China
▷ PSuB-105		▷ PSuB-115	
<i>基于HMM的自适应姿态估计方法</i>		<i>Wind Direction Division of Wind Farm Based on Spontaneous Aggregation Characteristics of Wind-direction Data</i>	
<i>HMM Based Adaptive Kalman Filter for Orientation Estimation</i>		Xi, Yunhua Pan, Chenyang Hu, Yang	North China Electric Power Univ. North China Electric Power Univ. (Beijing) North China Electric Power Univ.
Zhang, Jun'ao Huang, Dajian Zhang, Wenan Liu, Steven Liu, Andong	Zhejiang Univ. of Tech. Zhejiang Univ. of Tech. Zhejiang Univ. of Tech. Inst. of Control Sys. Zhejiang Univ. of Tech.		
▷ PSuB-106		▷ PSuB-116	
<i>An Improved Adaptive Kalman Filter for Altitude Estimation of Quadro-tors</i>		<i>Parametric Bispectral Estimation of EEG Signals in Disorders of Con-sciousness</i>	
Zhao, Qi He, Fenghua Hao, Ning Xing, Rui	Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech.	Wei, Xile Wang, Wenli Cai, Lihui Lu, Meili Yi, Guo-Sheng Wang, Jiang	Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ. of Tech. & Education School of Electrical & Automation Eng., Tianjin Univ. Tianjin Univ.
▷ PSuB-107		▷ PSuB-117	
<i>A Method for Detecting Suspicious Border Regions of Extracted CT Lung Region</i>		<i>Deep Transcranial Magnetic Stimulation/Improved Coil Design and As-sessment of the Induced Fields Using Realistic Head Model</i>	
Feng, Changli Li, Xin Yang, Deyun Wei, Haiyan Ma, Zhaogui	Taishan Univ. Taishan Univ. Taishan Univ. Taishan Univ. Taishan Univ.	Wei, Xile Shi, Dongxu Lu, Meili Yi, Guo-Sheng Wang, Jiang	Tianjin Univ. Tianjin Univ. Tianjin Univ. of Tech. & Education School of Electrical & Automation Eng., Tianjin Univ. Tianjin Univ.
▷ PSuB-108		▷ PSuB-118	
<i>Distributed State Estimation for Heterogeneous Mobile Sensor Net-works with Sensor Faults</i>		<i>An Improved Neighborhood-Based Recommendation Algorithm Opti-</i>	

<i>mization with Clustering Analysis and Latent Factor Model</i>	Dong, Ping Cheng, Jian-Hua Liu, Liqiang Zhang, Wei	Harbin Engineering Univ. Harbin Engineering Univ. Harbin Engineering Univ. Harbin Engineering Univ.
Yao, Zhenyu Wang, Jinkuan Han, Yinghua	Northeastern Univ. Northeastern Univ. Northeastern Univ. at Qinhuangdao	
▷ PSuB-119		
<i>A Novel Spatial-temporal Clustering-based Forecasting Method for Blast Furnace Gas Holder Level in Steel Industry</i>	Hou, Juanrou Wang, Zhanqing Zhang, Yanshun	Beijing Inst. of Tech. Beijing Inst. of Tech. Beihang Univ.
Zhang, Tai Lv, Zheng Zhao, Jun Wang, Wei	Dalian Univ. of Tech. Dalian Univ. of Tech. Dalian Univ. of Tech. Dalian Univ. of Tech.	
▷ PSuB-120		
<i>An Attribute Associated Isolation Forest Algorithm for Detecting Anomalous Electro-data</i>	Zhang, Gongping Ma, Kemao	Luoyang Optoelectro Tech. Development Center Harbin Inst. of Tech.
Luo, Simin Luan, Le Cui, Yiping Chai, Xueyan Wang, Zhuzhu Kong, Yiming	Guangzhou Power Supply Bureau Co., Ltd Guangzhou Power Supply Bureau Co.,Ltd Guangzhou Power Supply Bureau Co.,Ltd Xi'an Jiaotong Univ. Xi'an Jiaotong Univ. Xi'an Jiaotong Univ.	
▷ PSuB-121		
<i>Portrait Analysis of Power Transmission Line for Smart Grid Based on External Data Association Fusion</i>	Jiang, Ping Li, Haixia Lu, Chuiwei Cheng, Hua	Hubei PolyTechnic Univ. Hubei Polytechnic Univ. Hubei Polytechnic Univ. 93886 Forces
Zhang, Qipeng	State Grid Fujian Electric Power Company	
▷ PSuB-122		
<i>Trajectory Optimization for Long-Range Air-Defense Missile with A Constraint on Capability of Error Correction</i>	Zhao, Hui Su, Zhong Liu, Fuchao Li, Chao Li, Qing	Beijing Inst. of Tech. Beijing Information Sci. & Tech. Univ. Beijing Inst. of Tech. Beijing Inst. of Tech., Beijing Beijing Information Sci. & Tech. Univ.
Lv, Shoukun Cai, Mingchun Zhou, Di Wang, Zicai	China Aerospace Sci. & Industry Corp China Aerospace Sci. & Industry Corp Harbin Inst. of Tech. Control & Simulation Center, Harbin Inst. of Tech.	
▷ PSuB-123		
<i>Finite-time Sliding Mode Tracking Control for Guided Projectile</i>	Li, Ze Hao Liao, Shouyi	High-tech Inst. of Xi'an High-Tech Inst. of Xi'an
Zhao, Xin Yi, Ke Tan, Zhaoming Wu, Guanqun Li, Yong Song, Shenmin	Sys. Engineering Research Inst.,CSSC Sys. Engineering Research Inst. Sys. Engineering Research Inst.,CSSC Harbin Inst. of Tech. China Acad. of Space Tech. Harbin Inst. of Tech.	
▷ PSuB-124		
<i>SDRE Optimal Sliding Mode Guidance Law Design with Attack Angle Constraint</i>	Gu, Xiaojie Zhang, Fengdi	Beijing Inst. of Tech. National Key Laboratory of Sci. & Tech. on Aerospace Intelligence Control Beijing
Li, Yuansheng Zhao, Xin She, Sihong Ma, Mengchen Song, Shenmin	Sys. Engineering Research Inst.,CSSC, Sys. Engineering Research Inst.,CSSC Sys. Engineering Research Inst., CSSC Harbin Inst. of Tech. Harbin Inst. of Tech.	
▷ PSuB-125		
<i>Adaptive Terminal Sliding Mode Cooperative Control for Multiple Missiles with Input Saturation</i>	Xu, Jian Yuan, Qing Ma, Hongwei Liu, Xiangdong Li, Zhen	Beijing Inst. of Tech. Automation Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.
Sun, Jingguang Wang, Shuo Guo, Yong Li, Peng	Harbin Inst. of Tech. Harbin Inst. of Tech. Northwestern Polytechnical Univ. Xiangtan Univ.	
▷ PSuB-126		
<i>A Robust Integrated Guidance and Control Approach for the Missile with Swing Nozzle</i>	Li, Yue Han, Wei	Aviation & Fundamental College No.1Department of Naval Aeronautical & Astronautical Univ. in Yantai of Shandong, China
Liu, Xiaodong Zhang, Yu Zhang, Huiping Gao, Bo	Beijing Aerospace Automatic Control Inst. Beijing Aerospace Automatic Control Inst. Beijing Aerospace Automatic Control Inst. Beijing Aerospace Automatic Control Inst.	
▷ PSuB-127		
<i>A MKF Based SINS/DVL/USBL Integrated Navigation Algorithm for Unmanned Underwater Vehicles in Polar Regions</i>	Zhang, Yong Mu, Wanhui	Aviation Foundation College Jiuquan Satellite Launch Center
Zhao, Lin Kang, Yingyao Cheng, Jian-Hua Fan, Ruiheng	Harbin Engineering Univ. Harbin Engineering Univ. Harbin Engineering Univ. Harbin Engineering Univ.	
▷ PSuB-128		
<i>Application of Improved Wavelet De-noising Method in MEMS-IMU Signals</i>	▷ PSuB-129	
Qu, Yaohong Sun, Ying	<i>Inertial Monocular Visual Odometry Based on RUPF Algorithm</i> Hou, Juanrou Wang, Zhanqing Zhang, Yanshun	Beijing Inst. of Tech. Beijing Inst. of Tech. Beihang Univ.
	▷ PSuB-130	
	<i>Non-smooth Guidance Law with Terminal Angular Constraints for Missiles Against Surface Targets</i> Zhang, Gongping Ma, Kemao	Luoyang Optoelectro Tech. Development Center Harbin Inst. of Tech.
	▷ PSuB-131	
	<i>Meshing Scheme Research of Our National Mid-low Latitude Region</i> Jiang, Ping Li, Haixia Lu, Chuiwei Cheng, Hua	Hubei PolyTechnic Univ. Hubei Polytechnic Univ. Hubei Polytechnic Univ. 93886 Forces
	▷ PSuB-132	
	<i>High Order Uncompressed Coning Algorithm in High Dynamic Environments</i> Zhao, Hui Su, Zhong Liu, Fuchao Li, Chao Li, Qing	Beijing Inst. of Tech. Beijing Information Sci. & Tech. Univ. Beijing Inst. of Tech. Beijing Inst. of Tech., Beijing Beijing Information Sci. & Tech. Univ.
	▷ PSuB-133	
	<i>Research on Non-uniformity Correction Method of Resistance Array Based on Flood Technology</i> Li, Ze Hao Liao, Shouyi	High-tech Inst. of Xi'an High-Tech Inst. of Xi'an
	▷ PSuB-134	
	<i>Graph Optimization Based Long-distance GPS/IMU Integrated Navigation</i> Gu, Xiaojie Zhang, Fengdi	Beijing Inst. of Tech. National Key Laboratory of Sci. & Tech. on Aerospace Intelligence Control Beijing
	Xu, Jian Yuan, Qing Ma, Hongwei Liu, Xiangdong Li, Zhen	
	▷ PSuB-135	
	<i>Trajectory Planning Based on Spatial-Temporal Constraints for MAV/UAV Cooperative System</i> Li, Yue Han, Wei	Aviation & Fundamental College No.1Department of Naval Aeronautical & Astronautical Univ. in Yantai of Shandong, China
	Zhang, Yong Mu, Wanhui	Aviation Foundation College Jiuquan Satellite Launch Center
	▷ PSuB-136	
	<i>A Novel Calibration Algorithm for RIMU Based on Derivative UKF</i> Cheng, Jian-Hua Liu, Ping Kang, Yingyao	Harbin Engineering Univ. Harbin Engineering Univ. Harbin Engineering Univ.
	▷ PSuB-137	
	<i>Improved Maximum Likelihood Filter Based on UD Decomposition Algorithm and Its Application in Transfer Alignment</i> Zhang, Wei Peng, Guojin Yuan, Bingnan Wang, Peng Hu, Zhaohui Yang, Zhe	Chinese Flight Test Establishment Chinese Flight Test Establishment
	▷ PSuB-138	
	<i>Multi-UAV Cooperative Search Method for A Moving Target on the Ground or Sea</i> Qu, Yaohong Sun, Ying	Northwestern Polytechnical Univ. Northwestern Polytechnical Univ.

Wang, Kai Zhang, Feng	Northwestern Polytechnical Univ. Northwestern Polytechnical Univ.	Wu, Jingyuan	Nanjing Univ. of Sci. & Tech. Northern Research Inst.
▷ PSuB-139 <i>A Field-of-view Constrained Switched-Phase Two-Stage Adaptive Integrated Guidance Law</i>		Guo, Jiawei Li, Haiyu Kang, Xiao	Nanjing Univ. of Sci. & Tech. Guangzhou Metro Group Co China North Vehicle Research Inst.
Li, Rui Zhao, Yangyang Ma, Qinghua	Tsinghua Univ. China North Industries 203 Inst. No.203 Research Inst. of China Ordnance Industries	▷ PSuB-149 <i>Accurate Recovery Trajectory Planning and Control of the First Sub-stage of Launch Vehicle</i>	
▷ PSuB-140 <i>Visual SLAM with RGB-D Cameras</i>		Chen, Xiaoran Xing, Xiaojun Gui, Haoran Xun, Yilin Li, Fenghao	Northwestern Polytechnical Univ. Northwestern Polytechnical Univ. Northwestern Polytechnical Univ. Northwestern Polytechnical Univ. Northwestern Polytechnical Univ.
Jin, Qiongyao Liu, Yungang Man, Yongchao Li, Fengzhong	Shandong Univ. Shandong Univ. Shandong Univ. Shandong Univ.	▷ PSuB-150 <i>Adaptive Weapon-Target Assignment for Multi-target Interception</i>	
Xu, Chao Huang, Xiangyu Li, Maodeng Wang, Dayi	BICE Beijing Inst. of Control Engineering Beijing Inst. of Control Engineering China Acad. of Space Tech.	Chen, Ziyuan Liang, Zixuan Dong, Xiwang Li, Qingdong Ren, Zhang	Beihang Univ. Beijing Inst. of Tech. Beihang Univ. Beihang Univ. Beihang Univ.
▷ PSuB-141 <i>Autonomous Navigation Using Natural Landmark Measurements for Earth Orbit Satellites</i>		▷ PSuB-151 <i>Variable Leg Stiffness Walking Control for the Biped Robot with Torso</i>	
Li, Zeren Ye, Hanghang Cui, Hao Guo, Zhengyu Cai, Yunze	Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Aviation Industry Corporation of China,Ltd Aviation Industry Corporation of China,Ltd Shanghai Jiao Tong Univ.	Wang, Shan Zhou, Yali Zhang, Qizhi	Beijing Information Sci. & Tech. Univ. Beijing Information Sci. & Tech. Univ. Beijing Information Sci. & Tech. Univ.
▷ PSuB-142 <i>Sliding Mode Control-Based Guidance Law with Damping Term and Angle Constraint</i>		▷ PSuB-152 <i>A Fast Covariance Intersection Tracking Algorithm Based on CDKF</i>	
Zheng, Shuo Wu, Huai-Ning Liu, Zhou-Yang	Beijing Univ. of Aeronautics & Astronautics Beijing Univ. of Aeronautics & Astronautics Beihang Univ.	Zhang, Hang Song, Chuang Hao, Mingrui Chen, Lin Xiu	Northwestern Polytechnical Univ. Beijing Electro-mechanical Engineering Inst. Harbin Inst. of Tech. Beijing Inst. of Mechanical & Electrical Engineering
▷ PSuB-143 <i>Image-Based Visual Servoing of Quadrotor Using Homography Reconstruction</i>		▷ PSuB-153 <i>A Cooperative Detection Method for Tracking A Non-cooperative Space Target</i>	
Zheng, Shuo Wu, Huai-Ning Liu, Zhou-Yang	Beijing Univ. of Aeronautics & Astronautics Beijing Univ. of Aeronautics & Astronautics Beihang Univ.	Zheng, Tianyu Yao, Yu He, Fenghua Zhang, Xinran	Harbin Institute of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech.
▷ PSuB-144 <i>An Improved Motion Capture System for Multiple Wheeled Mobile Robots Based on KCF and GMM</i>		▷ PSuB-154 <i>Design of Winding Tension Monitoring System</i>	
Zhao, Bingqian Liang, Yuan Dong, Xiwang Li, Qingdong Ren, Zhang	Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ.	He, Fang Wang, Shoubin Wang, Qiang	Univ. of Jinan Univ. of Jinan Univ. of Jinan
▷ PSuB-145 <i>Non-cooperative Target Pose Estimate of Spacecraft Based on Vectors</i>		▷ PSuB-155 <i>Event-Triggered and Self-Triggered Control for Linear System Based on New Event Condition</i>	
Li, Yunhui Huo, Ju Yang, Ming Cui, Jiashan	Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech. Control & Simulation Center Xidian Univ.	Zhu, Mingjian Fan, Yuan Chen, Jun	An Hui Univ. Anhui Univ. Anhui Univ.
▷ PSuB-146 <i>Compound Control System Design with Direct Thrust and Aerodynamic Force for Air Defense Missile</i>		▷ PSuB-156 <i>A Novel Tuning Method for PID Controller Based on Improved PSO Algorithm for Unstable Plants with Time Delay</i>	
Shi, Pengfei Dong, Xiwang Li, Qingdong Ren, Zhang	Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ.	Xie, Yuanhai Zhang, Wei	Univ. of Shanghai for Sci. & Tech. Univ. of Shanghai for Sci. & Tech.
▷ PSuB-147 <i>An UWB/PDR Fusion Algorithm Based on Improved Square Root Unscented Kalman Filter</i>		▷ PSuB-157 <i>基于铸坯质量的连铸二冷水量优化</i>	
Liu, Yuan Li, Sheng Sun, Qiang Chang, Chenfei	Nanjing Univ. of Sci. & Technolog Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. The Northern Research Inst. of NJUST,Tianjin 300220	Optimization of Continuous Casting of Second Cooling Water Based on Slab Quality	
He, Guangjian Kang, Xiao	Guangzhou Metro Group Co., Ltd., China North Vehicle Research Inst.	Wang, Si Luo, Xiaochuan Yang, Jishuai Deng, Mengyi Yu, Lu	Northeastern Univ. Northeastern Univ. Northeastern Univ. Northeastern Univ. Northeastern Univ.
▷ PSuB-148 <i>Loop Closure Detection for Visual SLAM Fusing Semantic Information</i>		▷ PSuB-158 <i>High-Voltage Power Transmission Tower Detection Based on Faster R-CNN and YOLO-V3</i>	
Hu, Mingyue Li, Sheng	Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech.	Wang, Hao Yang, Guodong Li, En Tian, Yunong Zhao, Meng Liang, Zize	Inst. of Automation, Chinese Acad. of Sci. Inst. of Automation, Chinese Acad. of Sci. Inst. of Automation, Chinese Acad. of Sci. Inst. of Automation, Chinese Acad. of Sci. North China Electric Power Univ. Inst. of Automation, Chinese Acad. of Sci.

Monday, July 29, 2019

PL4	8:30-9:30	Century Convention Hall, L2, Block 4	Rehak, Branislav	UTIA AV CR, V.v.i
大会报告4				
Plenary Lecture 4				
Chair: Xie, Lihua	Nanyang Technological University, Singapore			
► PL-4	8:30-9:30		Hao, Xu	Yangtze Univ.
<i>From Stabilizing to Economic Model Predictive Control: A Paradigm Shift Towards Increased Control Performance</i>			Li, Tao	Yangtze Univ.
Allgöwer, Frank	University of Stuttgart, Germany		Liu, Xiongding	Yangtze Univ.
			Sun, Shiping	Yangtze Univ.
PL5	9:30-10:30	Century Convention Hall, L2, Block 4	He, Wang	Yangtze Univ.
大会报告5			Li, Tao	Yangtze Univ.
Plenary Lecture 5			Yu, Kong	Yangtze Univ.
Chair: Lu, Renquan	Guangdong University of Technology		Lei, Yangmei	Yangtze Univ.
► PL-5	9:30-10:30		Liu, Wenjin	Yangtze Univ.
<i>Cyber-Physical Systems in Intelligence Age</i>				
Guan, Xiaohong	Xi'an Jiaotong University, China			
PD1	10:50-12:20	Century Convention Hall, L2, Block 4	Chen, Jian	Department of Information Sys.
专题研讨会1			Teng, Zhe	Dalian Naval Acad.
Panel Discussion 1				
Chair: Chen, Ben M.	Chinese University of Hong Kong, China			
► PD-1	10:50-12:20			
控制及自动化的现在和未来				
<i>Control and Automation: The Presence and the Future</i>				
Chen, Jie	Tongji University, China			
Ding, Zhengtao	University of Manchester, U.K.			
Huang, Jie	Chinese University of Hong Kong, China			
Lin, Zongli	University of Virginia, USA			
DF1	13:30-15:30	Dongguan Hall, L2, Block 4		
发展论坛1				
Development Forum 1				
Chair: Chu, Jian	Zhejiang University, China			
► DF-1	13:30-15:30			
智能制造前沿论坛				
<i>Intelligent Manufacturing Frontier</i>				
Qian, Feng	East China University of Science and Technology			
Li, Defang	SINOPEC Management Institute			
Huang, Pei	e-works			
Liu, Song	Alibaba Group			
Yu, Haibin	SUPCON			
MoA01	13:30-15:50	Room 3301, Block 3		
Regular Session: Complexity and Complex System Theory				
Chair: Rehak, Branislav	UTIA AV CR, V.v.i			
Co-Chair: Liu, Hui	Huazhong Univ. of Sci. & Tech.			
► MoA01-1	13:30-13:50			
<i>Stability and Bifurcation Analysis in A Single-Gene Regulatory Model with Delays via Dual State Feedback Control</i>				
Lu, Qiu	Nanjing Univ. of Posts & Telecommunications			
Wang, Huai Fei	Nanjing Univ. of Posts & Telecommunications			
	Automation School			
Xiao, Min	Nanjing Univ. of Posts & Telecommunications			
Tao, Binbin	Nanjing Univ. of Posts & Telecommunications			
Jiang, Guoping	Nanjing Univ. of Posts & Telecommunications			
► MoA01-2	13:50-14:10			
<i>Pining Control Algorithm for Complex Networks</i>				
Wang, Bingjun	Huazhong University of Sci. & Tech.			
Liu, Hui	Huazhong Univ. of Sci. & Tech.			
Xu, Jiangqiao	Huazhong University of Sci. & Tech.			
► MoA01-3	14:10-14:30			
<i>Global Dynamics of Knowledge Transmission Model on Scale-free Networks</i>				
Liu, Wenjin	Yangtze Univ.			
Li, Tao	Yangtze Univ.			
Ye, Gang	Yangtze Univ.			
Yu, Kong	Yangtze Univ.			
Lei, Yangmei	Yangtze Univ.			
► MoA01-4	14:30-14:50			
<i>Wirtinger Inequality-based Control Design for An Interconnected Large-scale System with Sampled Controls</i>				
Rehak, Branislav				
► MoA01-5	14:50-15:10			
<i>Spreading Dynamics of An Advertisement Model with Time Delay on Scale-free Networks</i>				
Hao, Xu				
Li, Tao				
Liu, Xiongding				
Sun, Shiping				
► MoA01-6	15:10-15:30			
<i>Online and Offline Rumor Spreading Dynamics on Scale-Free Networks</i>				
He, Wang				
Li, Tao				
Yu, Kong				
Lei, Yangmei				
Liu, Wenjin				
► MoA01-7	15:30-15:50			
<i>基于本体语义的海上编队作战方案要素体系构建方法研究</i>				
Study on the Architecture of Formation Operation Plan Elements Based on Semantic Ontology				
Chen, Jian				
Teng, Zhe				
MoA02	13:30-15:30	Room 3302, Block 3		
Regular Session: Nonlinear Systems and Control (3)				
Chair: Sun, Yimin	Sun Yat-sen Univ.			
Co-Chair: Teo, Tiong Teck	Newcastle Univ.			
► MoA02-1	13:30-13:50			
<i>On the Global Controllability for Planar Systems without Explicit Control Curves</i>				
Sun, Yimin	Sun Yat-sen Univ.			
► MoA02-2	13:50-14:10			
<i>Diagonal Stability Analysis of Discrete-Time Nonlinear Positive Switched Systems with Delays: A Homogeneous Polynomial Diagonal Lyapunov Function Method</i>				
Sun, Peng	Southwest Minzu Univ.			
Huang, Qinzhen	Southwest Univ. for Nationalities			
Yang, Jinxiang	Southwest Univ. for Nationalities			
► MoA02-3	14:10-14:30			
<i>Characteristic Analysis and Multi-model Control Research on Ring-shaped Heat Network with Triple Heat Sources</i>				
Tang, Weijie	Southeast Univ.			
Shen, Jiong	Southeast Univ.			
Zhang, Junli	Southeast Univ.			
► MoA02-4	14:30-14:50			
<i>Disturbance Observer Based Nonlinear Control for A Quadrotor Trajectory Tracking</i>				
He, Zhiping	Dalian Maritime Univ.			
Fan, Yunsheng	Dalian Maritime Univ.			
Cao, Jian	Dalian Maritime Univ.			
Wang, Guofeng	Dalian Maritime Univ			
► MoA02-5	14:50-15:10			
<i>Discrete-Time Adaptive Control of Nonlinear Systems with Input Delay</i>				
Abidi, Khalid	Newcastle Univ.			
Postlethwaite, Ian	Newcastle Univ.			
Teo, Tiong Teck	Newcastle Univ.			
► MoA02-6	15:10-15:30			
<i>An Improved Discrete-time Neural Network Controller Design for Spherical Inverted Pendulum Position Tracking System</i>				
Liu, Chenxi	Hefei Univ. of Tech.			
Ping, Zhaowu	Hefei Univ. of Tech.			
Huang, Yunzhi	Hefei Univ. of Tech.			
Lu, Jun-Guo	Shanghai Jiao Tong Univ.			
MoA03	13:30-15:50	Room 3303, Block 3		
Regular Session: Optimal Control				
Chair: Jiang, Aipeng	Hangzhou Dianzi Univ.			
Co-Chair: Jiang, Canghua	Hefei Univ. of Tech.			
► MoA03-1	13:30-13:50			
<i>Optimization of FOPID Controller Based on MPFGA</i>				

Sun, Qi	Nanjing Univ. of Sci. & Tech.	Cheng, Songsong	Acad. of Mathematics & Sys. Sci., Chinese Acad. of Sci.
Qi, Zhidong	Nanjing Univ. of Sci. & Tech.	Hong, Yiguang	Chinese Acad. of Sci.
Pei, Jin	Nanjing Univ. of Sci. & Tech.	► MoA04-4	14:30–14:50
Liu, Handong	Nanjing Univ. of Sci. & Tech.	<i>Application of Constrained Multi-objective Evolutionary Algorithm in A Compressed-air Station Scheduling Problem</i>	
► MoA03-2	13:50–14:10	Liu, Jianchang	Northeastern Univ.
<i>Optimal Motion Planning of Four-Wheeled Trailer System</i>		Yang, Yongkuan	Northeastern Univ.
Shi, Boyang	Dalian Univ. of Tech.	Tan, Shubin	Northeastern Univ.
Peng, Hai-Jun	Dalian Univ. of Tech.	Wang, Honghai	Inst. of Automation
Wang, Xinwei	Dalian Univ. of Tech.		
Gao, Lingchong	Chair of Material Handling, Material Flow, Logistics		14:50–15:10
Fottner, Johannes	Chair of Material Handling, Material Flow, Logistics		
► MoA03-3	14:10–14:30	► MoA04-5	
<i>A Novel Thrust Allocation Method Based on Improved Genetic Algorithm</i>		基于约束化和差分进化的多目标优化算法	
Ding, Fuguang	Harbin Engineering Univ.	<i>MOEA/D Based on Constrained Approach and Differential Evolution</i>	
Yu, Qingqing	Harbin Engineering Univ.	Zhou, Xin	East China Univ. of Sci. & Tech.
Xu, Yujie	Harbin Engineering Univ.	Wang, Xuewu	East China Univ. of Sci. & Tech.
Wang, Yuanhui	Harbin Engineering Univ.	Gu, Xingsheng	East China Univ. of Sci. & Tech., China
► MoA03-4	14:30–14:50	► MoA04-6	15:10–15:30
<i>A Moving Time Node Method for Solving Robot Optimal Control Problem</i>		基于改进粒子群优化算法的裁剪分床研究	
Jiang, Enhui	Hangzhou Dianzi Univ.	<i>Research on Cut Order Planning Based on Improved Particle Swarm</i>	
Xu, Weifeng	Hangzhou Dianzi Univ.	Lin, Wenjie	Department of Automation, Zhejiang Univ. of Tech.
Jiang, Aipeng	Hangzhou Dianzi Univ.	Wang, Yao-Wei	Zhejiang Univ. of Tech.
Gao, Hanhan	Hangzhou Dianzi Univ.	Wu, Xiang	Zhejiang Univ. of Tech.
Wang, Jian	Hangzhou Dianzi Univ.	Dong, Hui	Zhejiang Univ. of Tech.
Xiao, Yangjian	Hangzhou Dianzi Univ.	Zhang, Wenan	Zhejiang Univ. of Tech.
► MoA03-5	14:50–15:10	► MoA05	13:30–15:30
<i>An Efficient Algorithm to State-delay Identification Based on A Collocation Integrator and Adjoint Sensitivity Propagation</i>		Regular Session: Process Control	Room 3306, Block 3
Jiang, Canghua	Hefei Univ. of Tech.	Chair: Zhou, Xiaojun	School of Automation, Central South Univ.
Wu, Siyi	HeFei Univ. of Tech.	Co-Chair: Huang, Bingqiang	Zhejiang Univ. of Sci. & Tech.
Li, Xin	Hfut		
Yu, Changjun	Shanghai Univ.	► MoA05-1	13:30–13:50
► MoA03-6	15:10–15:30	<i>Interval Trajectory Tracking for AGV Based on MPC</i>	
<i>Study of Real-Time Online Closed-Loop Guidance Method Based on Adaptive Pseudo-spectral Method</i>		Xu, Hang	Shanghai Maritime Univ.
Bai, Yunfei	Beijing Aerospace Automatic Control Inst.	Zhu, Jin	Shanghai Maritime Univ.
Kang, Rui	Beijing Aerospace Automatic Control Inst.		
Gao, Yeye	Beijing Aerospace Automatic Control Inst.	► MoA05-2	13:50–14:10
Li, Bing	Beihang Univ.	<i>Intelligent Control Strategy Based on PSO-Elman Prediction Model for Ignition Temperature in Sintering Process</i>	
Jiang, Tongyang	Beijing Aerospace Automatic Control Inst.	Cen, Yanzhuo	China Univ. of GeoSci.
► MoA03-7	15:30–15:50	An, Jianqi	China Univ. of GeoSci.
<i>An Optimal Control Method for Three-Cell-Interleaved High-Power Fly-back Inverter to Improve the Efficiency</i>		► MoA05-3	14:10–14:30
Peng, Yunjian	South China Univ. of Tech.	<i>Soft Measurement Model of Raw Meal Decomposition Ratio Based on Data Driven for Raw Meal Calcination Process</i>	
Wang, Xu	South China Univ. of Tech.	Qiao, Jinghui	Shenyang Univ. of Tech.
Sun, Weijie	South China Univ. of Tech.	Zhao, Xiaowei	Shenyang Univ. of Tech.
MoA04	13:30–15:30	Chai, Tianyou	Northeastern Univ.
Regular Session: Optimization and Scheduling (3)		► MoA05-4	14:30–14:50
Chair: Lu, Jiamin	Guangzhou Energy Inspection & Research Inst.	<i>A Rolling PID Control Approach and Its Applications</i>	
Co-Chair: Cheng, Songsong	Acad. of Mathematics & Sys. Sci., Chinese Acad. of Sci.	Zhou, Xiaojun	School of Automation, Central South Univ.
► MoA04-1	13:30–13:50	► MoA05-5	14:50–15:10
<i>Study on Steady Flow Structure of Gas Flow Standard Device</i>		<i>Model Predictive Control Based on Bayesian Forecasting for A Nitrobenzene Rectifying Tower</i>	
Wan, Yong	Guangzhou Energy Inspection & Research Inst.	Huang, Bingqiang	Zhejiang Univ. of Sci. & Tech.
Lu, Jiamin	Guangzhou Energy Inspection & Research Inst.		
Chen, Yixiang	Guangzhou Energy Inspection & Research Inst.	► MoA05-6	15:10–15:30
Xie, Xiaofang	Guangzhou Energy Inspection & Research Inst.	<i>Natural Gas Pipeline</i>	
► MoA04-2	13:50–14:10	Study of Transient Control of Natural Gas Pipeline	
<i>Study on the Optimization of Metering Characteristics of Water Flow Standard Device</i>		Wen, Kai	Peking Univ.
Wan, Yong	Guangzhou Energy Inspection & Research Inst.	Geng, Zhiyong	Peking Univ.
Pan, Yunfei	Guangzhou Energy Inspection & Research Inst.		
Lu, Jiamin	Guangzhou Energy Inspection & Research Inst.	MoA06	13:30–15:30
Wu, Bo	Guangzhou Energy Inspection & Research Inst.	Regular Session: Motion Control (3)	Room 3307, Block 3
► MoA04-3	14:10–14:30	Chair: Zhao, Dongya	China Univ. of Petroleum
<i>A Distributed Algorithm for Solving Linear Equation $AX+XB=C$</i>		Co-Chair: Zhou, Yusheng	Guizhou Univ.
Niu, Shanshuai			13:30–13:50
Wang, Junzheng		► MoA06-1	
Zhao, Jiangbo		<i>An Energy-saving Position Control Strategy for Electro-hydraulic Servo System with Parallel Dual Valves</i>	
Zhang, Peng		Niu, Shanshuai	Beijing Inst. of Tech.
Wang, Shou Kun		Wang, Junzheng	Beijing Inst. of Tech.
Shen, Wei		Zhao, Jiangbo	Beijing Inst. of Tech.
		Zhang, Peng	Beijing Inst. of Tech.
		Wang, Shou Kun	Beijing Inst. of Tech.
		Shen, Wei	Key Laboratory of Intelligent Control & Decision of Complex Sys., School of Automation, Beijing Inst. of Tech.

► MoA06-2	13:50–14:10	Yan, Liping Xia, Yuanqing	Beijing Inst. of Tech. Beijing Inst. of Tech.
Comparison of Several Active Disturbance Rejection Control Methods for Rigid-Flexible Coupling Motion Stage			
Hao, Peng Sun, Han Yang, Zhijun Chen, Sen	Guangdong Univ. of Tech. Guangdong Univ. of Tech. Guangdong Univ. of Tech. Acad. of Mathematics & Sys. Sci., Chinese Acad. of Sci.		
► MoA06-3	14:10–14:30		
面向关节僵硬的康复外骨骼设计与柔顺控制			
Design and Compliant Control of Rehabilitation Robotic Exoskeleton for Ankylosis			
Zhang, Sihan Shi, Tuo Zhu, Qiuguo Zhang, Yifeng Xiong, Rong	Zhejiang Univ. Zhejiang Univ. Zhejiang Univ. Zhejiang Univ. Zhejiang Univ.		
► MoA06-4	14:30–14:50		
Turning Motion Control Design of the Two-wheeled Mobile Structure by Using A Dynamical Tracking Target			
Zhou, Yusheng	Guizhou Univ.		
► MoA06-5	14:50–15:10		
Disturbance Observer Based Adaptive Sliding Mode Control for A Continuous Stirred Tank Reactor			
Zhao, Dongya Spurgeon, Sarah	China Univ. of Petroleum Univ. of Kent		
► MoA06-6	15:10–15:30		
Model-Assisted Extended State Observer Based Repetitive Control for High Precision Tracking of Piezoelectric Nanopositioning Stages			
Feng, Zhao Ling, Jie Ming, Min Xiao, Xiaohui	Wuhan Univ. Wuhan Univ. Wuhan Univ. Wuhan Univ.		
MoA07	13:30–15:30	Room 3308, Block 3	
Regular Session: Signal Processing and Information Fusion (3)			
Chair: Yin, Guodong Co-Chair: Liu, Ting	Southeast Univ. Dalian Maritime Univ.		
► MoA07-1	13:30–13:50		
GPS-assisted Aerial Image Stitching Based on Optimization Algorithm			
Zhang, Ting Zhu, Minzhao	Beijing Inst. of Tech. Beijing Inst. of Tech.		
► MoA07-2	13:50–14:10		
Underwater Target Tracking in Three Dimensional Space Based on Sound Speed Profile			
Li, Yan Wang, Wenliang	Zhejiang Univ. China State Shipbuilding Corporation (Zhe Jiang) Ocean Tech. CO., LTD		
Liu, Meiqin Zhang, Senlin Lan, Jian	Zhejiang Univ. Zhejiang Univ. Xi'an Jiaotong Univ.		
► MoA07-3	14:10–14:30		
Weighted RPCA Based Background Subtraction for Automatic Berthing			
Zhan, Yinxiao Liu, Ting	Dalian Maritime Univ. Dalian Maritime Univ.		
► MoA07-4	14:30–14:50		
NLMS Algorithm Robust Against Noisy Input and Impulsive Noise in Sparse Systems			
Lee, Minho Kim, Dongwoo Park, Poogyeon	Pohang Univ. of Sci. & Tech. POSTECH POSTECH		
► MoA07-5	14:50–15:10		
Small Objects Detection with Multi-layer Laser Radar Based on Projection Dimensionality Reduction			
Liu, Shuai Peng Geng, Keke Yin, Guodong Wu, Conglei Ye, Jianwei	Southeast Univ. Southeast Univ. Southeast Univ. Southeast Univ. Southeast Univ.		
► MoA07-6	15:10–15:30		
Fusion Estimation for Nonlinear Systems with Heavy-tailed Noises			
Di, Chenying	Beijing Inst. of Tech.		
MoA08	13:30–15:30	Room 3309, Block 3	
Regular Session: Navigation and Guidance (3)			
Chair: Huang, Xianlin Co-Chair: Huang, Hanbin	Harbin Inst. of Tech. Beijing Aerospace Automatic Control Inst.		
► MoA08-1	13:30–13:50		
A New Precision Evaluation Method for Signals of Opportunity Based OnCRAMER-RAO Lower Bound in Finite Error			
Zheng, Yuanxun Li, Qinghua Wang, Changhong Shao, Xuehui Yang, Baisheng	Beijing Aerospace Automatic Control Inst. Beijing Aerospace Automatic Control Inst.		
► MoA08-2	13:50–14:10		
Fixed-time Guidance Law for Intercepting Maneuvering Targets with Impact Angle Constraint			
Wang, Xinxin Huang, Xianlin Ding, Shuchen Lu, Hongqian	Beihang Univ. Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech.		
► MoA08-3	14:10–14:30		
Quantitative Research on GPS Positioning in An East-North-Up Coordinate System			
Guo, Yanbing Miao, Ling-Juan Zhang, Xi	Beijing Inst. of Tech. Beijing Inst. of Tech., Qianxun SI Inc		
► MoA08-4	14:30–14:50		
A Fast-Online Guidance Method for Trajectory Correction Projectiles			
Mou, Yuhua Zhang, Jing Yang, Lingyu Feng, Xiaoke	Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ.		
► MoA08-5	14:50–15:10		
A PSO Trajectory Optimization Method of Ascent Stage Based on Parameterized Angle of Attack			
Huang, Hanbin Ma, Haolei Yang, Ye	Beijing Aerospace Automatic Control Inst. Beijing Aerospace Automatic Control Inst. Beijing Aerospace Automatic Control Institution		
► MoA08-6	15:10–15:30		
An Integrated System Using Federated Kalman Filter for UGV Navigation in GNSS-denied Environment			
Wang, Meiling Zhai, Chaoyang Yang, Yi Shen, Kai	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.		
MoA09	13:30–15:30	Room 3311, Block 3	
Regular Session: Adaptive Control and Learning Control (3)			
Chair: Zuo, Min Co-Chair: Xia, Xiaonan	Beijing Tech. & Business Univ. Yangzhou Univ.		
► MoA09-1	13:30–13:50		
Collaborative Multi-Agent Tracking Based on Distributed Learning			
Qiu, Xuyi	China National Aeronautical Radio Electronics Research Inst.		
Zhai, Yiwei Wan, Kaifang	Northwestern Polytechnical Univ. Northwestern Polytechnical Univ.		
► MoA09-2	13:50–14:10		
Adaptive Neural Tracking Control of Nonlinear Systems with Output Constraint and Input Delay			
Kang, Guanpeng Xia, Xiaonan	Yangzhou Univ. Yangzhou Univ.		
► MoA09-3	14:10–14:30		
Feedforward and Feedback Model Free Adaptive Iterative Learning Control with Application to A Linear Motor System			
Duan, Li Yu, Xian Jin, Shangtai Hou, Zhongsheng Bu, Xuhui	Beijing Jiaotong Univ. Beijing Jiaotong Univ. Beijing Jiaotong Univ. Beijing Jiaotong Univ. Henan Polytechnic Univ.		
► MoA09-4	14:30–14:50		

<i>A Tracking Control Method Based on Event-Triggered Adaptive Dynamic Programming</i>			
Wang, Ziyang	Univ. of Sci. & Tech. Beijing	13:50–14:10	
Wei, Qinglai	Inst. of Automation	Asynchronous Subgradient-push Algorithm for Distributed Optimization over Directed Graphs	
Liu, Derong	Chinese Acad. of Sci.	Zhang, Jiaqi You, Keyou	
► MoA09-5	14:50–15:10	Tsinghua Univ. Tsinghua Univ.	
<i>Event-triggered Adaptive Optimal Control Using Output Feedback: An Adaptive Dynamic Programming Approach</i>			
Zhao, Fuyu	Northeastern Univ.	Ding, Yu	
Jiang, Zhong-Ping	New York Univ.	Cong, Yirui	
Liu, Tengfei	Northeastern Univ.	Wang, Xiangke	
► MoA09-6	15:10–15:30	Li, Huiming	
<i>Control of Epileptiform Waves in A Neural Mass Model</i>			
Wei, Wei	Beijing Tech. & Business Univ.	National Univ. of Defense Tech.	
Wei, Xiaofang	Beijing Tech. & Business Univ.	National Univ. of Defense Tech.	
Zuo, Min	Beijing Tech. & Business Univ.	National Univ. of Defense Tech.	
► MoA10	13:30–15:30	National Univ. of Defense Tech.	
Room 3312, Block 3 <i>Regular Session: Control of Network Systems and Networked Control Systems (2)</i>			
Chair: Wang, Lin	Shanghai Jiao Tong Univ.	Elmokadem, Taha	
Co-Chair: Ge, Ming-Feng	China Univ. of GeoSci. (Wuhan)	Univ. of New South Wales	
► MoA10-1	13:30–13:50	► MoA11-3	14:10–14:30
<i>Estimation Against Adversarial Attacks for Discrete-time Systems with Intermittent Observations</i>			
Yu, Xiao-Tian	Zhejiang Univ. of Tech.	Seeking the Scalability in Algebraic Graph Based Unmanned Aerial Vehicle Formation Control	
Feng, Yu	Zhejiang Univ. of Tech.	Ding, Yu	
Zhu, Jun-Wei	Zhejiang Univ. of Tech.	Cong, Yirui	
► MoA10-2	13:50–14:10	Wang, Xiangke	
<i>Resilient Event-Triggered Controller Synthesis of Load Frequency Control for Multi-Area Power Systems under Periodic DoS Jamming Attacks</i>		Li, Huiming	
Xue, Tianliang	China Three Gorges Univ.	► MoA11-4	14:30–14:50
Liu, Ximao	China Three Gorges Univ.	Distributed Coverage Control for Robotic Sensor Networks in 3D Sensing Fields: Barrier and Sweeping Problems	
Zeng, Yangyang	China Three Gorges Univ.	Elmokadem, Taha	
Zhang, Yunning	China Three Gorges Univ.	Univ. of New South Wales	
► MoA10-3	14:10–14:30	► MoA11-5	14:50–15:10
<i>Robust Control Centrality</i>			
Usman, Umair	Shanghai Jiao Tong Univ.	Consensus Disturbance Rejection for Linear Multi-agent Systems Based on Output Feedback	
Mahmood, Arfan	Shanghai Jiao Tong Univ.	Mu, Rui	
Wang, Lin	Shanghai Jiao Tong Univ.	Wei, Airong	
► MoA10-4	14:30–14:50	► MoA11-6	15:10–15:30
<i>A Dynamic Event-Triggered Rule for A Control System</i>			
Guo, Yao	Beijing Inst. of Tech.	Bipartite Antagonistic Time-Varying Formation Tracking for Multi-agent System	
Sun, Jian	Beijing Inst. of Tech.	Wang, Jianhua	
► MoA10-5	14:50–15:10	Han, Liang	
<i>Multisynchronization of A Class of Delayed Memristor-based Neural Networks</i>		Dong, Xiwang	
Lin, Ya-Qi	Wuhan Univ. of Sci. & Tech.	Li, Qingdong	
Ge, Ming-Feng	China Univ. of GeoSci. (Wuhan)	Ren, Zhang	
Ding, Teng-Fei	China Univ. of GeoSci.	► MoA12	13:30–15:30
Zhu, Ziqi	Wuhan Univ. of Sci. & Tech.	Room 3315, Block 3 <i>Regular Session: Vehicle Control and Transportation Systems (3)</i>	
He, Juanjuan	Wuhan Univ. of Sci. & Tech.	Chair: Wang, Jinxiang	
► MoA10-6	15:10–15:30	Co-Chair: Zhuang, Weichao	
<i>Synchronization of the Complex Dynamic Networks with Coupling Delays via Quantized Pinning Control</i>			
Chen, Hui	Wuhan Univ. of Sci. & Tech.	► MoA12-1	13:30–13:50
Ge, Ming-Feng	China Univ. of GeoSci. (Wuhan)	Cooperative Merging for Multiple Connected and Automated Vehicles at Highway On-Ramps via Virtual Platoon Formation	
Ding, Teng-Fei	China Univ. of GeoSci.	Huang, Zehao	
Zhang, Kai	Wuhan Univ. of Sci. & Tech.	Zhuang, Weichao	
He, Juanjuan	Wuhan Univ. of Sci. & Tech.	Yin, Guodong	
► MoA11	13:30–15:30	Xu, Liwei	
Room 3313, Block 3 <i>Regular Session: Multi-Agent Systems and Distributed Control (3)</i>		Luo, Kai	
Chair: You, Keyou	Tsinghua Univ.	► MoA12-2	13:50–14:10
Co-Chair: Dong, Xiwang	Beihang Univ.	Energy-Efficient Feedback Control Strategy of Vehicle Platoon on Highway with Varying Slopes	
► MoA11-1	13:30–13:50	Huang, Zehao	
<i>The Event-based Consensus of Multi-agent Networks with Control Gain Obeying the Normal Distributions</i>		Zhuang, Weichao	
Tan, Xuegang	Southeast Univ.	Xu, Liwei	
Cao, Jinde	Southeast Univ.	Yin, Guodong	
Chen, Rensi	Southeast Univ.	Huang, Zehao	
Yue, Dongdong	Southeast Univ.	► MoA12-3	14:10–14:30
<i>Stability and Trajectory Control for Post-Impact Vehicle Based on Fuzzy PID Algorithm</i>			
► MoA12-4	14:30–14:50	Shared Control between Driver Steering and Differential Drive Assistance System Considering Driver' s Characteristics	
Wang, Xingyu	Jilin Univ. (Campus NanLing)	Feng, Chao	
Wang, Ping	JiLin Univ.	Wang, Jinxiang	
Wang, Fei	Jilin Univ. (Campus NanLing)	Pi, Dawei	
Chen, Hong	Jilin Univ.	Yin, Guodong	
► MoA12-5	14:50–15:10	Fang, Zhenwu	
<i>Modeling of Driver' s Steering Behavior in Large-Curvature Path Following with Back Propagation Neural Network</i>		► MoA12-6	15:10–15:30
► MoA12-6	15:10–15:30	Wang, Jinxiang	
Wang, Jinxiang	Southeast Univ.	Li, Pu	
Li, Pu	Southeast Univ.	Xia, Jingjing	
Xia, Jingjing	Huaiyin Inst. of Tech.	► MoA12-5	14:50–15:10
<i>Stability and Trajectory Control for Post-Impact Vehicle Based on Fuzzy PID Algorithm</i>			
► MoA12-4	14:30–14:50	► MoA12-6	15:10–15:30
Wang, Xingyu	Jilin Univ. (Campus NanLing)	► MoA12-5	14:50–15:10
Wang, Ping	JiLin Univ.	► MoA12-6	15:10–15:30
Wang, Fei	Jilin Univ. (Campus NanLing)	► MoA12-5	14:50–15:10
Chen, Hong	Jilin Univ.	► MoA12-6	15:10–15:30

Consensus Analysis of Vehicle Platoon with Hidden Layer Against Stochastic Noise

Li, Ziyuan
Liu, Yonggui
South China Univ. of Tech.
South China Univ. of Tech.

MoA13 13:30–15:30 Room 3401, Block 3
Regular Session: Aircraft Control (3)

Chair: Hu, Qinglei
Co-Chair: Zhu, Xiaoyuan
Beihang Univ.
Shanghai Maritime Univ.

► MoA13-1 13:30–13:50
The Ground Station Design for Swarm Unmanned Aerial Vehicle Control

Han, Bo
Hu, Chaofang
Zhou, Yimin
Tianjin Univ.
Tianjin Univ.
Shenzhen Inst.s of Advanced Tech., Chinese Acad. of Sci.

► MoA13-2 13:50–14:10
Distributed Connectivity Maintenance and Collision Avoidance Control of Spacecraft Formation Flying

Xue, Xianghong
Yue, Xiao Kui
Yuan, Jianping
Northwestern Polytechnical Univ.
Northwestern Polytechnical Univ.
Northwestern Polytechnical Univ.

► MoA13-3 14:10–14:30
Adaptive Control for Autonomous Spacecraft Rendezvous with Approaching Path Constraint

Shao, Xiaodong
Hu, Qinglei
Beihang Univ.
Beihang Univ.

► MoA13-4 14:30–14:50
Extended State Observer Based MPC for A Quadrotor Helicopter Subject to Wind Disturbances

Lv, Tong
Yang, Yanhua
Chai, Li
Wuhan Univ. of Sci. & Tech.
Wuhan Univ. of Sci. & Tech.
Wuhan Univ. of Sci. & Tech.

► MoA13-5 14:50–15:10
Distributed Attitude Coordination Control for Multiple Flexible Spacecraft with Communication Delays

Shi, Yongxia
Hu, Qinglei
Beihang Univ.
Beihang Univ.

► MoA13-6 15:10–15:30
Experimental Results on Robust Attitude Control of A 3-DOF Helicopter under Wind Disturbances

Li, Doudou
Zhu, Xiaoyuan
Li, Wei
Chen, Shurong
Shanghai Maritime Univ.
Shanghai Maritime Univ.
Shanghai Maritime Univ.
Shanghai Maritime Univ.

MoA14 13:30–15:30 Room 3402, Block 3

Regular Session: Neural Networks and Deep Learning (3)

Chair: Chi, Haihong
Co-Chair: Wang, Xinqiang
Harbin Engineering Univ.
The Key Laboratory of Sys. & Control

► MoA14-1 13:30–13:50
Attention-based LSTM Network for Wearable Human Activity Recognition

Sun, Bo
Liu, Meiqin
Zheng, Ronghao
Zhang, Senlin
Zhejiang Univ.
Zhejiang Univ.
Zhejiang Univ.
Zhejiang Univ.

► MoA14-2 13:50–14:10
Multi Mask Learning of Stone Segmentation for Auto-Monitoring System in TBM Construction

Xue, Zhenfeng
Jia, Lianhui
Sun, Wei
Lin, Fulong
Liu, Zhitao
Mao, Weijie
Zhejiang Univ.
China Railway Engineering Equipment Group
China Railway Engineering Equipment Group
China Railway Engineering Equipment Group
Zhejiang Univ.
Zhejiang Univ.

► MoA14-3 14:10–14:30
Multi-target Detection for Aerial Images Based on Fully Convolutional Networks

Chi, Haihong
Zhang, Xianjie
Gao, Xiangrui
Harbin Engineering Univ.
Harbin Engineering Univ.
Harbin Engineering Univ.

► MoA14-4 14:30–14:50
A Framework for Distributed Representations of Domain Embedding

Hou, Yuqing
Jin, Feng
Zhao, Baicheng
Zhang, Wei
Beijing Inst. of Tech.
Beijing Inst. of Tech.
Beijing Inst. of Tech.
Beijing Inst. of Tech.

► MoA14-5 14:50–15:10
Online Time Series Prediction by ARX(∞) Approximation Algorithm

Wang, Xinqiang
Guo, Lei
The Key Laboratory of Sys. & Control
Chinese Acad. of Sci.

MoA15 13:30–15:30 Room 3403, Block 3

Regular Session: Information Systems and Cyber Security

Chair: Chang, Xu
Co-Chair: Yang, Ziyi
Shandong Univ. of Political Sci. & Law
Guizhou Univ.

► MoA15-1 13:30–13:50
JPEG Fragment Carving Based on Pixel Similarity of MED.ED

Chang, Xu
Wu, Jian
Hao, Fanchang
Shandong Univ. of Political Sci. & Law
Shandong Univ. of Political Sci. & Law
Shandong Jianzhu Univ.

► MoA15-2 13:50–14:10
Event-triggered Stabilization of Linear Plants Subject to Periodic Denial-of-Service Attacks and Disturbances

Jiang, Meiqi
Yu, Hao
Hao, Fei
Beihang Univ.
Beihang Univ.
Beihang Univ.

► MoA15-3 14:10–14:30
Modeling and Analysis of Cascading Failures Considering Risk Awareness

Fan, Dongmei
Song, Bo
Zhang, Zhen-Hao
Song, Yurong
Jiang, Guoping
Nanjing Post & Communication Univ.
Nanjing Univ. of Posts & Telecommunications
Nanjing Univ. of Posts & Telecommunications
Nanjing Univ. of Posts & Telecommunications
Nanjing Univ. of Posts & Telecommunications

► MoA15-4 14:30–14:50
A Compensation Control Scheme Against DoS Attack for Nonlinear Cyber-physical Systems

Zhang, Meng
Shen, Chao
Han, Sicong
Zhejiang Univisity
Xi'an Jiaotong Univ.
Xi'an Jiaotong Univ.

► MoA15-5 14:50–15:10
Attack and Defense Game Strategy of Wireless Sensor Networks under Multiple Attacks

Yang, Ziyi
Guizhou Univ.

► MoA15-6 15:10–15:30
Secure Communication Scheme in Vehicular Network with Consideration of Outage Probability Constraint

Wang, Yongkang
Liu, Zhixin
Zhao, Zhi Wei
Ma, Kai
Yanshan Univ.
Inst. of Electrical Engineering, Yanshan Univ.
TangShan Univ.
Yanshan Univ.

MoA16 13:30–15:30 Room 3405, Block 3

Invited Session: Emerging problems and techniques in intelligent control of multi-agent systems

Organizer: Fang, Hao
Organizer: Liu, Lu
Chair: Fang, Hao
Co-Chair: Liu, Lu
Beijing Inst. of Tech.
City Univ. of Hong Kong
Beijing Inst. of Tech.
City Univ. of Hong Kong

► MoA16-1 13:30–13:50
Tunable Formation Realization for Nonholonomic Mobile Robots Using the Stress Matrix

Yang, Qingkai
Fang, Hao
Cao, Ming
Shang, Chengsi
Wei, Yue
Beijing Inst. of Tech.
Beijing Inst. of Tech.
Univ. of Groningen
Beijing Inst. of Tech.
Beijing Inst. of Tech.

► MoA16-2 13:50–14:10
Cooperative Output Regulation of Linear Multi-Agent Systems Using Distributed Dynamic Event-Triggered Control

Qian, Yang-Yang
Liu, Lu
Feng, Gang
City Univ. of Hong Kong
City Univ. of Hong Kong
City Univ. of Hong Kong

► MoA16-3 <i>Distributed Containment Control of Multi-Agent Systems with Velocity and Acceleration Saturations</i>	14:10–14:30	Room 3407, Block 3
Liu, Tengfei Qi, Jia Jiang, Zhong-Ping	Northeastern Univ. Northeastern Univ. New York Univ.	
► MoA16-4 <i>Corrected Gradient Methods for Distributed Optimization</i>	14:30–14:50	
Qiu, Zhirong Xie, Lihua You, Keyou	Nanyang Technological Univ. Nanyang Technological Univ. Tsinghua Univ.	
► MoA16-5 <i>Control Based Motion Primitives for Quadrotor Trajectory Generation</i>	14:50–15:10	
Lai, Shupeng Lan, Menglu Chen, Ben M.	National Univ. of Singapore National Univ. of Singapore Chinese Univ. of Hong Kong	
► MoA16-6 <i>Equivalence-Based Model of Dimension-Varying Linear Systems</i>	15:10–15:30	
Cheng, Daizhan Xu, Zhenhui Shen, Tielong	Chinese Acad. of Sci. Univ. of Sci. & Tech. of China Sophia Univ.	
MoA17	13:30–15:30	Room 3406, Block 3
Invited Session: Distributed Control and Optimization		
Organizer: Liu, Shuai Organizer: Li, Xiuixian Chair: Liu, Shuai Co-Chair: Wen, Guanghui	Shandong Univ. Nanyang Technological Univ. Shandong Univ. Southeast Univ.	
► MoA17-1 <i>Average-consensus Tracking for First-order Multi-agent Systems Based on Sampled Data</i>	13:30–13:50	
Gu, Xiaoyu Liu, Cheng-Lin	Jiangnan Univ. Jiangnan Univ.	
► MoA17-2 <i>Neuro-adaptive Consensus Tracking of Multiagent Systems with Ahigh-dimensional Leader and Directed Switching Topologies</i>	13:50–14:10	
Wen, Guanghui Wang, Peijun Lv, Yuezu	Southeast Univ. Southeast Univ. Peking Univ.	
► MoA17-3 <i>Feasibility Analysis for Cooperative Interception of Hypersonic Maneuvering Target</i>	14:10–14:30	
Guo, Dong	Aircraft Control Integrated National Defense Key Laboratory, Beihang Univ.	
Dong, Xiwang Ren, Zhang Li, Qingdong	Beihang Univ. Beihang Univ. Beihang Univ.	
► MoA17-4 <i>Distributed Push-Sum Algorithm for Multi-Agent Optimization via One-Point Gradient Estimator</i>	14:30–14:50	
Wang, Cong Yuan, Deming Zhang, Baoyong	Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech.	
► MoA17-5 <i>A Distributed Algorithm for Weighed Least-squares Estimation in Large Networked Systems</i>	14:50–15:10	
Yang, Qiqi Zhang, Zhaorong Fu, Minyue	Shandong Univ. Univ. of Newcastle The Univ. of Newcastle	
► MoA17-6 <i>Distributed Formation Control for Time-delayed Multi-agent Systems with Double-integrator Dynamics</i>	15:10–15:30	
Han, Liang Dong, Xiwang Li, Qingdong Ren, Zhang	Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ.	
MoA18	13:30–15:30	Room 3407, Block 3
Invited Session: Analysis, Control and Applications of Complex Network Systems (2)		
Organizer: Wang, Jin-Liang Organizer: Wu, Huai-Ning Organizer: Chen, Wu-Hua Chair: Zhong, Shouming Co-Chair: Luo, Yiping	BUAA Beijing Univ. of Aeronautics & Astronautics Guangxi Univ. Univ. of Electronic Sci. & Tech. of China Hunan Inst. of Engineering	
► MoA18-1 <i>Finite-time Synchronization of A Class of Uncertain Complex Dynamic Networks with Delays</i>	13:30–13:50	
Luo, Yiping Yao, Yue-Jie	Hunan Inst. of Engineering Hunan Inst. of Engineering	
► MoA18-2 <i>Fully Distributed Tracking Control for Second-order Nonlinear Multi-agent Systems without Velocity Measurement</i>	13:50–14:10	
Zhu, Hongsheng Qin, Xinshang Li, Zhenxing Liu, Zhaodong Yang, Chengdong Zhang, Ancai	Linyi Univ. Linyi Univ. Linyi Univ. Iinyi Univ. Linyi Univ. Linyi Univ.	
► MoA18-3 <i>A New Result on Reaction-diffusion Genetic Regulatory Networks with Time-varying Delays</i>	14:10–14:30	
Wang, Wenqin Zhong, Shouming Liu, Feng	Tianjin Polytechnic Univ. Univ. of Electronic Sci. & Tech. of China Tianjin Medical Univ. General Hospital	
► MoA18-4 <i>Generalized Lag Output Synchronization of the Multiple Output Coupled Complex Dynamical Networks</i>	14:30–14:50	
Zhao, Linhao Ren, Shun-Yan Liu, Yeping Shi, Yiwei	Tianjin Polytechnic Univ. Tianjin Polytechnic Univ. Tianjin Polytechnic Univ. Tianjin Polytechnic Univ.	
► MoA18-5 <i>Adaptive Control for Passivity and Synchronization of Coupled Reaction-Diffusion Neural Networks with Multiple State Couplings</i>	14:50–15:10	
Wang, Lu Ren, Shun-Yan Zhang, Yu	Tianjin Polytechnic Univ. Tianjin Polytechnic Univ. Tianjin Polytechnic Univ.	
► MoA18-6 <i>Non-fragile Memory H_∞ Control for Uncertain Delayed Neural Networks via A Robust Gain-scheduling Method</i>	15:10–15:30	
Wang, Jun Huang, Qinzhen Shi, Kaibo Zhong, Shouming	Southwest Univ. Southwest Univ. for Nationalities Univ. of Electronic Sci. & Tech. of China Univ. of Electronic Sci. & Tech. of China	
MoA19	13:30–15:30	Room 3408, Block 3
Invited Session: Intelligent Controls, Diagnosis and Health Management of Aero-engines (1)		
Organizer: Sun, Xi-Ming Organizer: Zhang, Haibo Organizer: Du, Xian Chair: Sun, Xi-Ming Co-Chair: Du, Xian	Dalian Univ. of Tech. Nanjing Univ. of Aeronautics & Astronautics Dalian Univ. of Tech. Dalian Univ. of Tech. Dalian Univ. of Tech.	
► MoA19-1 <i>Adaptive Observer Based Fault Tolerant Control for Aircraft Engine with Sensors and Actuators Faults</i>	13:30–13:50	
Xiao, Lingfei Meng, Zhongxiang Huang, Xinhao Ma, Leiming	Nanjing Univ. of Aeronautics & Astronautics Nanjing Univ. of Aeronautics & Astronautics Nanjing Univ. of Aeronautics & Astronautics Nanjing Univ. of Aeronautics & Astronautics	
► MoA19-2 <i>Interval Error Observer-based Active Fault Tolerant Control for LPV Systems of the Aero-Engines</i>	13:50–14:10	
Wang, Ye Ma, Yanhua Wang, Rui	Dalian Univ. of Tech. Dalian Univ. of Tech. Dalian Universitu of Tech.	
► MoA19-3 <i>Main Fuel Pump Health Monitoring Method Based on Kriging Surrogate</i>	14:10–14:30	

<i>Model</i>																																																																																																																																																																																																																					
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<i>Versatile Simulation Platform for Turboshaft Engine Control System</i>		<i>Modeling and Learning-based Optimization of the Energy Dispatch for A Combined Cooling, Heat and Power Microgrid System with Uncertain Sources and Loads</i>																																																																																																																																																																																																																			
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<i>An Optimization Strategy for Aero-engine Transient Control Schedule Based on the On-board Adaptive Model</i>		<i>An Indoor Occupant Distribution Estimation Method Based on Improved Stay-Time Algorithm</i>																																																																																																																																																																																																																			
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<i>Multivariable Control for Aero-engine Based on Active Disturbance Rejection Control</i>		<i>Perspective on Automation of Statistical Modeling Process for Battery Lifetime Prediction</i>																																																																																																																																																																																																																			
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MoA20	13:30–16:30																																																																																																																																																																																																																				
<i>Invited Session: Control and Optimization for Cyber Physical Energy Systems</i>		MoA21	13:30–15:30																																																																																																																																																																																																																		
Organizer: Jia, Qing-Shan	Tsinghua Univ.	Room 3410, Block 3																																																																																																																																																																																																																			
Chair: Jia, Qing-Shan	Tsinghua Univ.	<i>Invited Session: Hybrid Systems and ASSR (1)</i>																																																																																																																																																																																																																			
Co-Chair: Tang, Hao	Hefei Univ. of Tech.	► MoA20-1	13:30–13:50	Organizer: Li, Haitao	Shandong Normal Univ.	<i>Electricity Price-based Microgrid Energy Management System in Grid-connected Mode</i>		Organizer: Lu, Jianquan	Southeast Univ.	Xiong, Xiaoyun	Shanghai Univ.	Chair: Li, Haitao	Shandong Normal Univ.	Peng, Chen	Shanghai Univ.	Co-Chair: Yan, Yongyi	Nankai Univ.	Zeng, De-Liang	North China Electric Power Univ.			► MoA20-2	13:50–14:10			<i>Research on Integrated Day Ahead Market Trading Strategy Based on Wind Power and Photovoltaic</i>		► MoA21-1	13:30–13:50	Hao, Qihan	Central South Univ.	<i>Observability Analysis of Parallel Combining Automata Based on Algebraic State Space</i>		Qiu, Zhifeng	Central South Univ.	Zhou, Yingrui	Nankai Univ.	Cao, Huohui	Central South Univ.	Chen, Zengqiang	Nankai Univ.	Xiang, Jinyong	Central South Univ.	Zhang, Zhipeng	Nankai Univ.	Gui, Weihua	Central South Univ.	Liu, Zhongxin	NanKai Univ.	► MoA20-3	14:10–14:30			<i>Optimal Configuration for Combined Cooling, Heating, and Power System with Waste Heat Recovery of Domestic Hot Water</i>		► MoA21-2	13:50–14:10	Zhang, Liang	Shandong Univ.	<i>Structural Stability and Structural Controllability of Boolean Networks</i>		Sun, Bo	Shandong Univ.	Liang, Shuang	Shandong Normal Univ.	► MoA20-4	14:30–14:50	Li, Haitao	Shandong Normal Univ.	<i>A Temperature Optimal Control Method of Temperature Control System Considering Thermal Inertia</i>		► MoA21-3	14:10–14:30	Yang, Zhichao	Shandong Univ.	<i>Construction of Incompatible Graph of Finite State Machines Using the Theory of Semi-tensor Product of Matrices</i>		Sun, Bo	Shandong Univ.	Yan, Yongyi	Nankai Univ.	Li, Fan	Shandong Univ.	Yue, Jumei	Henan Univ. of Sci. & Tech.	Zhang, Liang	Shandong Univ.	Fu, Zhumu	Henan Univ. of Sci. & Tech.	► MoA20-5	14:50–15:10	Ma, Jianwei	Henan Univ. of Sci. & Tech.	<i>Variable Step Size Rolling Optimization Strategy for CCHP System Considering Renewable Energy</i>		► MoA21-4	14:30–14:50	Pei, Menglu	Shandong Univ.	<i>Matrix Conditions of Language Recognition of Finite State Machines Using the Theory of Semi-tensor Product of Matrices</i>		Sun, Bo	Shandong Univ.	Yue, Jumei	Henan Univ. of Sci. & Tech.	► MoA20-6	15:10–15:30	Yan, Yongyi	Nankai Univ.	<i>Comprehensive Evaluation of Multi-energy Complementary Combined Cooling Heating and Power System Based on Analytic Hierarchy Process</i>		Li, Zhiqiang	Henan Univ. of Economics & Law	Li, Changji	Shandong Univ.	Jin, Xin	Henan Univ. of Sci. & Tech.	Li, Haoran	Shandong Univ.	Gao, Song	Henan Univ. of Sci. & Tech.	Sun, Bo	Shandong Univ.			► MoA20-7	15:30–15:50					► MoA21-5	14:50–15:10	<i>Minimum Node Control of Boolean Networks</i>		Pan, Jinfeng	Shandong Univ.			Feng, Jun-E	Shandong Univ.			Wang, Biao	Shandong Univ.			► MoA21-6	15:10–15:30	<i>Pinning Synchronization of Nonlinear Coupled Lur'e Networks under Hybrid Impulses</i>		<i>Pinning Synchronization of Nonlinear Coupled Lur'e Networks under Hybrid Impulses</i>				Wang, Yaqi	Southeast Univ.			Lu, Jianquan	Southeast Univ.					MoA22		MoA22	13:30–15:50	<i>Invited Session: Optimization and control of power systems with renewable sources</i>		Room 3411, Block 3				Organizer: Xiang, Ji	Zhejiang Univ.			Organizer: Zhai, Qiaozhu	Sys. Engineering Inst.			Chair: Xiang, Ji	Zhejiang Univ.			Co-Chair: Zhai, Qiaozhu	Sys. Engineering Inst.			► MoA22-1	13:30–13:50	<i>Solution Method for Long-term TCUC Considering Two Modes of Wind Power Curtailment</i>		<i>Solution Method for Long-term TCUC Considering Two Modes of Wind Power Curtailment</i>				Zhou, Yuzhou	Sys. Engineering Inst.			Zhai, Qiaozhu	Sys. Engineering Inst.			Huang, Ruanming	State Grid Shanghai Electric Economic & Tech. Research Inst.				
► MoA20-1	13:30–13:50	Organizer: Li, Haitao	Shandong Normal Univ.																																																																																																																																																																																																																		
<i>Electricity Price-based Microgrid Energy Management System in Grid-connected Mode</i>		Organizer: Lu, Jianquan	Southeast Univ.																																																																																																																																																																																																																		
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► MoA20-5	14:50–15:10	Ma, Jianwei	Henan Univ. of Sci. & Tech.																																																																																																																																																																																																																		
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Fei, Fei		State Grid Shanghai Electric Economic & Tech. Research Inst.	Ren, Shunqing	Harbin Inst. of Tech.
► MoA22-2		13:50–14:10	Fei, Zhongyang	Harbin Inst. of Tech.
<i>Frequency Consensus Control for Two-area Flexible DC Interconnected System</i>			► MoA23-4	14:30–14:50
Li, Pengfei		Tianjin Univ.	Distributed PI Control for Consensus of Multi-agent Systems with Time-delay under Directed Topology	
Li, Xialin		Tianjin Univ.	Wang, Qi	Nanjing Univ. of Sci. & Tech.
Guo, Li		Tianjin Univ.	Ma, Qian	Nanjing Univ. of Sci. & Tech.
Huang, Di		Tianjin Univ.	Zhou, Guopeng	Hubei Univ. of Sci. & Tech.
► MoA22-3		14:10–14:30	► MoA23-5	14:50–15:10
<i>Fast Algorithm for Multi-Period Locational Marginal Price</i>			Adaptive Task-Space Synchronization Control of SMMS Teleoperaiton Systems with Round-Robin Scheduling Protocol	
Zhou, Jingxuan		Xi'an Jiaotong Univ.	Li, Jing	Univ. of Sci. & Tech. Beijing
Zhai, Qiaozhu		Sys. Engineering Inst.	Li, Yuling	Univ. of Sci. & Tech. Beijing
Yang, Liu		Xi'an Jiaotong Univ.	Yin, Yixin	Univ. of Sci. & Tech. Beijing, China
Wu, Yuxiang		Xi'an Jiaotong Univ.	Liu, Kun	School of Automation, Beijing Inst. of Tech.
► MoA22-4		14:30–14:50	Zhang, Sen	Univ. of Sci. & Tech. Beijing
<i>Analysis and Control of Energy Storage Systems for Power System Stability Enhancement</i>			► MoA23-6	15:10–15:30
Tu, Ganggang		Department of Sys. Sci. & Engineering, College of Electrical Engineering, Zhejiang Univ., P. R. China	Wu, Nai-Long	Donghua Univ.
Li, Yanjun		Zhejiang Univ. City College	Tong, Jinjian	Donghua Univ.
Xiang, Ji		Zhejiang Univ.	Qi, Jie	Donghua Univ.
► MoA22-5		14:50–15:10	Wang, Meng	Shanghai Jiao Tong Univ.
<i>Source-storage Interaction Optimization and Scheduling Based on Centralized Control Virtual Power Plant</i>			► MoA23-7	15:30–15:50
Hu, Yu		Southeast Univ.	Li, Jiangrong	Yan'an Univ.
Gao, Shan		Southeast Univ.	Zhang, Changzhu	Tongji Univ.
Liu, Yu		Southeast Univ.	Shi, Juan	Victoria Univ.
► MoA22-6		15:10–15:30	► MoA24	13:30–15:30
<i>All-Scenario-Feasible Optimization Method for Coordinated Scheduling of Security Constrained Power Grids with Uncertain Renewable and Storable Energy Sources</i>			Room 3413, Block 3 Invited Session: Signal/Image Recognition Theory and Applications	
Shao, Zhentong		Xi'an Jiaotong Univ.	Organizer: Zhou, Zhiheng	South China Univ. of Tech.
Zhai, Qiaozhu		Sys. Engineering Inst.	Chair: Zhou, Zhiheng	South China Univ. of Tech.
Guan, Xiaohong		Xi'an Jiaotong Univ.	Co-Chair: Li, Bo	South China Univ. of Tech.
► MoA22-7		15:30–15:50	► MoA24-1	13:30–13:50
<i>Load Flow Optimization of Meshed Networks: A Convex Relaxation and An Illustrative Example</i>			Graph Regularized Domain Adaptation for Cross Domain Image Recognition	
Chen, Yuwei		Zhejiang Univ.	Huang, Junchu	South China Univ. of Tech.
Xiang, Ji		Zhejiang Univ.	Liu, Kaiyi	South China Univ. of Tech.
Li, Yanjun		Zhejiang Univ. City College	Zhou, Zhiheng	South China Univ. of Tech.
► MoA23	13:30–15:50	Room 3412, Block 3 Invited Session: Advances in Analysis And Synthesis of Time-delay Systems	Chen, Zengqun	South China Univ. of Tech.
Organizer: Feng, Zhiguang		Harbin Engineering Univ.	► MoA24-2	13:50–14:10
Organizer: Liu, Kun		School of Automation, Beijing Inst. of Tech.	A Universal Descent Model for Saliency Detection	
Organizer: Wang, Xin		Heilongjiang Univ.	Liu, Han	South China Univ. of Tech.
Chair: Feng, Zhiguang		Harbin Engineering Univ.	Li, Bo	South China Univ. of Tech.
Co-Chair: Liu, Kun		School of Automation, Beijing Inst. of Tech.	Zheng, Tao	South China Univ. of Tech.
► MoA23-1	13:30–13:50		Yao, Jiaxu	South China Univ. of Tech.
<i>Diving Control of Underactuated UUV Based on Backstepping Upper Bound Sliding Mode Method</i>			► MoA24-3	14:10–14:30
Yan, Zheping		Harbin Engineering Univ.	Liao, Minyu	South China Univ. of Tech.
Yang, Zewen		Harbin Engineering Univ.	Dong, Xiaofan	South China Univ. of Tech.
Zhang, Gengshi		Harbin Engineering Univ.	Chen, Jing	Huaqiao Univ.
Zhou, Jiajia		Harbin Engineering Univ.	Zeng, Delu	South China Univ. of Tech.
Pan, Xiaoli		Harbin Engineering Univ.	► MoA24-4	14:30–14:50
Yue, Lidong		Harbin Engineering Univ.	Local Statistical Active Contour Energy Functional Based on Cauchy-Schwarz Divergence for Image Segmentation	
► MoA23-2	13:50–14:10		Ye, Muchao	South China Univ. of Tech.
<i>Time-delay State Feedback Control for An Underactuated AUV with Model Uncertainty Constraints</i>			Dai, Ming	South China Univ. of Tech.
Zhou, Jiajia		Harbin Engineering Univ.	Zhou, Zhiheng	South China Univ. of Tech.
Zhao, Xinyi		Harbin Engineering Univ.	Zhao, Ruzheng	Tencent Tech. (Shenzhen) Co Ltd
Chen, Tao		Harbin Engineering Univ.	► MoA24-5	14:50–15:10
Yang, Zewen		Harbin Engineering Univ.	Learning Essential Region Mask in Spatial Dimension for Saliency Detection	
► MoA23-3	14:10–14:30		Yao, Jiaxu	South China Univ. of Tech.
<i>Stability Analysis for Discrete-Time Switched Systems with Time-Varying Delays</i>			Li, Bo	South China Univ. of Tech.
Shi, Shuang		Harbin Inst. of Tech.	Zheng, Tao	South China Univ. of Tech.
► MoA24-6	15:10–15:30		► MoA24-6	15:10–15:30
<i>Semi-NMF Network for Image Classification</i>			Huang, Haonan	Guangdong Univ. of Tech.

Yang, Zuyuan Liang, Naiyao Li, Zhenni	Guangdong Univ. of Tech. Guangdong Univ. of Tech. Guangdong Univ. of Tech.	Lu, Chengda Wu, Min	China Univ. of GeoSci. China Univ. of GeoSci.
MoA25 13:30–15:50	Room 3415, Block 3	► MoA26-4	14:30–14:50
Invited Session: Control and Applications of Stochastic Systems		<i>Design of Intelligent Drilling System Software Framework and Data Architecture Based on MVC Pattern</i>	
Organizer: Zhang, Huanshui Organizer: Wang, Bingchang Organizer: Xu, Juanjuan Chair: Wang, Bingchang Co-Chair: Xu, Juanjuan	Shandong Univ. Shandong Univ. Shandong Univ. Shandong Univ. Shandong Univ.	Ouyang, Peilun Cao, Weihua Wu, Min Gan, Chao Wang, Fawen	China Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci. Hubei Inst. of Urban Geological Engineering
► MoA25-1 13:30–13:50		► MoA26-5 14:50–15:10	
<i>Stackelberg Game Approach to Mixed H_2/H_∞ Problem: the Discrete-time Case</i>		<i>Intelligent Control System Design for Electric-drive Rig in Complex Geological Drilling Process</i>	
Li, Xiaoqian Wang, Wei Xu, Juanjuan Zhang, Huanshui	Shandong Univ. Shandong Univ. Shandong Univ. Shandong Univ.	Wu, Xiao Lai, Xuzhi Zhu, Jianglong Huang, Hongbo Chen, Luefeng Wu, Min Du, Sheng	China Univ. of GeoSci. China Univ. of GeoSci. China Geological Equipment Group Co., Ltd China Geological Equipment Group Co., Ltd China Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci.
► MoA25-2 13:50–14:10		► MoA26-6 15:10–15:30	
<i>Tracking Problem for Ito Stochastic System with Input Delay</i>		<i>Design of Networked Condition Monitoring System for Drilling Process</i>	
Jin, Nana Liu, Shuai Zhang, Huanshui	Shandong Univ. Shandong Univ. Shandong Univ.	Yang, Aoxue Zhang, Zheng Fan, Haipeng Chen, Luefeng Wu, Min	China Univ. of GeoSci. China Univ. of GeoSci. School of Automation, China Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci.
► MoA25-3 14:10–14:30		► MoA27 13:30–15:30	Room 3418, Block 3
<i>Exponential Mean Square Stabilization for Ito Stochastic Systems with Input Delay</i>		Invited Session: Infrared Spectra & Image based Process Measurement & Monitoring	
Xu, Juanjuan Zhang, Huanshui	Shandong Univ. Shandong Univ.	Organizer: Liu, Tao Organizer: Xu, Degang Organizer: Yang, Chunhua Chair: Liu, Tao Co-Chair: Xu, Degang	Dalian Univ. of Tech. Central South Univ. Central South Univ., China Dalian Univ. of Tech. Central South Univ.
► MoA25-4 14:30–14:50		► MoA27-1 13:30–13:50	
<i>Optimal State Estimation for Stochastic Systems with Measurement Delays and Auto-Correlated Noises</i>		<i>A Fast and Robust Visual Detection Method with Binary Template Matching for Glass Bottle Body</i>	
Luo, Xiaotian Wang, Wei Han, Chunyan	Shandong Univ. Shandong Univ. Univ. of Jinan	Zhou, Xianen Wang, Yaonan Zhu, Qing	Hunan Univ. Hunan Univ. Hunan Univ.
► MoA25-5 14:50–15:10		► MoA27-2 13:50–14:10	
<i>A Time-Inconsistent Dynamic Game</i>		<i>Particle Size Measurement Based on Quality Assessment of Crystal Images</i>	
Si, Binbin Ni, Yuan-Hua	Nankai Univ. Nankai Univ.	Yang, Yixuan Huo, Yan Chen, Suisui Liu, Tao	Dalian Univ. of Tech. Dalian Univ. of Tech. Dalian Univ. of Tech. Dalian Univ. of Tech.
► MoA25-6 15:10–15:30		► MoA27-3 14:10–14:30	
存在通信丢包线性系统的临界采样控制		<i>Situation Assessment Based Float Condition Stability Assessment</i>	
Wang, Chao Wang, Bingchang	Shandong Univ. Shandong Univ.	Xu, Degang Zhao, Tingting	Central South Univ. Central South Univ.
► MoA25-7 15:30–15:50		► MoA27-4 14:30–14:50	
<i>Discrete-time Linear Quadratic Mean-field Social Control</i>		<i>Ensemble Learning Based Multi-Color Space in Convolutional Neural Network</i>	
Ma, Xiao Wang, Bingchang Zhang, Huanshui	Shandong Univ. Shandong Univ. Shandong Univ.	Tan, Jiajie Li, Ning	Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.
MoA26 13:30–15:30	Room 3416, Block 3	► MoA27-5 14:50–15:10	
Invited Session: Intelligent Control of Drilling Process		<i>Image Based Measurement of Population Growth Rate for L-Glutamic Acid Crystallization</i>	
Organizer: Wu, Min Organizer: Cao, Weihua Organizer: Chen, Luefeng Chair: Chen, Luefeng	China Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci.	Chen, Suisui Liu, Tao Xu, Degang Huo, Yan Yang, Yixuan	Dalian Univ. of Tech. Dalian Univ. of Tech. Central South Univ. Dalian Univ. of Tech. Dalian Univ. of Tech.
► MoA26-1 13:30–13:50		DF2 15:50–17:50	Dongguan Hall, L2, Block 4
<i>Extended Dissipative Control for Drill-String Systems with Input Time-Varying Delays</i>		发展论坛2	
Lu, Chengda Wu, Min Chen, Luefeng Yang, Aoxue	China Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci.	Development Forum 2	
► MoA26-2 13:50–14:10		Chair: Deng, Feiqi	South China University of Technology, China
<i>Control System Design for Weight on Bit in Complex Geological Drilling Process</i>		► DF-2 15:50–17:50	
Ma, Sike Wu, Min Cheng, Jun Chen, Luefeng	China Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci.	随机系统与控制论坛	
► MoA26-3 14:10–14:30			
<i>Design of Deviation Correction Control System in Vertical Drilling Process</i>			
Zhang, Dian Chen, Luefeng	China Univ. of GeoSci. China Univ. of GeoSci.		

<i>Stochastic Systems and Control</i>				
Caraballo, Tomás	Universidad de Sevilla, Spain		Huang, Yixin	Shandong Univ.
Mao, Xuerong	University of Strathclyde, UK		Li, Hui	Shandong Univ.
Wang, Zidong	Brunel University, UK		Li, Fengzhong	Shandong Univ.
Zhang, Huanshui	Shandong University, China			17:30–17:50
Li, Chanying	Chinese Academy of Sciences			
MoB01	15:50–17:50	Room 3301, Block 3		
Regular Session: Stability and Stabilization				
Chair: Wu, Ai-Guo	Harbin Inst. of Tech. Shenzhen Graduate School			
Co-Chair: Zhang, Xuefeng	Northeastern Univ.			
► MoB01-1		15:50–16:10		
<i>Stabilization of Rectangular Descriptor Fractional Order Systems</i>				
Zhang, Xuefeng	Northeastern Univ.		Chen, Zhihua	Beijing Inst. of Tech.
Zhao, Zeli	Northeastern Univ.		Wang, Shou Kun	Beijing Inst. of Tech.
► MoB01-2		16:10–16:30	Xu, Kang	Beijing Inst. of Tech.
<i>Nonlinear Dynamics Analysis of Car-trailer Combinations Body Sway Considering Steering System Damping</i>			Wang, Junzheng	Beijing Inst. of Tech.
Li, Tian	Mechanical Engineering, Southeast Univ.		Zhao, Jiangbo	Beijing Inst. of Tech.
Zhang, Ning	Vehicle Engineering Lab		Niu, Shanshuai	Beijing Inst. of Tech.
Yin, Guodong	Southeast Univ.			
Ma, Jian	Southeast Univ.			
► MoB01-3		16:30–16:50		
<i>D-Admissibility Criteria of Singular Fractional Order Systems</i>				
Zhang, Xuefeng	Northeastern Univ.			
Zhang, Yingbo	Northeastern Univ.			
► MoB01-4		16:50–17:10		
<i>Event-triggering Control of Positive Systems Based on Linear Programming</i>				
Shao, Yu	Hangzhou Dianzi Univ.		Peng, Yi	Changsha Normal Univ.
Zhang, Junfeng	Hangzhou Dianzi Univ.		Qian, Hongchao	Central South Univ.
Liu, Laiyou	Hangzhou Dianzi Univ.		Wu, Jinbiao	Central South Univ.
Yang, Haoyue	Hangzhou Dianzi Univ.			
► MoB01-5		17:10–17:30		
<i>A Modified Predictive Scheme for Disturbances Attenuation of LTI Systems with Input Delay</i>				
Wang, Yu	Harbin Inst. of Tech. (Shenzhen)			
Wu, Ai-Guo	Harbin Inst. of Tech. Shenzhen Graduate School			
MoB02	15:50–17:50	Room 3302, Block 3		
Regular Session: Nonlinear Systems and Control (4)				
Chair: Ding, Zhengtao	Univ. of Manchester			
Co-Chair: Liu, Yungang	Shandong Univ.			
► MoB02-1		15:50–16:10		
<i>Methods for Constructing Lyapunov Functions for A Class of Nonlinear Systems</i>				
Zhang, Lanyong	Harbin Engineering Univ.			
Liu, Lei	Harbin Engineering Univ.			
Zhang, Lei	Harbin Engineering Univ.			
► MoB02-2		16:10–16:30		
<i>Discrete Control and Simulation of Zero-Vibration Hovering of Sling-Load Helicopter Using Six-Instant and Seven-Instant ZeaD Formulas</i>				
Zhang, Yunong	Sun Yat-sen Univ.		Xing, Shuangyun	Shenyang Jianzhu Univ.
Liu, Xiao	Sun Yat-sen Univ.		Deng, Feiqi	South China Univ. of Tech.
Guo, Jinjin	Sun Yat-sen Univ.		Zheng, Wei Xing	Western Sydney Univ.
Yin, Ziyu	Sun Yat-sen Univ.			
Hu, Haifeng	Sun Yat-sen Univ.			
► MoB02-3		16:30–16:50		
<i>Closed-loop Combustion Optimization Control with Applications to An Ultra-supercritical Coal-fired Boiler</i>				
Cao, Shuoshuo	Southeast Univ.			
Li, Yiguo	Southeast Univ.			
Wu, Xiao	Southeast Univ.			
Shen, Jiong	Southeast Univ.			
► MoB02-4		16:50–17:10		
<i>Iterative Learning Control for the Shank Part of Lower Limb Exoskeleton</i>				
Wang, Zhongyi	The Univ. of Manchester			
Ding, Zhengtao	Univ. of Manchester			
► MoB02-5		17:10–17:30		
<i>Event-triggered Position Tracking for Permanent Magnet Synchronous Motor</i>				
Li, Wenjuan	Shan Dong Univ.			
Liu, Yungang	Shandong Univ.			
MoB03	16:10–17:50	Room 3303, Block 3		
Regular Session: Stochastic Systems				
Chair: Peng, Yi				
Co-Chair: Zhang, Guhan				
► MoB03-1		16:10–16:30		
<i>Stochastic Stability of Semi-Markov Positive Linear Systems with Actuator Saturation</i>				
You, Lijie				
Hu, Zenghui				
Mu, Xiaowu				
► MoB03-2		16:30–16:50		
<i>Backward Stochastic Differential Equations on Markov Chains with Non-Lipschitz Coefficients</i>				
Peng, Yi				
Qian, Hongchao				
Wu, Jinbiao				
► MoB03-3		16:50–17:10		
<i>Research on Drag Reduction of Stratospheric Airship Based on Height Control</i>				
Zhang, Guhan				
Lin, Xianwu	School of Aerospace Engineering, Xiamen Univ.			
► MoB03-4		17:10–17:30		
<i>PID Control for High Dimensional Nonlinear Uncertain Stochastic Systems</i>				
Zhang, Jinke				
Guo, Lei				
► MoB03-5		17:30–17:50		
<i>Stability criteria for stochastic singular systems with time-varying delays and uncertain parameters (SCIS)</i>				
Xing, Shuangyun				
Deng, Feiqi				
Zheng, Wei Xing				
MoB04	15:50–18:10	Room 3305, Block 3		
Regular Session: Intelligent Robots (1)				
Chair: Li, Xiangyu				
Co-Chair: Liu, Yang				
► MoB04-1		15:50–16:10		
<i>Path Planning of the Dual-arm Robot Based on VT-RRT Algorithm</i>				
Li, Zhuang				
Ma, Hongbin				
Zhang, Xiaofei				
Fei, Qing				
► MoB04-2		16:10–16:30		
<i>Serial Elastic Actuators Torque Control Approach Based on Active Disturbance Rejection Control</i>				
Li, Xiangyu				
Xu, Bangjie				
Yao, Jin				
Tang, Qing				
► MoB04-3		16:30–16:50		
<i>State Estimate and Control for Multi-rotors UAV: Theory and Experimentation</i>				
Lu, Hanchen				
Tian, Bailing				
Han, Tianrui				
Zong, Qun				
Ma, Wenxin				
► MoB04-4		16:50–17:10		
<i>An Unsupervised Grasp Detection for Water-surface Object Collection</i>				

Kong, Shihan Chen, Xingyu Wu, Zhengxing Yu, Junzhi	Chinese Acad. of Sci. Inst. of Automation, Chinese Acad. of Sci. The Inst. of Automation, Chinese Acad. of Sci. Inst. of Automation, Chinese Acad. of Sci.	Zhao, Zihe Zhou, Rui	Beihang Univ. Beihang Univ.
► MoB04-5	17:10–17:30 <i>Design, Modeling and Simulation of A Novel Two-Wheeled Hopping Robot</i>	► MoB06-2	16:10–16:30 <i>A Fault-tolerant Data Fusion Method Based on Decentralized Kalman Filter for Redundant Sensor Configurations</i>
Zhang, Lufeng Ren, Xuemei Hu, Shuangyi Guo, Qing	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.	Hao, Wenkai Qi, Juntong Wu, Chong	Tianjin Univ. Tianjin Univ. EFY Intelligent Control
► MoB04-6	17:30–17:50 <i>Kinematics Modeling and Gait Trajectory Tracking for Lower Limb Exoskeleton Robot Based on PD Control with Gravity Compensation</i>	► MoB06-3	16:30–16:50 <i>Fault Estimation of Unmanned Helicopter Servo Based on Random Forest Algorithm</i>
Liu, Yang	Guangdong Univ. of Tech.	Wang, Fulin Qi, Juntong Wu, Chong	Tianjin Univ. Tianjin Univ. EFY Intelligent Control
► MoB04-7	17:50–18:10 <i>Robotic Fish Path Planning in Complex Environment</i>	► MoB06-4	16:50–17:10 <i>A Multi-model Fusion Method Based on 0-1 Programming and Its Application in Early Warning of Coal Mill Failure</i>
Hou, Ningning Wang, Hai Yu, Ming Chen, Long Cao, Zhenwei Zheng, Jinchuan Man, Zhihong	Hefei University of Tech. Murdoch Univ. Hefei Univ. of Tech. Hangzhou Dianzi Univ. Swinburne Univ. of Tech. Swinburne Univ. of Tech., Australia -	Yang, Liu Zhai, Qiaozhu Wu, Yuxiang	Xi'an Jiaotong Univ. Sys. Engineering Inst. Xi'an Jiaotong Univ.
MoB05	15:50–17:50	► MoB06-5	17:10–17:30 <i>Decentralized Observer Design for Heterogeneous Multi-agent Systems with Fault Bound Estimation</i>
Regular Session: Fuzzy System and Fuzzy Control	Room 3306, Block 3	Liu, Chun Jiang, Bin Zhang, Ke	Nanjing Univ. of Aeronautics & Astronautics Nanjing Univ. of Aeronautics & Astronautics Nanjing Univ. of Aeronautics & Astronautics
Chair: Yu, Guangliang Co-Chair: Chen, Zhi	Beijing Inst. of Control Engineering Shanghai Univ.	► MoB06-6	17:30–17:50 <i>Aero-Engine Remaining Useful Life Estimation Based on 1-Dimensional FCN-LSTM Neural Networks</i>
► MoB05-1	15:50–16:10 <i>Variable Gains Control for Unmanned Helicopter Trajectory Tracking</i>	Zhang, Wei Jin, Feng Zhang, Guigang Zhao, Baicheng Hou, Yuqinq	Beijing Inst. of Tech. Beijing Inst. of Tech. Chinese Acad. of Sci. Beijing Inst. of Tech. Beijing Inst. of Tech.
Chen, Zhi Tu, Xiaowei Fu, Jian Xing, Li	Shanghai Univ. Shanghai Univ. Nanjing Univ. of Sci. & Tech. Shanghai Univ.	► MoB06-7	17:50–18:10 <i>Convolutional Neural Network for Fault Diagnosis of High-Speed Train Bogie</i>
► MoB05-2	16:10–16:30 <i>H_∞ Synchronization of Nonlinear Systems Based on Polynomial Fuzzy Model</i>	Huang, Changhe Qin, Na Huang, Deqing Liang, Kaiwei	Southwest Jiaotong Univ. Southwest Jiaotong Univ. Southwest Jiaotong Univ. Southwest Jiaotong Univ., School of Electrical Engineering
Yu, Jiafeng Wang, Jian Xing, Wen Han, Chunsong Li, Qingsheng	Harbin Inst. of Tech. Bohai Univ. Harbin Engineering Univ. Qiqihar Univ. Shanghai Univ.	MoB07	15:50–17:50 <i>Room 3308, Block 3</i>
► MoB05-3	16:30–16:50 <i>A Novel Adaptive Fuzzy Prescribed Performance Backstepping Design for A Larger Class of Nonlinear Dynamic Systems</i>	Regular Session: Signal Processing and Information Fusion (4)	► MoB07-1
Wang, Ning Wang, Ying Wang, Xiaolin Zhang, Fan Qi, Yao Liu, Zongcheng Zhang, Jialong	Air Force Engineering Univ. Air Force Engineering Univ. Air Force Engineering Univ. Sun Yat-sen Univ. Air Force Engineering Univ. Air Force Engineering Univ. Northwestern Polytechnical Univ.	Chair: Zhang, Senlin Co-Chair: Bai, Huang	15:50–16:10 <i>Active Sensor Radiation Control Based on Posterior Cramer-Rao Lower Bound with Passive Measurement</i>
► MoB05-4	16:50–17:10 <i>A Fuzzy Comprehensive Evaluation Method for Spacecraft Control Systems under Different Scheduling Strategies</i>	Huai, Tianyi Liu, Meiqin Zhang, Senlin He, Yan	Zhejiang Univ. Zhejiang Univ. Zhejiang Univ. Zhejiang Univ.
Yu, Guangliang Guan, Xin Yang, Mengfei	Beijing Inst. of Control Engineering Bice China Acad. of Space Tech.	► MoB07-2	16:10–16:30 <i>A Hybrid Contrast Limited Adaptive Histogram Equalization (CLAHE) for Parathyroid Ultrasonic Image Enhancement</i>
► MoB05-5	17:10–17:30 <i>H_-/L_∞ Fault Detection Observer Design for Uncertain Takagi-Sugeno Fuzzy Systems</i>	Zheng, Ruizhi Guo, Qing Gao, Chang Yu, Ming-An	Zhejiang Univ. Beijing Univ. of Chemical Tech. Beijing Univ. of Chemical Tech. China-Japan Friendship Hospital
Wang, Zhenrong Li, Jitao Shen, Yi	Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech.	► MoB07-3	16:30–16:50 <i>Constructing Preconditioner Based on Tight Frame for Bernoulli Random Sensing Matrix in Compressed Sensing</i>
MoB06	15:50–18:10	Zhang, Jiasheng Liu, Yue Wang, Yongxin Zhu, Rong Liu, Zixin Bai, Huang	Hangzhou Normal Univ. Hangzhou Normal Univ. Hangzhou Normal Univ. Hangzhou Normal Univ. Hangzhou Normal Univ. Hangzhou Normal Univ.
Regular Session: Fault Diagnosis and Reliable Control (1)	Room 3307, Block 3	► MoB07-4	16:50–17:10 <i>A Statistical CSI Model for Indoor Positioning Using Fingerprinting</i>
Chair: Qin, Na Co-Chair: Zhao, Zihe	Southwest Jiaotong Univ. Beihang Univ.		
► MoB06-1	15:50–16:10 <i>Aero-Engine Faults Diagnosis Based on K-Means Improved Wasserstein GAN and Relevant Vector Machine</i>		

Wang, Wengu	Guangdong Univ. of Tech.	Chen, Ying	Jiangnan Univ.
Marelli, Damian	Guangdong Univ. of Tech.		16:30–16:50
Fu, Minyue	The Univ. of Newcastle		
► MoB07-5	17:10–17:30		
<i>Iterative Reweighted Minimax Phase Error Design of IIR Digital Filters Based on A Modified Constraint Model</i>		<i>A Robust and Efficient Pedestrian Detection Approach for Autonomous Driving</i>	
Yi, Huoping	Hangzhou Dianzi Univ.	Wang, Yijing	Tianjin Univ.
Meng, Hailong	Hangzhou Dianzi Univ.	Zheng, Kaifu	Tianjin Univ.
Lai, Xiaoping	Hangzhou Dianzi Univ.	Zuo, Zhiqiang	Tianjin Univ.
► MoB08	15:50–18:10	Zhang, Zhicheng	Tianjin Univ.
Regular Session: Navigation and Guidance (4)		► MoB09-4	16:50–17:10
Chair: Li, Yong	China Acad. of Space Thecnology	<i>A Novel Retinal Vessel Segmentation Method Using Connected Domain Merging and Improved Graph Cut</i>	
Co-Chair: Zhou, Xinghe	Beihang Univ.	Shao, Zejian	Northeastern Univ.
► MoB08-1	15:50–16:10	Gong, Jun	Northeastern Univ.
<i>A Parallel Modified Unscented Kalman Filter for Autonomous Navigation Based on Relative Position Measurements of DSS</i>		► MoB09-5	17:10–17:30
Li, Yong	China Acad. of Space Thecnology	<i>UGV Direction Control by Human Arm Gesture Recognition via Deterministic Learning</i>	
Zhang, Ai	China Acad. of Space Tech.	Chen, Xiaotian	Univ. of Rhode Island
► MoB08-2	16:10–16:30	Dong, Xiaonan	Univ. of Rhode Island
<i>Design of Extra-Atmospheric Vehicle Control System for Maneuvering Target</i>		Zeng, Wei	Longyan Univ.
Liu, Peng	The State Key Laboratory of Experimental Physics & Computational Mathematic	Yuan, Chengzhi	Univ. of Rhode Island
Si, Hongjuan	Beijing Inst. of Space Long March Vehicle	Stegagno, Paolo	Univ. of Rhode Island
Qin, Xuguo	Beijing Inst. of Space Long March Vehicle	► MoB09-6	17:30–17:50
Liu, Xin	The State Key Laboratory of Experimental Physics & Computational Mathematic	<i>Research on Lane Detection Method with Shadow Interference</i>	
Liu, Jiaqi	The State Key Laboratory of Experimental Physics & Computational Mathematic	Liu, Wanjia	Northeastern Univ.
► MoB08-3	16:30–16:50	Gong, Jun	Northeastern Univ.
<i>A Novel Guidance Law Using Integral Terminal Sliding Mode with Impact Angle Constraint</i>		Ma, Botan	Northeastern Univ.
Zhou, Xinghe	Beihang Univ.	► MoB09-7	17:50–18:10
Wang, Weihong	Beihang Univ.	<i>An Automatic Detection Method of Mura Defects for Liquid Crystal Display</i>	
Lai, Chao	China North Industries Group Corporation	Ma, Zhongqiang	Northeastern Univ.
► MoB08-4	16:50–17:10	Gong, Jun	Northeastern Univ.
<i>Analytical Impact Time Guidance Law with Reduced Filed-of-View Limit</i>		► MoB10	15:50–17:50
Zhong, Kewei	Shanghai Inst. of Spaceflight Control Tech.	Room 3312, Block 3 Regular Session: Control of Network Systems and Networked Control Systems (3)	
Han, Tuo	Beihang Univ.	Chair: Zhou, Tong	Tsinghua Univ.
Hu, Qinglei	Beihang Univ.	Co-Chair: Zhang, Liguo	Beijing Univ. of Tech.
Xi, Yong	Shanghai Aerospace Control Tech. Inst.	► MoB10-1	15:50–16:10
► MoB08-5	17:10–17:30	<i>Structure Based Verification for the Controllability/Observability/Stability of A Networked System</i>	
<i>A Multi - Platform Cooperative Localization Method Based on Dead Reckoning and Particle Filtering</i>		Zhou, Tong	Tsinghua Univ.
Han, Yongqiang	Beijing Inst. of Tech.	► MoB10-2	16:10–16:30
Wei, Chenchen	Beijing Inst. of Tech.	<i>PI Boundary Feedback Control for Freeway Traffic Networks</i>	
Lu, Tongchun	Beijing Inst. of Tech.	Zhang, Liguo	Beijing Univ. of Tech.
Wang, Ruirong	Beijing Inst. of Tech.	Wang, Kang	Beijing Univ. of Tech.
► MoB08-6	17:30–17:50	► MoB10-3	16:30–16:50
<i>Autonomous Orbit Determination for Two Spacecraft with Measurement Conversion</i>		<i>Upper Bound of the Minimum Energy Cost for Controlling Complex Networks</i>	
Zhou, Bochao	China Acad. of Space Tech.	Duan, Gaopeng	Peking Univ.
Li, Yong	China Acad. of Space Thecnology	Li, Aming	Peking Univ.
► MoB08-7	17:50–18:10	Meng, Tao	Peking Univ.
<i>UAV Online Path Planning Based on Improved Genetic Algorithm</i>		Zhang, Guofeng	The Hong Kong Polytechnic Univ.
Wang, Xiaohai	Beijing Inst. of Tech.	Wang, Long	Peking Univ.
Meng, Xiuyun	Beijing Inst. of Tech.	► MoB10-4	16:50–17:10
► MoB09	15:50–18:10	<i>Stability Analysis of Networked Control Systems with Multi-parameter Constraints</i>	
Regular Session: Pattern Recognition (1)		Qiao, Siwei	Hubei Narmal Univ.
Chair: Zhang, Yong-Mei	North China Univ. of Tech.	Xu, Xiaolin	Hubei Normal Univ.
Co-Chair: Yuan, Chengzhi	Univ. of Rhode Island	Wu, Jie	Hubei Normal Univ.
► MoB09-1	15:50–16:10	Wang, Lingyan	Hubei Normal Univ.
<i>An Effective Urban Road Identification Method</i>		Zhan, Xisheng	Hubei Normal Univ.
Zhang, Yong-Mei	North China Univ. of Tech.	► MoB10-5	17:10–17:30
Sun, Haiyan	North China Univ. of Tech.	<i>Trajectory Tracking Control for Mobile Robots with Abnormal Data and External Disturbances</i>	
Du, Zhirong	North China Univ. of Tech.	Qin, Dongdong	Zhejiang Univ. of Tech.
Xu, Min	North China Univ. of Tech.	Liu, Andong	Zhejiang Univ. of Tech.
Zhao, Jiarui	North China Univ. of Tech.	Teng, You	Zhejiang Univ. of Tech.
► MoB09-2	16:10–16:30	Qiu, Xiang	Zhejiang Univ. of Tech.
<i>Object Tracking Based on Spatial Attention Mechanism</i>		Yan, Huaicheng	East China Univ. of Sci. & Tech.
Xie, Yu	Jiangnan Univ.	► MoB10-6	17:30–17:50
		<i>Industry Trusted Network Communication Based on Quantum Encryption</i>	

Yang, Wen Yao, Pei-Song Zhao, Qianchuan	Tsinghua Univ. China Xichang Satelit Launch Center Tsinghua Univ.		16:10–16:30
MoB11 15:50–17:50 Room 3313, Block 3	Regular Session: Multi-Agent Systems and Distributed Control (4)		
Chair: Li, Qinsheng Co-Chair: Ma, Chao	Shanghai Univ. Univ. of Sci. & Tech. Beijing		
► MoB11-1 15:50–16:10	<i>Event-Triggered Cooperative Formation Control for Multi-Agent System with Dynamic Role Assignment</i>		
Wu, Shuang Xia, Yuanqing Luo, Yu Lin, Min	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.		Dalian Univ. of Tech. Dalian Univ. of Tech. Dalian Univ. of Tech. Dalian Univ. of Tech.
► MoB11-2 16:10–16:30	<i>A Behavior Control Scheme for Multi-Robot Systems under Human Intervention</i>		
Huang, Jie Wu, Wenhua Ning, Yingyin Zhou, Ning Xu, Zhezhuang	Fuzhou Univ. Fuzhou Univ. Fujian Institue of Education Fujian Agriculture & Forestry Univ. Fuzhou Univ.		Beijing Jiaotong Univ. Beijing Jiaotong Univ. Beijing Jiaotong Univ. Beijing Jiaotong Univ.
► MoB11-3 16:30–16:50	<i>Distributed Containment Control of Fractional-order Multi-agent Systems Based on Projection Algorithm</i>		
Yuan, Xiaolin Mo, Lipo Yu, Yongguang Liu, Xiaodong	Beijing Tech. & Business Univ. Beijing Tech. & Business Univ. Beijing Jiaotong University Beijing Tech. & Business Univ.		Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ.
► MoB11-4 16:50–17:10	<i>Distributed Trajectory Optimization Method for Multi-UAV Formation Rendezvous over Directed Networks</i>		
Han, Dongyu Ma, Aoyun Zhang, Yongpo Liu, Kun Xia, Yuanqing	Beijing Inst. of Tech. Beijing Inst. of Tech. Aviation Univ. of Air Force School of Automation, Beijing Inst. of Tech. Beijing Inst. of Tech.		Southwest Jiaotong Univ. Southwest Jiaotong Univ. Southwest Jiaotong Univ. Southwest Jiaotong Univ.
► MoB11-5 17:10–17:30	<i>Distributed Consensus of Markov Jump Multi-agent Systems with Asynchronous Mode-dependent Switching Topology and Communication Delays</i>		
Ma, Chao Jia, Lihao	Univ. of Sci. & Tech. Beijing Inst. of Automation, Chinese Acad. of Sci.		China Acad. of Railway Sci. China Acad. of Railway Sci.
► MoB11-6 17:30–17:50	<i>H Consensus of Nonlinear Multi-agent Systems OnUndirected Topology Based on Polynomial Fuzzy Model</i>		
Yu, Jiafeng Wang, Jian Xing, Wen Han, Chunsong Li, Qinsheng	Harbin Inst. of Tech. Bohai Univ. Harbin Engineering Univ. Qiqihar Univ. Shanghai Univ.		Xi'an Jiaotong Univ. China Acad. of Railway Sci.
► MoB11-7 17:50–18:10	<i>基于二值递推投影算法的切换多个体系统同步</i>		
<i>Consensus of Switching Multi-Agent Systems under Binary-Valued</i>			
Hu, Min Wang, Ting Xue, Wenchoa Zhao, Yanlong	Chinese Acad. of Sci. Chinese Acad. of Sci. Chinese Acad. of Sci. Chinese Acad. of Sci.		
MoB12 15:50–17:50 Room 3315, Block 3	Regular Session: Vehicle Control and Transportation Systems (4)		
Chair: Huang, Deqing Co-Chair: Zhang, Chunjia	Southwest Jiaotong Univ. China Acad. of Railway Sci.		
► MoB12-1 15:50–16:10	<i>Real-Time Lane Detection and Tracking for Advanced Driver Assistance Systems</i>		
Bilal, Hazrat Yin, Baoqun Khan, Jawad Wang, Luyang Zhang, Jing Kumar, Aakash	Univ. of Sci. & Tech. of China Univ. of Sci. & Tech. of China Nanjing Normal Univ. Univ. of Sci. & Tech. of China USTC Information Sci. & Tech.		Beihang Univ. Beihang Univ.
► MoB12-2 16:10–16:30	<i>Control Strategy of Mechatronic Inerter Based OnPermanent Magnet Synchronous Motor</i>		
Chen, Fangliang Zhang, Yu Guo, Yuanbo Zhang, Xiaohua			
► MoB12-3 16:30–16:50	<i>Real-time Adjustment and Optimization for Platoon Operation of High-speed Trains</i>		
Liu, Jun-Nan Shangguan, Wei Cai, Bai-Gen Sheng, Zhao			
► MoB12-4 16:50–17:10	<i>Specialized Car Detector for Autonomous Driving</i>		
Wang, Yijing Sun, Wentao Zuo, Zhiqiang			
► MoB12-5 17:10–17:30	<i>Iterative Learning Operation Control of High-Speed Trains with Adhesion Dynamics</i>		
Yang, Wanqiu Huang, Deqing Huang, Tengfei Qin, Na			
► MoB12-6 17:30–17:50	<i>The Intelligent Brain of the Passenger Station for China Railway High-Speed (CRH)</i>		
Zhang, Chunjia Shi, Tianyun Yang, Jian Dong Lv, Xiaojun			
MoB13 15:50–17:50 Room 3401, Block 3	Regular Session: Aircraft Control (4)		
Chair: Shan, Shangqiu Co-Chair: Li, Wei			
► MoB13-1 15:50–16:10	<i>A Feedback Linearization and Saturated Control Structure for Quadrotor UAV</i>		
Jiang, Hongru Xia, Yuanqing Hu, Rui Ma, Dailiang Hao, Chenxi			
► MoB13-2 16:10–16:30	<i>Attitude Tracking LPV Control for Spacecraft with Hybrid Actuators</i>		
Lei, Bingyao Shi, Peng Zhang, Hao			
Zhao, Yu-Shan	Tech. & Engineering Center for Space Utilization, Chinese Acad. of Sci.		
► MoB13-3 16:30–16:50	<i>Bifurcation of Dynamic Soaring at Horizontal Wind Gradient</i>		
Shan, Shangqiu Wang, Senlin Sun, Renwu Hou, Kun			
► MoB13-4 16:50–17:10	<i>Study on Evolution Analysis and Maintenance Technology of Co-location Configuration of Geostationary Satellites</i>		
Xin, Ning Li, Wei			
► MoB13-5 17:10–17:30	<i>Research and Experiment on Dynamic Weight Pseudo-Inverse Control Allocation for Spacecraft Attitude Control System</i>		
Yang, Haoyang Hu, Qinglei			
► MoB13-6 17:30–17:50	<i>Model Predictive Control for Spacecraft Attitude Maneuver under Actuators Power Limitation</i>		

Zhang, Xinxin Liu, Mingmin Hu, Qinglei	Beihang Univ. Shanghai Aerospace Control Tech. Inst. Beihang Univ.	Zeng, Jun	South China Univ. of Tech.
MoB14 15:50–18:10	Room 3402, Block 3	► MoB15-4 16:50–17:10	<i>Solar PV Array Reconfiguration under Partial Shading Conditions Using Optimal Control</i>
Regular Session: Neural Networks and Deep Learning (4)		Peng, Yunjian Zheng, Shuai Sun, Weijie	South China Univ. of Tech. South China Univ. of Tech. South China Univ. of Tech.
Chair: Zhu, Jinlin Co-Chair: Bai, Zhengyao	Zhejiang Univ. Yunnan Univ.	► MoB15-5 17:10–17:30	<i>Phase Oscillator Model for De-synchronization of Thermostatically Controlled Loads</i>
► MoB14-1 15:50–16:10		Bajaria, Pratik	VEERMATA JIJABAI TECHNOLOGICAL Inst.
<i>Generative Model with Stochastic Activation Neurons</i> Ming, Yang Acad. of Mathematics & Sys. Sci., Chinese Acad. of Sci.		► MoB15-6 17:30–17:50	<i>One New Distributed Low-Power and High-Precision Fault Recording System Based on STM32L4+</i>
Wang, Xi Hong, Yiguang	Acad. of Math & Sys. Sci. Chinese Acad. of Sci.	Liu, Fuchun Yang, Dehua He, Yun Zou, Lin Yuan, Yao	South China Univ. of Tech. South China Univ. of Tech. South China Univ. of Tech. Southern Grid Sci. Research Inst. Inst. of Power Electrical Center, China Southern Grid
► MoB14-2 16:10–16:30		Liu, Huanrui	Electric Power Research Inst., CSG
基于路由结构残差网络的医学图像超分辨率重建 <i>Super-resolution Reconstruction of Medical Images Based on Routing Structural Residual Network</i>		► MoB15-7 17:50–18:10	<i>Coordinated Energy Scheduling for Autonomous Microgrids Based on Multi-layer Control Architecture</i>
Bai, Zhengyao Tao, Jinyu Li, Qiong	Yunnan Univ. Yunnan Univ. Yunnan Univ.	Du, Yigao Wu, Jing Li, Shaoyuan Long, Chengnian	Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.
► MoB14-3 16:30–16:50		MoB16 15:50–17:50	Room 3405, Block 3
<i>Effective Use of Low-level Features for Image Super-Resolution</i> Li, Jie South China Univ. of Tech. Yang, Junmei South China Univ. of Tech.		Invited Session: New advances on the theory and application of multi-agent systems	
► MoB14-4 16:50–17:10		Organizer: Wu, Junfeng Organizer: Zhao, Shiyu Chair: Wu, Junfeng Co-Chair: Qin, Jiahua	KTH,Royal Inst. of Tech. Univ. of Sheffield KTH,Royal Inst. of Tech. Univ. of Sci. & Tech. of China
<i>Deep Visual Detection-Tracker for Aerial Targets</i> Wei, Mei Army Engineering Univ.		► MoB16-1 15:50–16:10	<i>Off-Policy Reinforcement Learning for Synchronization of Linear Systems with Input Saturation</i>
► MoB14-5 17:10–17:30		Li, Man Qin, Jiahua	Univ. of Sci. & Tech. of China Univ. of Sci. & Tech. of China
<i>Defense Against Adversarial Vision Perturbations via Subspace Diagnosis</i> Zhu, Jinlin Zhejiang Univ. Peng, Guohao EEE, Nanyang Technological Univ., Singapore Fu, Wenhao Nanyang Technological Univ. Wang, Danwei Nanyang Technological Univ.		► MoB16-2 16:10–16:30	<i>Distributed Online Convex Optimization with Long Term Coupled Constraints</i>
► MoB14-6 17:30–17:50		Yi, Xinlei Yang, Tao Wu, Junfeng Johansson, Karl Henrik	KTH Royal Inst. of Tech. Univ. of North Texas KTH,Royal Inst. of Tech. Royal Inst. of Tech.
<i>A Fusion Framework Using Integrated Neural Network Model for Non-Intrusive Load Monitoring</i> Li, Cunlong Zhejiang Univ. Zheng, Ronghao Zhejiang Univ. Liu, Meiqin Zhejiang Univ. Zhang, Senlin Zhejiang Univ.		► MoB16-3 16:30–16:50	<i>Distributed Adaptive Observer for Discrete-Time LTI SISO System with Completely Unknown Periodic Input</i>
► MoB14-7 17:50–18:10		Wen, Yaoyao Chen, Donghua Zhang, Ya	Southeast Univ. Nanjing Inst. of Tech. Southeast Univ.
<i>Restore the Incomplete Calligraphy Based on Style Transfer</i> Qin, Mengxi China Univ. of GeoSci. Chen, Xin China Univ. of GeoSci.		► MoB16-4 16:50–17:10	<i>Event-triggered Minimax State Estimation for Uncertain Systems Subject to A Relative Entropy Constraint</i>
MoB15 15:50–18:10	Room 3403, Block 3	Xu, Jiapeng Tang, Yang Li, Fangfei	Hangzhou Dianzi Univ. East China Univ. of Sci. & Tech. East China Univ. of Sci. & Tech.
Regular Session: Smart Grid		► MoB16-5 17:10–17:30	<i>Sliding Mode Variable Structure Control Combining with Disturbance Observer for Mobile Vehicle</i>
Chair: Wu, Jing Shanghai Jiao Tong Univ. Co-Chair: Guo, Jian Harbin Engineering Univ.		Wang, Jianmei Li, Mengjie Fan, Yanyan Yan, Jing Luo, Xiaoyuan	Yanshan Univ. Yanshan Univ. Yanshan Univ. Yanshan Univ. Yanshan Univ.
► MoB15-1 15:50–16:10		► MoB16-6 17:30–17:50	<i>Density-based Pattern Control for Spacecraft Swarms Around Circular Orbits</i>
<i>Current Sharing Approach for DC Microgrid Based on Superimposed Frequency Droop Control</i> Zhang, Qinjin Dalian Maritime Univ. Zhuang, Xuzhou Dalian Maritime Univ. Liu, Yan-Cheng Dalian Maritime Univ. Guo, Hongzhi Dalian Maritime Univ.		Yang, Chihang	Chinese Acad. of Sci.
► MoB15-2 16:10–16:30			
<i>Improved Park Inverse Transform Algorithm for Positive and Negative Sequence Separation of Grid Voltage under Unbalanced Grid Conditions</i> Guo, Jian Harbin Engineering Univ. Ren, Ke Harbin Engineering Univ. Yang, Xiaobo Harbin Engineering Univ. Si, Jiawen Harbin Engineering Univ. Yue, Pengfei Harbin Engineering Univ. Khan, Roaidar Harbin Engineering Univ.			
► MoB15-3 16:30–16:50			
<i>Energy Optimization for Multi-microgrid System Using Two-layer Model</i> Huang, Qianying South China Univ. of Tech. Liu, Junfeng South China Univ. of Tech. Hu, Jiajian South China Univ. of Tech.			

Zhang, Hao	Tech. & Engineering Center for Space Utilization, Chinese Acad. of Sci.		Sun, Haiyi	Shenyang JianZhu Univ.
MoB17	15:50–17:50	Room 3406, Block 3	Li, Ning	Northeastern Univ.
Invited Session: Advances in Control and Optimization of Networked Systems			Chen, Zhongtang	Shenyang JianZhu Univ.
Organizer: Hao, Yuqing	Peking Univ.	Jia, Xing	Shenyang JianZhu Univ.	
Organizer: Duan, Zhisheng	Peking Univ.			
Chair: Hao, Yuqing	Peking Univ.			
Co-Chair: Duan, Zhisheng	Peking Univ.			
► MoB17-1	15:50–16:10		► MoB18-5	17:10–17:30
<i>Event-based Distributed Estimation for Uncertain Discrete Linear Systems: Design and Analysis</i>			<i>Distributed Group Consensus of A Class of Networked Heterogeneous Multi-Agent System</i>	
Duan, Peihu	Peking Univ.	Lian, Deheng	Beijing Jiaotong Univ.	
Duan, Zhisheng	Peking Univ.	Wen, Guoguang	Beijing Jiaotong Univ.	
► MoB17-2	16:10–16:30	Peng, Zhaoxia	Beihang Univ.	
<i>Event-Based Fully Distributed Containment Control for Multiple Euler-Lagrange Systems over Directed Communication Topologies</i>				
Xu, Tao	Peking Univ.	► MoB18-6	17:30–17:50	
Duan, Zhisheng	Peking Univ.	<i>Sampled-Data Control for Synchronization of Space-Varying Reaction-Diffusion Neural Networks</i>		
► MoB17-3	16:30–16:50	Wang, Zi-Peng	Univ. of Jinan	
<i>On the Controllability of Corona Product Network</i>		Wu, Huai-Ning	Beijing Univ. of Aeronautics & Astronautics	
Wang, Xiaomin	Beihang Univ.	Wang, Xiaohong	Univ. of Jinan	
Hao, Yuqing	Peking Univ.	Wang, Luhao	Univ. of Jinan	
Wang, Qingyun	Beihang Univ.	► MoB18-7	17:50–18:10	
► MoB17-4	16:50–17:10	<i>A Novel Shape Detection Method for Continuum Soft Manipulator Based on Cable Encoders</i>		
<i>Distributed Robust Mean Square Estimation over Markov Switching Networks</i>		Zou, Shuangquan	Harbin Inst. of Tech.	
Liu, Kexin	Beihang Univ.	Lv, Yueyong	Harbin Inst. of Tech.	
Lu, Jinhua	Chinese Acad. of Sci.	Zhao, Liqun	Harbin Inst. of Tech.	
► MoB17-5	17:10–17:30	Yan, Hao	Northeastern Univ.	
<i>Consensus of Second-order Multi-agent Systems with Both Velocity and Input Constraints</i>		Huang, Xianlin	Harbin Inst. of Tech.	
Fu, Junjie	Peking Univ.	► MoB19	15:50–18:10	
Wen, Guanghui	Southeast Univ.	Invited Session: Intelligent Controls, Diagnosis and Health Management of Aero-engines (2)	Room 3408, Block 3	
Yu, Wenwu	Southeast Univ.	Organizer: Sun, Xi-Ming	Dalian Univ. of Tech.	
Huang, Tingwen	Texas A&M Univ.	Organizer: Zhang, Haibo	Nanjing Univ. of Aeronautics & Astronautics	
Yu, Xinghuo	RMIT Univ.	Organizer: Du, Xian	Dalian Univ. of Tech.	
► MoB17-6	17:30–17:50	Chair: Du, Xian	Dalian Univ. of Tech.	
<i>Model-free Neural-Network-Based Control for A 6-DOF Uncertain Robot Manipulator</i>		Co-Chair: Sun, Xi-Ming	Dalian Univ. of Tech.	
Lv, Guannan	Peking Univ.	► MoB19-1	15:50–16:10	
Duan, Zhisheng	Peking Univ.	<i>An Adaptive Optimal Control Algorithm for Jet Pipe Electro-hydraulic Servo Valve</i>		
► MoB18	15:50–18:10	Liu, Xiaochuang	Dalian Univ. of Tech.	
Invited Session: Analysis, Control and Applications of Complex Network Systems (3)	Room 3407, Block 3	Wang, Rui	Dalian Universitu of Tech.	
Organizer: Wang, Jin-Liang	BUAA	Sun, Tao	Dalian Univ. of Tech.	
Organizer: Wu, Huai-Ning	Beijing Univ. of Aeronautics & Astronautics	Du, Xian	Dalian Univ. of Tech.	
Organizer: Chen, Wu-Hua	Guangxi Univ.	► MoB19-2	16:10–16:30	
Chair: Hu, Jiangping	Univ. of Electronic Sci. & Tech. of China	<i>Research on Variable Cycle Engine Modeling Technology</i>		
Co-Chair: Liang, Jinling	Southeast Univ.	Gou, Linfeng	Northwestern Poly Technique Univ.	
► MoB18-1	15:50–16:10	Zhao, Chenyang	Northwestern Poly-Technical Univ.	
<i>Consensus of Linear Multi-Agent Systems by Distributed Event-Triggered Control with Functional Observers</i>		Zhou, Zihan	Northwestern Polytechnical Univ.	
Jian, Long	Univ. of Electronic Sci. & Tech. of China	Ma, Xinyue	Northwestern Polytechnical Univ.	
Hu, Jiangping	Univ. of Electronic Sci. & Tech. of China	Shen, Yawen	Northwestern Poly-Technical Univ.	
Shi, Kaibo	Univ. of Electronic Sci. & Tech. of China	► MoB19-3	16:30–16:50	
► MoB18-2	16:10–16:30	<i>Design of Gain-Scheduling Robust Controller for Aircraft Engine</i>		
<i>Robust Synchronization of Complex-Valued Neural Networks with Probabilistic Delay</i>		Liu, Zhidan	Northwestern Poly-Technical Univ.	
Li, Qiang	Southeast Univ.	Gou, Linfeng	Northwestern Poly Technique Univ.	
Liang, Jinling	Southeast Univ.	Fan, Ding	Northwestern Polytechnical Univ.	
► MoB18-3	16:30–16:50	Zhou, Zihan	Northwestern Polytechnical Univ.	
<i>Further Improved Results on Sampled-data Synchronization Control For delayed Complex Networks with Stochastic Cyber Attacks</i>		► MoB19-4	16:50–17:10	
Wang, Jun	Southwest Univ.	<i>Improved AIUKF Based Aeroengine Component Deterioration Analysis</i>		
Shi, Kaibo	Univ. of Electronic Sci. & Tech. of China	Gou, Linfeng	Northwestern Poly Technique Univ.	
Zhong, Shouming	Univ. of Electronic Sci. & Tech. of China	Shen, Yawen	Northwestern Poly-Technical Univ.	
Wang, Wenqin	Tianjin Polytechnic Univ.	Zeng, Xianyi	School of Power & Energy, Northwestern Polytechnical Univ.	
► MoB18-4	16:50–17:10	Shao, Wenxin	Northwestern Poly-Technical Univ.	
<i>Synchronization Analysis and Control of Multi-weighted Complex Networks with Multiple Delays</i>		Zhou, Zihan	Northwestern Polytechnical Univ.	
► MoB19-5	17:10–17:30	► MoB19-5	17:10–17:30	
<i>Predictive Control of Turbofan Engine Model Based on Improved Elman Neural Network</i>		<i>Predictive Control of Turbofan Engine Model Based on Improved Elman Neural Network</i>		
Gou, Linfeng	Northwestern Poly Technique Univ.	Gou, Linfeng	Northwestern Poly Technique Univ.	
Zhou, Zihan	Northwestern Poly-Technical Univ.	Shen, Yawen	Northwestern Poly-Technical Univ.	
Shen, Yawen	Northwestern Poly-Technical Univ.	Shao, Wenxin	Northwestern Poly-Technical Univ.	
Zeng, Xianyi	School of Power & Energy, Northwestern Polytechnical Univ.	Zeng, Xianyi	School of Power & Energy, Northwestern Polytechnical Univ.	
► MoB19-6	17:30–17:50			

<i>Rapid Simulated Annealing Algorithm for Optimization of Aeroengine Control Based on BP Neural Network</i>				
Gou, Linfeng	Northwestern Poly Technique Univ.	Zhu, Shiyong		
Shao, Wenxin	Northwestern Poly-Technical Univ.	Lu, Jianquan		
Zeng, Xianyi	School of Power & Energy, Northwestern Polytechnical Univ.	Southeast Univ. Southeast Univ.		
Shen, Yawen	Northwestern Poly-Technical Univ.	16:50–17:10		
Zhou, Zihan	Northwestern Polytechnical Univ.	► MoB21-4 <i>Canonical Form of Boolean Networks</i>		
► MoB19-7	17:50–18:10	Liu, Zequn		
<i>Modeling and Control Parameter Optimization of Fuel Pressurization System of Micro Gas Turbine</i>				
Zhu, Mingyan	Dalian Univ. of Tech.	Acad. of Mathematics & Sys. Sci. Chinese Acad. of Sci.		
Wang, Rui	Dalian University of Tech.	Cheng, Daizhan		
Xu, Fangcheng	Dalian Univ. of Tech.	Chinese Acad. of Sci.		
Du, Xian	Dalian Univ. of Tech.	17:10–17:30		
► MoB20	16:50–18:10	A Game Theoretic Approach for Service Chain Composition InNetwork Function Virtualization Networks		
Invited Session: Recent Advances on Data-driven Techniques for Control and Monitoring				
Organizer: Yin, Shen	Harbin Inst. of Tech.	Le, Shuting		
Organizer: Luo, Hao	Harbin Inst. of Tech.	Wu, Yuhu		
Chair: Yin, Shen	Harbin Inst. of Tech.	Sun, Xi-Ming		
Co-Chair: Luo, Hao	Harbin Inst. of Tech.	Dalian Univ. of Tech. Dalian Univ. of Tech. Dalian Univ. of Tech.		
► MoB20-1	16:50–17:10	► MoB21-5		
<i>A Multivariate Time Series Classification Based Multiple Fault Diagnosis Method for Hydraulic Systems</i>				
Zhao, Xiaohang	Chongqing Univ.	► MoB22	16:10–17:50	Room 3411, Block 3
Zhang, Ke	Chongqing Univ.	Invited Session: Control Technology for Intelligent Wearable System		
Chai, Yi	Chongqing Univ.	Organizer: Deng, Fang	Beijing Inst. of Tech.	
► MoB20-2	17:10–17:30	Chair: Deng, Fang	Beijing Inst. of Tech.	
<i>Data-driven Adaptive Residual Generator Design Using Sliding Window</i>			Co-Chair: Cui, Wei	South China Univ. of Tech.
Song, Xue	Harbin Inst. of Tech.	► MoB22-1	16:10–16:30	
Luo, Hao	Harbin Inst. of Tech.	<i>Pressure-type Generator for Harvesting Mechanical Energy from Human Gait</i>		
Yin, Shen	Harbin Inst. of Tech.	Deng, Fang	Beijing Inst. of Tech.	
Kaynak, Okyay	Bogazici Univ., Turkey	Cai, Yeyun	Beijing Inst. of Tech.	
► MoB20-3	17:30–17:50	Fan, Xinyu	Beijing Inst. of Tech.	
<i>Multi-sensor System Filtering and Fault Detection under Unbiased Constraint and Colored Measurement Noise</i>		Gui, Peng	Beijing Inst. of Tech.	
Cheng, Chao	School of Computer Sci. & Engineering, Changchun Univ. of Tech.	Chen, Jie	Beijing Inst. of Tech.	
Wang, Weijun	Computer Sci. & Engineering, Changchun Univ. of Tech.	► MoB22-2	16:30–16:50	
Qiao, Xinyu	Changchun Univ. of Tech.	<i>Wearable Human Foot Mechanical Energy Harvesting Device Based on Moving-coil Generator</i>		
Wang, Jiuhe	School of Computer Sci. & Engineering, Changchun Univ. of Tech.	Ding, Ning	Beijing Inst. of Tech.	
► MoB20-4	17:50–18:10	Deng, Fang	Beijing Inst. of Tech.	
<i>Identification of ARX System Based on Shifted Asymmetric Laplace Distribution</i>		Cai, Yeyun	Beijing Inst. of Tech.	
Yu, Miao	Harbin Inst. of Tech.	Gui, Peng	Beijing Inst. of Tech.	
Zhang, Tianyi	Harbin Institute of Tech.	Fan, Xinyu	Beijing Inst. of Tech.	
Yang, Xianqiang	HIT	► MoB22-3	16:50–17:10	
► MoB21	15:50–17:50	<i>Blood Glucose Concentration Prediction Based on Canonical Correlation Analysis</i>		
Invited Session: Hybrid Systems and ASSR (2)				
Organizer: Li, Haitao	Shandong Normal Univ.	He, Jinli	Beijing Univ. of Chemical Tech.	
Organizer: Lu, Jianquan	Southeast Univ.	He, Tong	Central Univ. of Finance & Economics	
Chair: Lu, Jianquan	Southeast Univ.	Wang, Youqing	-	
Co-Chair: Wu, Yuhu	Dalian Univ. of Tech.	► MoB22-4	17:10–17:30	
► MoB21-1	15:50–16:10	<i>Optimal Blood Glucose Prediction Based on Intermittent Data from Wearable Glucose Monitoring Sensors</i>		
<i>Fast-time Stability of Temporal Boolean Networks</i>				
Li, Bowen	Southeast Univ.	Hou, Lijun	Beijing Inst. of Tech.	
Lu, Jianquan	Southeast Univ.	Zhang, Huipeng	Beijing Inst. of Tech.	
► MoB21-2	16:10–16:30	Wang, Junzheng	Beijing Inst. of Tech.	
<i>Partial Synchronization of Logical Control Networks under Event-triggered Control</i>		Shi, Dawei	Beijing Inst. of Tech.	
Ouyang, Chen	Hefei Univ. of Tech.	► MoB22-5	17:30–17:50	
Li, Lulu	Hefei Univ. of Tech.	<i>Low-Power Wireless Wearable ECG Monitoring Chestbelt Based on Ferroelectric Microprocessor</i>		
Ho, Daniel	City Univ. of Hong Kong	Ai, Zhendong	South China Univ. of Tech.	
Lu, Jianquan	Southeast Univ.	Wang, Zihan	South China Univ. of Tech.	
► MoB21-3	16:30–16:50	Cui, Wei	South China Univ. of Tech.	
<i>Robust Set Stabilization of Boolean Control Networks: An Event-Triggered Control Approach</i>				
Zhu, Shiyong	Southeast Univ.	► MoB23	16:10–17:50	Room 3412, Block 3
Lu, Jianquan	Southeast Univ.	Invited Session: Advanced Control of Time-Delay System	South China Univ. of Tech.	
► MoB23-1	16:10–16:30	Organizer: Qi, Tian	Harbin Inst. of Tech.	
<i>Robust H_{∞}filter design for linear time-varying delay systems via the Razumikhin technique</i>		Chair: Qi, Tian	South China Univ. of Tech.	
Zhu, Yangbin	South China Univ. of Tech.	Co-Chair: Zhou, Bin	Harbin Inst. of Tech.	
Zhao, Xueyan	South China Univ. of Tech.	► MoB23-2	16:10–16:30	
► MoB23-2	16:30–16:50	<i>Minimum Average Power Control for Linear Systems with Random Communication Delays</i>		
<i>Robust Set Stabilization of Boolean Control Networks: An Event-Triggered Control Approach</i>				
Li, Junhui	South China Univ. of Tech.	Li, Junhui	South China Univ. of Tech.	
Lu, Jieying	South China Univ. of Tech.	Lu, Jieying	South China Univ. of Tech.	
Su, Weizhou	South China Univ. of Tech.	Su, Weizhou	South China Univ. of Tech.	

► MoB23-3	16:50–17:10		<i>vestment Problem under Correlated Noises</i>	
<i>Data-Driven Based Quadratic Guaranteed Cost Control of Unknown Linear Time-Delay Systems</i>			Yang, Le Zheng, Yueyang Shi, Jingtao	Shandong Univ. Shandong Univ. Shandong Univ.
Jiang, Huaiyuan Zhou, Bin	Harbin Inst. of Tech. Harbin Inst. of Tech.			
► MoB23-4	17:10–17:30			16:30–16:50
<i>Robust Stability Analysis for Linear Systems with Both State and Input Delays via Nested Predictor</i>			<i>Decentralized Output Feedback Control of Large-Scale Stochastic High-Order Feedforward Time-Delay Systems</i>	
Liu, Qingsong	Wuhan Univ. of Sci. & Tech.		Liu, Liang Wang, Yian	Bohai Univ. Bohai Univ.
► MoB23-5	17:30–17:50			16:50–17:10
<i>Lyapunov Matrices Approach to Robust Stability Analysis for Linear Discrete-Time Systems with Multiple Delays</i>			<i>The Corporate Optimal Portfolio and Consumption Choice Problem in Trade Project with Borrowing Rate Higher Than Deposit Rate</i>	
Li, Haifang Wang, Xin Zhang, Xian	Heilongjiang Univ. Heilongjiang Univ. Heilongjiang Univ.		Zhang, Panpan	Shandong Univ.
MoB24	15:50–17:50	Room 3413, Block 3		
Invited Session: Recent Advances in Machine Learning for Control Applications			► MoB25-4	17:10–17:30
Organizer: Liu, Hao	Beihang Univ.		<i>Synchronization for Time-varying Complex Networks via Adaptive Control</i>	
Organizer: Dong, Xiwang	Beihang Univ.		Lin, Shi	Southwest Jiaotong Univ.
Organizer: Yu, Yao	Univ. of Sci. & Tech. Beijing			
Chair: Liu, Hao	Beihang Univ.			
Co-Chair: Dong, Xiwang	Beihang Univ.			
Co-Chair: Yu, Yao	Univ. of Sci. & Tech. Beijing			
► MoB24-1	15:50–16:10			
<i>Attitude Synchronization for Multiple Quadrotors Using Reinforcement Learning</i>				
Liu, Hao Zhao, Wanbing Lewis, Frank Jiang, Zhong-Ping Modares, Hamidreza	Beihang Univ. Beihang University Univ. of Texas at Arlington New York Univ. Michigan State Univ.			
► MoB24-2	16:10–16:30			
<i>Multi-Rotor UAV Path Planning Method Based on Improved Artificial Potential Field Method</i>				
Song, Jia Zhao, Mingfei Liu, Yang Liu, Hao Guo, Xiaohong	Beihang Univ. Beihang Univ. Beihang Univ. (BUAA) Beihang Univ. Xi AN Satellite Control & Measure Center			
► MoB24-3	16:30–16:50			
<i>Cooperative Trajectory Planning and Trajectory Tracking Control for Multiple Surface Vessels System</i>				
Tang, Kai Yang, Yuan Zhao, Mingyang Li, Mohan Hao, Zhaojun	Sys. Engineering Research Inst. Sys. Engineering Research Inst., CSSC Sys. Engineering Research Institution Sys. Engineering Research Inst., CSSC Sys. Engineering Research Inst.			
► MoB24-4	16:50–17:10			
<i>Practical Adaptive Time-varying Output Formation Tracking for High-order Nonlinear Multi-agent Systems Using Neural Networks</i>				
Yu, Jianglong Dong, Xiwang Ren, Zhang Ma, Ming	Beihang Univ. Beihang Univ. Beihang Univ. Shaanxi Key Laboratory of Integrated & Intelligent Navigatio			
► MoB24-5	17:10–17:30			
禁飞区绕飞线性伪谱再入制导算法				
<i>Entry Guidance with No-Fly Zone Avoidance Using Linear Pseudospectral Method</i>				
Yang, Liang Yang, Jin Du, Wenhao He, Xingcai	Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ.			
MoB25	16:10–17:30	Room 3415, Block 3		
Invited Session: Stochastic Optimal Control Theory and Related Fields				
Organizer: Wang, Guangchen	Shandong Univ.			
Chair: Wang, Guangchen	Shandong Univ.			
Co-Chair: Liu, Liang	Bohai Univ.			
► MoB25-1	16:10–16:30			
<i>Risk-Sensitive Stochastic Control with Applications to An Optimal In-</i>				
			Xing, Shuangyun Zheng, Wei Xing Wang, Meng	Shenyang Jianzhu Univ. Western Sydney Univ. Shenyang Jianzhu Univ.
			► MoB27-2	16:10–16:30
			<i>Reliable H_∞ Filtering for Delayed Markovian Jump Neural Networks with Time-delays and Sensor Failures</i>	
			Li, Zuxin	Huzhou Univ.

Xia, Weifeng Feng, Yuanzhen Li, Yongmin	Nanjing Univ. of Sci. & Technolgy Nanjing Univ. of Sci. & Tech. Huzhou Teachers College	Gao, Junli	Guangdong Univ. of Tech.
► MoB27-3 <i>Adaptive Neural Dynamic Surface Control of A Stratospheric Airship with Time-varying Full State Constraints and Disturbances</i>	16:30–16:50 Wei, Yan Zhou, Pingfang Wang, Yueying Duan, Dengping Zhou, Weixiang	Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.	Liu, Yuanhao Zheng, Yang Han, Linghao Liu, Jingmeng Pan, Zhongjie Sun, Fengchi
► MoB27-4 <i>Finite-time H_∞ non-fragile filter design for a class of conic-type nonlinear switched systems</i>	16:50–17:10 Lyu, Xiaoxiao He, Shuping	Anhui University Anhui Univ.	Shanghai Univ. Shanghai Univ.
► MoB27-5 <i>Multi-lag Stochastic Synchronization of Coupled Neural Networks via Impulsive Control</i>	17:10–17:30 Sun, Haiyi Li, Ning Miao, Shuxian Fan, Jun	Shenyang JianZhu Univ. Northeastern Univ. Shenyang JianZhu Univ. Shenyang JianZhu Univ.	Chen, Yu Li, Baoming Miao, Zhonghua
► MoB27-6 <i>Variable Structure Control for Nonlinear Neutral Systems</i>	17:30–17:50 Hu, Heli Zhao, Dan	Shenyang Univ. Shenyang Inst. of Engineering	Chinese Acad. of Agriculture Mechanization Sci. Shanghai Univ.
Poster Session PMoA July 29, 13:30–15:30		Platform near the Century Convention Hall, 2nd Floor, Block 4	
Chair: Li, Shaoyuan	Shanghai Jiao Tong Univ.	Han, Yisa Zhang, Li Tan, Haiyan Xue, Xulu	Tianjin Univ. Xi'an Polytechnic Univ. Xi'an Polytechnic Univ. Xi'an Polytechnic Univ.
Chair: Pan, Quan	Northwestern Polytechnical Univ.	► PMoA-09 <i>Mobile Robot Path Planning Based on Improved Particle Swarm Optimization</i>	Xi'an Polytechnic Univ.
Chair: Sun, Jian	Beijing Inst. of Tech.	► PMoA-10 <i>A Semi-dense Direct Visual Inertial Odometry for Long-term State Estimator</i>	Xi'an Polytechnic Univ.
Chair: Xie, Yongchun	Beijing Inst. of Control Engineering	Han, Tianrui Zong, Qun Lu, Hanchen Tian, Bailing	Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ.
Chair: Xue, Anke	Hangzhou Dianzi Univ.	► PMoA-11 <i>A Line/Plane Feature-based Lidar Inertial Odometry and Mapping</i>	Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ.
► PMoA-01 <i>Design of Pre-calibration Method for Concrete Distributor Based on Photoelectric Switch</i>	Li, Dong Li, Yang Zhang, Ke Wu, Yuhou Sun, Hong Zou, Defang	Huo, Xinyou Dou, Lijian Lu, Hanchen Tian, Bailing Du, Miaomiao	Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ.
► PMoA-02 <i>Suppression of Time-varying Periodic Disturbance Based on Novel Repetitive Control</i>	Tao, Ruichao Chen, Zhao Ren, Wenming Wang, Weixin	Deng, Xiangyu Jin, Gumin Wang, Meng Li, Jianxun	Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.
► PMoA-03 <i>Fuzzy Variable Impedance Adaptive Robust Control Algorithm of Exoskeleton Robots</i>	Mi, Weiming Zhang, Tao	► PMoA-12 <i>Robust 3D-SLAM with Tight RGB-D-Inertial Fusion</i>	Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ.
► PMoA-04 <i>A Novel Motion Stage Design by Reducing Disturbance Bandwidth of ADRC for Higher Performance</i>	Yang, Zhijun Hao, Peng Xue, Wenchao Sun, Han	Li, Xianlong Jiang, Houxiang Shi, Wenqi Chen, Shao Qing Wang, Yong	Univ. of Sci. & Tech. of China China Water Sunny Data Tech. Company Univ. of Sci. & Tech. of China Univ. of Sci. & Tech. of China Univ. of Sci. & Tech. of China
► PMoA-05 <i>Design and Implementation of Trajectory Tracking Controller for Non-holonomic Mobile Robots Based on the Lyapunov Method</i>	Cui, Mingyue Zhao, Jinji Liu, Hongzhao	Zhu, Zeya Xie, Jun Wang, Zhi	Naval Univ. of Engineering Naval Univ. of Engineering Naval Univ. of Engineering
► PMoA-06 <i>A Voice Control Platform of Mobile Robot Through ROS</i>	Nanyang Normal Univ. Nanyang Normal Univ. Nanyang Normal Univ.	Xiang, Lidan Zhou, Yan	Xiangtan Univ. Xiangtan Univ.
		► PMoA-13 <i>Path Planning of Multipoint Region Attraction RRT* Algorithm in Complex Environment</i>	
		Xiang, Lidan Zhou, Yan	
		► PMoA-14 <i>A Rule-based Cooperative Exploration Method for Dual Robots in Unknown Environment</i>	
		Zhu, Zeya Xie, Jun Wang, Zhi	
		► PMoA-15 <i>Consensus on Interactive Multiple UKFs for Tracking in Mixed LOS/NLOS Conditions</i>	
		Xiang, Lidan Zhou, Yan	
		► PMoA-16 <i>Improved Cubature Kalman Filtering-based Estimation of the Jacobian Matrix for Environment Mutation</i>	
		Jia, Xiuqian Wang, Haixia Sheng, Chunyang	
			Shandong Univ. of Sci. & Tech. Shandong Univ. of Sci. & Tech. Shandong Univ. of Sci. & Tech.

Zhang, Zhiguo Cui, Wei Lu, Xiao	Shandong Univ. of Sci. & Tech. Nanyang Technological Univ. Shandong Univ. of Sci. & Tech.	▷ PMoA-27 <i>Multilane Detection and Tracking Based on Binocular Vision Stixel World Estimation and IPM</i> Li, Jing Wang, Junzheng	Bit Beijing Inst. of Tech.
▷ PMoA-17 <i>Point Cloud Registration Algorithm Fusing of Super4PCS and ICP Based on the Key Points</i>	Lu, Jun Wang, Wei Shao, Hongxu Su, Li	Harbin Engineering Univ. Harbin Engineering Univ. Harbin Univ. Harbin Engineering Univ.	
▷ PMoA-18 <i>Sliding Model Active Disturbance Rejection Control for Tip Trajectory Tracking of Spray Painting Manipulator</i>	Wang, Zhong Jiao, Xiaohong Lin, Zhanmeng	Yanshan Univ. Yanshan Univ. Yanshan Univ.	
▷ PMoA-19 <i>A Novel RBF Neural Network-based Iterative Learning Control for Lower Limb Rehabilitation Robot with Strong Robustness</i>	Sun, Zhongbo Li, Feng Wang, Gang Liu, Yongbai Lian, Yufeng Liu, Keping	Jilin Univ. Changchun Univ. of Tech. Changchun Univ. of Tech. Changchun Univ. of Tech. Changchun Univ. of Tech. Changchun Univ. of Tech.	
▷ PMoA-20 <i>Multi-objective Mobile Robot Path Planning Algorithm Based on Adaptive Genetic Algorithm</i>	Yang, Changfu Zhang, Tao Pan, Xihao Hu, Mengyang	Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ.	
▷ PMoA-21 <i>Car-like Mobile Robot Path Planning in Rough Terrain with Danger Sources</i>	Wang, Baofang Ren, Jiabo Cai, Mingjie	Qingdao Univ. Qingdao Univ. Qingdao Univ.	
▷ PMoA-22 <i>An Infotaxis-based Odor Source Searching Strategy for A Mobile Robot Equipped with A TDLAS Gas Sensor</i>	Dai, Xuyang Wang, Jiaying Meng, Qing-Hao	Tianjin Univ. Tianjin Univ. Tianjin Univ.	
▷ PMoA-23 <i>Fixed-time Stabilization Control for Underactuated AUV with External Disturbance</i>	Wang, Hongbin Su, Bo Wang, Yueling Luo, Qianda	Yanshan Univ. Yanshan Univ. College of Electrical Engineering, Yanshan Univ. Yanshan Univ.	
▷ PMoA-24 <i>Welding Robotic Hand-eye Calibration Method Based on Structured Light Plane</i>	Xu, Fangkai Fan, Shengli Yang, Qingqing Zhang, Chang Wang, Yigang	Zhejiang Univ. Ningbo Inst. of Tech., Zhejiang Univ. Ningbo Inst. of Tech., Zhejiang Univ. Ningbo Boschda Welding Robot Co., Ltd Ningbo Inst. of Tech., Zhejiang Univ.	
▷ PMoA-25 <i>A Probability Adaptive Sampling-based Algorithm for Obstacle Avoidance Motion Planning Problems</i>	Mi, Kai Zheng, Jun Wang, Yunkuan	Inst. of Automation Chinese Acad. of Sci. Inst. of Automation the Chinese Acad. of Sci. Inst. of Automation the Chinese Acad.	
▷ PMoA-26 <i>Event-based Hybrid Impedance and Admittance Control</i>	Yang, Bo Zhai, Di-Hua Lyu, Weizhi Xia, Yuanqing	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.	
▷ PMoA-27 <i>Multilane Detection and Tracking Based on Binocular Vision Stixel World Estimation and IPM</i>	Li, Jing Wang, Junzheng		Bit Beijing Inst. of Tech.
▷ PMoA-28 <i>Real-time Detection of Traversable Path Based on Image Point Cloud</i>	Li, Boran Qian, Xiaolong		Northeastern Univ. Northeastern Univ.
▷ PMoA-29 <i>基于改进ORB特征点法的移动机器人定位算法研究</i>			
		<i>Localization Algorithm of Mobile Robots Based on Improved ORB Feature Point Method</i>	
		Lu, Yixin Ma, Lei Sun, Yongkui Su, Bin	Southwest Jiaotong Univ. Southwest Jiaotong Univ. Southwest Jiaotong Univ. Southwest Jiaotong Univ.
▷ PMoA-30 <i>Effect Evaluation of A Wearable Exoskeleton Chair Based on Surface EMG</i>	Li, Zhiyuan Zhang, Tao Xue, Tao Du, Zihao Bai, Ou		Tsinghua Univ. Tsinghua Univ. Tsinghua Univ. Huazhong Univ. of Sci. & Tech. Florida International Univ.
▷ PMoA-31 <i>Optimal Trajectory Planning Based on Improved Adaptive Genetic Algorithm for A 6 DOF Manipulator</i>	Zhang, Haoyang Yuan, Yan Chen, Xin		China Univ. of GeoSci., Wuhan China Univ. of GeoSci. China Univ. of GeoSci.
▷ PMoA-32 <i>Trajectory Tracking Control of A Parallel Drive Manipulator Based on Model Free Adaptive Control</i>	Li, Wei Ren, Chao Wang, Longhai Ding, Yutong Ma, Shugen Zhu, Xinshan		Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ. Ritsumeikan Univ. Tianjin Univ.
▷ PMoA-33 <i>Path Planning of Flexible Ureteroscope Based on CT Image</i>	Yang, Fan Dai, Yu Zhang, Jianxun Sun, Huijiao Cui, Liang Yin, Xiaotao		Nankai Univ. Nankai Univ. Nankai Univ. Nankai Univ. Civil Aviation General Hospital The First Affiliated Hospital of the General Hospital of the People's Liberation Army
	Gao, Xiaofeng Li, Ling		Changhai Hospital Changhai Hospital
▷ PMoA-34 <i>Design of Control System for Bone Drilling Robot Based on Vibration Signal Feedback</i>	Cao, Guangwei Dai, Yu Zhang, Jianxun Jia, Bin Ge, Jintao		Nankai Univ. Nankai Univ. Nankai Univ. Nankai Univ. Nankai Univ.
▷ PMoA-35 <i>Localization and Navigation Method for Omni-directional Mobile Robot Based on Odometry</i>	Mao, Chuwei Huo, Ju Zhang, Zhanyu		Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech.
▷ PMoA-36 <i>一种基于七自由度机械臂Franka的视觉伺服系统</i>			
	<i>Visual Servo System Based on 7-Dof Robotic Arm Franka</i>		
	Dong, Guili Wu, Hangyu Zhou, Minlong		Zhejiang Univ. of Tech. ZheJiang Uinversity of Tech. Noblelift Intelligent Equipment Co. Ltd

Qiu, Xiang Zhang, Wen'an	Zhejiang Univ. of Tech. Zhejiang Univ. of Tech.	He, Xu	Shenyang Inst. of Automation, Chinese Acad. of Sci., Shenyang, China
▷ PMoA-37 <i>A Speech Interaction System Based on Cloud Service under ROS</i>	Wang, Jianxin Shi, Zhongsuo	Lu, Xiaodong	Shenyang Inst. of Automation, Chinese Acad. of Sci.
▷ PMoA-38 <i>Fishery Monitoring System with AUV Based on YOLO and SGBM</i>	Wu, Haotian Deng, Zejun He, Shiming Kou, Liwei Huang, Kangwei Suo, Feiyang Cao, Zhe	Zhejiang Univ. Zhejiang Univ. Zhejiang Univ. Zhejiang Univ. Zhejiang Univ. Zhejiang Univ. Zhejiang Univ.	Wei, Yuqin Song, Dandan Weng, Zhengxin
▷ PMoA-39 <i>Multi-strategy Based Exploration for 3D Mapping in Unknown Environments Using A Mobile Robot</i>	Ding, Jie Fang, Yongchun	NanKai Univ. Nankai Univ.	Jia, Qingxian Sun, Xiuqin Wu, Lina Li, Huayi
▷ PMoA-40 <i>Flocking Control of Amigobots in Complex Environment with Obstacles</i>	Cheng, Jin Xu, Yuan	Univ. of Jinan Your Univ., Company, or Organization, Eg. Chinese Acad. of Sci.	Nanjing Univ. of Aeronautics & Astronautics CRRC Construction Engineering Co., Ltd Aerospace Star Tech. Co., Ltd Harbin Inst. of Tech.,
▷ PMoA-41 <i>Research Status of SLAM</i>	Wang, Bin	Univ. of Jinan	Zhao, Zhen Zhang, Jun Sun, Yigang Liu, Zhexu
▷ PMoA-42 <i>An Iterative Closest Points Optimization Algorithm for Localization of Mecanum-wheeled Robots</i>	Hao, Ning Xing, Rui Zhao, Qi He, Fenghua Zhang, Hang	Univ. of Jinan Univ. of Jinan Univ. of Jinan Harbin Inst. of Tech. Northwestern Polytechnical Univ.	Civil Aviation Univ. of China Northeastern Univ. Civil Aviation Univ. of China Civil Aviation Univ. of China
▷ PMoA-43 <i>An Improved APF-based Path Planning Algorithm for A Quadrotor Intercepting Autonomous Ground Robots</i>	Li, Yuanhong Yao, Haodi Yu, Hang He, Fenghua Yao, Yu	Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech.	Dong, Zhuoning Chen, Linjie
▷ PMoA-44 <i>An MPC-based Strategy Design for An Autonomous Aerial Robot</i>	Yao, Haodi Xing, Rui Li, Yuanhong He, Fenghua	Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech.	Cao, Chengcheng Liu, Mingliang Li, Bing
▷ PMoA-45 <i>An Interacting Control Method for Quadrotor Based on ADRC</i>	Yu, Hang Yao, Haodi Li, Yuanhong He, Fenghua Yao, Yu	Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech.	Heilongjiang Univ. Heilongjiang Univ. Heilongjiang Univ. Heilongjiang Univ.
▷ PMoA-46 <i>Fault Diagnosis for Satellite Attitude Control System with Using Extended Kalman Filter</i>	Gao, Sheng Zhang, Zhaowei Zhang, Wei	Shenyang Inst. of Automation, Chinese Acad. of Sci. Shenyang Inst. of Automation, Chinese Acad. of Sci. Shenyang Inst. of Automation(SIA),Chinese Acad. of Sci.(CAS)	Liu, Han Qi, Xiangyi Xu, Kang Xiao, Xiaowu
▷ PMoA-47 <i>Basis of DPCA-KNN的工业过程故障诊断方法研究</i>			Univ. of Sci. & Tech. Beijing Shenyang Ligong Univ. Beijing Inst. of Tech. Beijing Inst. of Tech.
▷ PMoA-48 <i>Research on Fault Diagnosis Method of Industrial Process Based on DPCA-KNN</i>			Zhao, Jing Xie, Xianghua Zhang, Rui
▷ PMoA-49 <i>Fault Propagation for Single Fault Source in Avionics</i>			Shanghai Microstate Engineering Center Shanghai Microstate Engineering Center Shanghai Microstate Engineering Center
▷ PMoA-50 <i>Image Registration in PCB Fault Detection Based on Infrared Thermal Imaging</i>			Heilongjiang Univ. Heilongjiang Univ. Heilongjiang Univ.
▷ PMoA-51 <i>Mechanical Fault Diagnosis of High Voltage Circuit Breakers Utilizing VMD and Optimal SVM Classifier</i>			Qin, Habin Liu, Mingliang Guo, Zijian
▷ PMoA-52 <i>A Fault Diagnosis Method for Rotating Bearings Based on EWT Multi-Scale Entropy and PSO Algorithm to Optimize SVM</i>			Heilongjiang Univ. Heilongjiang Univ. Heilongjiang Univ.
▷ PMoA-53 <i>A Method for Identifying Weak Faults of Rolling Bearings Around Railway Based on PCA&SVD-LMD</i>			Liu, Han Qi, Xiangyi Xu, Kang Xiao, Xiaowu
▷ PMoA-54 <i>Decentralized Sliding-mode and Fault-tolerant Control for Heterogeneous Multi-agent Systems</i>			Univ. of Sci. & Tech. Beijing Shenyang Ligong Univ. Beijing Inst. of Tech. Beijing Inst. of Tech.
▷ PMoA-55 <i>A Novel Astrocyte-mediated Self-repairing CPG Neural Network</i>			Zhao, Jing Xie, Xianghua Zhang, Rui
▷ PMoA-56 <i>On Gate Oxide Degradation Mechanism and Chip-Related Failure Precursors of IGBT</i>			Shanghai Microstate Engineering Center Shanghai Microstate Engineering Center Shanghai Microstate Engineering Center
▷ PMoA-57			Zhang, Yang Xu, Guoqing Xiang, Dawei Yin, Luqiao Liu, Yang

<i>Cooperative Fault-tolerant Formation Control for Nonlinear Multi-agent Systems with Actuator Faults</i>	Shen, Wenhao	South China Univ. of Tech.
Shi, Jiantao		Tsinghua Univ.
▷ PMoA-58		
<i>Incipient Fault Diagnosis Method of Railway Vehicle Door System Based on Random Forest</i>	▷ PMoA-68	
Shi, Wen	CNN-based Fault Diagnosis of High-speed Train with Imbalance Data: A Comparison Study	
Lu, Ningyun	Wu, Yunpu	Southwest Jiaotong Univ.
Jiang, Bin	Jin, Weidong	Southwest Jiaotong Univ.
Zhi, Youran		
Xu, Zhiping		
Nanjing Univ. of Aeronautics & Astronautics		
Nanjing Univ. of Aeronautics & Astronautics,		
Nanjing Univ. of Aeronautics & Astronautics		
School of Mechanical Engineering		
Nanjing Kangni Mechanical & Electrical Co., Ltd		
▷ PMoA-59		
<i>Observer Based Fault Estimation for Induction Motor with Stator Interturn Short Circuit Faults and Disturbances</i>	▷ PMoA-69	
Niu, Jialin	Fault Diagnosis of Modular Multilevel Converter with FA-SVM Algorithm	
Mao, Zehui	Jiao, Wenhao	Wuhan Univ. of Sci. & Tech.
Zhang, Yufeng	Liu, Zhenxing	WuHan Univ. of Sci. & Tech.
Jiang, Bin	Zhang, Yong	Wuhan Univ. of Sci. & Tech.
Guo, Yongliang		
Nanjing Univ. of Aeronautics & Astronautics		
Nanjing Univ. of Aeronautics & Astronautics		
CSSC Sys. Engineering Research Inst.		
Nanjing Univ. of Aeronautics & Astronautics		
Nanjing Univ. of Aeronautics & Astronautics		
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<i>Fault Detection and Isolation for A Fixed-wing UAV Swarm System with Uncertainties and Disturbances</i>	▷ PMoA-70	
Deng, Ruiliang	Fault Diagnosis of Pitch System Based on Data Statistics	
Chen, Jintao	Zhao, Lijun	Shenyang Univ. of Tech.
Wang, Mingdong		
Shi, Zongying		
Zhong, Yisheng		
Tsinghua Univ.		
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Cao, Zhe	Integrated Fault-Tolerant Flight Control System with Actuator Amplitude Saturation	
Xu, Jian	Liu, Yishi	Beihang Univ.
Xiao, Wei	Liu, Fei	Civil Aviation Management Inst. of China
Gao, Yanjing	Dong, Xiwang	Beihang Univ.
Wu, Haotian	Li, Qingdong	Beihang Univ.
Zhejiang Univ.	Ren, Zhang	Beihang Univ.
Zhejiang Univ.		
▷ PMoA-62		
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Zhou, Huaze	Applications of Sub-period Division Strategies on the Fault Diagnosis with MPCA for the Biological Wastewater Treatment Process of Paper Mill	
Wang, Shujing	Huang, Feini	South China Univ. of Tech.
Miao, Zhonghua	Shen, Wenhao	South China Univ. of Tech.
He, Chuangxin	Liu, Zhang	South China Univ. of Tech.
Liu, Shuping		
Shanghai Univ.		
Institution		
▷ PMoA-63		
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Gao, Long	Composite Fault Detection and Diagnosis for IGBT and Current Sensor in CRH2 Through Modified EEMD and KPCA Methods	
Li, Donghui	Li, Ziheng	Nanjing Univ. of Aeronautics & Astronautics
Li, Ding	Chen, Fuyang	Nanjing Univ. of Aeronautics & Astronautics
Yin, Haiyan	Wang, Li	Norinco Group
Tianjin Univ.	Jiang, Bin	Nanjing Univ. of Aeronautics & Astronautics
Tianjin Univ.		
Tianjin Univ.		
Tianjin Univ.		
▷ PMoA-64		
<i>Fault Diagnosis for Distributed UAVs Formation Based on Unknown Input Observer</i>	▷ PMoA-74	
Li, Dejie	Fault-tolerant Reconfiguration Controller Design for Intelligent Unmanned Airship with Control Surface Failures	
Yang, Pu	Guo, Zhongyi	Huazhong Univ. of Sci. & Tech.
Liu, Zhangxi	Fan, Huijin	Huazhong Univ. of Sci. & Tech.
Liu, Jianwei	Liu, Lei	Huazhong Univ. of Sci. & Tech.
Nanjing Univ. of Aeronautics & Astronautics	Wang, Yongji	Huazhong Univ. of Sci. & Tech.
Nanjing Univ. of Aeronautics & Astronautics	Hu, Xiaoya	Huazhong Univ. of Sci. & Tech.
Nanjing Univ. of Aeronautics & Astronautics	Xiao, Pengan	China Ship Development & Design Center
Nanjing Univ. of Aeronautics & Astronautics		
Nanjing Univ. of Aeronautics & Astronautics		
Nanjing Univ. of Aeronautics & Astronautics		
▷ PMoA-65		
<i>Bearing Fault Diagnosis Based on One-Dimensional Convolution Network and Residual Training</i>	▷ PMoA-75	
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Zhang, Caixia	He, Yun	South China Univ. of Tech.
Liu, Guowen	Yang, Dehua	South China Univ. of Tech.
Foshan Univ.	Liu, Fuchun	South China Univ. of Tech.
Foshan Univ.	Li, Xiangyang	South China Uni. of Tech
Foshan Univ.	Zou, Lin	Southern Grid Sci. Research Inst.
	Yuan, Yao	Inst. of Power Electrical Center, China Southern Grid
	Liu, Huanrui	Electric Power Research Inst., CSG
▷ PMoA-66		
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Li, Wei	Xu, Hui	Hubei Univ. of Tech.
Lanzhou Univ. of Tech.	Chen, Hongwei	Hubei Univ. of Tech.
Lanzhou Univ. of Tech.		
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	Spatio-Temporal Data Fusion Based on Multi-source Fuzzy Neural Network	
	Han, Honggui	Beijing Univ. of Tech.
	Tao, Xukun	Beijing Univ. of Tech.
	Qiao, Junfei	Beijing Univ. of Tech., China
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Sun, Pingyuan	Zhejiang Univ.	Jiang, Hao	Fuzhou Univ.
Zhang, Jianliang	Zhejiang Univ.	Lin, Yating	Fuzhou Univ.
Qi, Donglian	Zhejiang Univ.	Chen, Jing	College of Electrical Engineering & Automation, Fuzhou Univ.
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<i>Output Feedback Stabilization of Cyber-Physical System under DoS Jamming Attacks</i>		<i>Excessive-emission Vehicles Real-time Track Matching Algorithm Based on Road Network Topology and Weights</i>	
Wang, Mufeng	South China Univ. of Tech.	Sun, Haoze	Hangzhou Dianzi Univ.
Chen, Liding	South China Univ. of Tech.	Jiang, Peng	Hangzhou Dianzi Univ.
Xu, Bugong	South China Univ. of Tech.	She, Qingshan	Hangzhou Dianzi Univ.
▷ PMoA-80		Yu, Cheng	Hangzhou Dianzi Univ.
<i>Event-Based Position Tracking Control for Discrete-Time Surface-Mounted Permanent Magnet Synchronous Motor</i>		Lin, Hongze	Hangzhou Dianzi Univ.
Huang, Ruipeng	South China Univ. of Tech.	Wu, Xiang	Fudan Univ.
Wang, Min	South China Univ. of Tech.	Lin, Guang	Zhejiang Provincial Environmental Monitoring Center
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<i>H-infinity Control for Networked Control Systems with An Adaptive Event-triggered Scheme under Stochastic Sampling</i>		<i>Design of Smart Home Monitoring and Control System Based on Zigbee and WiFi</i>	
Xie, Xuhuan	South China Univ. of Tech.	Li, Chentao	China Univ. of GeoSci., Wuhan
Li, Shanbin	South China Univ. of Tech.	Dong, Kaifeng	China Univ. of GeoSci.
Xu, Bugong	South China Univ. of Tech.	Jin, Fang	The Univ. of GeoSci.
▷ PMoA-82		Song, Junlei	China Univ. of GeoSci.
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Jiang, Xianghua	Univ. of Sci. & Tech. of China	▷ PMoA-91	
Li, Feng	Univ. of Sci. & Tech. of China	<i>PUF-based Anonymous RFID System Ownership Transfer Protocol</i>	
Wang, Song	Univ. of Sci. & Tech. of China	Sun, Zi Wen	Jiangnan Univ.
Ling, Qiang	Univ. of Sci. & Tech. of China	Wei, Min	Jiangnan Univ.
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<i>Stabilization of A Continuous-time Linear System with Bounded Network Delay Based on Periodic Event-triggering</i>		<i>Underwater Mobility Positioning for Coverage Planning with Floating Anchor Node External Correction</i>	
Chen, Rui	Univ. of Sci. & Tech. of China	Luo, Chengming	Hohai Univ.
Li, Feng	Univ. of Sci. & Tech. of China	Xin, Gaifang	Changzhou College of Information Tech.
Wang, Song	Univ. of Sci. & Tech. of China	Yang, Hai	Southwest Petroleum Univ.
Ling, Qiang	Univ. of Sci. & Tech. of China	Chen, Xihui	Hohai Univ.
▷ PMoA-84		Fan, Xinnan	Hohai Univ.
<i>H-infinity Control for Networked Singular Systems under Quantization and Unknown Periodic Denial-of-Service Attacks</i>		Zhang, Xue-Wu	Hohai Univ.
Lv, Wang	Nanjing Univ. of Posts & Telecommunications	Wang, Erhua	Changzhou College of Information Tech.
Hu, Songlin	Nanjing Univ. of Posts & Telecommunications	▷ PMoA-93	
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Cheng, Zihao	Nanjing Univ. of Posts & Telecommunications	Wang, Shoubin	Tianjin Univ.
Ge, Hui	Nanjing Univ. of Posts & Telecommunicaiton	Zhao, Bo	Tianjin Chengjian Univ.
▷ PMoA-85		Li, Donghui	Tianjin Univ.
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Xu, Yuan	Harbin Inst. of Tech.	▷ PMoA-94	
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Zheng, Tianyu	Harbin Institute of Tech.	Wang, Shoubin	Tianjin Univ.
Hao, Ning	Harbin Inst. of Tech.	Shi, Mingxing	Tianjin Chengjian Univ.
Zhang, Xinran	Harbin Inst. of Tech.	Li, Donghui	Tianjin Univ.
Li, Xinglong	Harbin Inst. of Tech.	Du, Tao	Tianjin Eco-City Construction Investment Co.Ltd
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<i>Performance Analysis of M-ary Tree Sensor Network with Node and Link Failure</i>		<i>Research on Android-based Video Monitoring for Greenhouse Devices Status</i>	
Zhu, Dezheng	The 28th Inst. of China Electronics Tech. Group Corporation	Huang, Yunmeng	Univ. of Sci. & Tech. of China
Fang, Guangjiang	The 28th Inst. of China Electronics Tech. Group Corporation	Qin, Linlin	Univ. of Sci. & Tech. of China
Huan, Guoyang	The 28th Inst. of China Electronics Tech. Group Corporation	Wu, Gang	Univ. of Sci. & Tech. of China
▷ PMoA-87		Shi, Chun	Univ. of Sci. & Techology of China
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Zhang, Yitong	Beijing Inst. of Tech.	无穿戴人体活动识别的一维卷积神经网络方法	
Guo, Shuli	Beijing Inst. of Tech.	<i>One-Dimensional Convolutional Neural Network for Device-Free Human Activity Recognition</i>	
Chen, Qiming	Beijing Inst. of Tech.	Gao, Zhenyue	Univ. of Sci. & Tech. Beijing
Han, Lina	Chinese PLA General Hospital	Song, Kai	Univ. of Sci. & Tech. Beijing
Si, Quanjin	Hainan Hospital of PLA General Hospital	Zhao, Ziqiu	Univ. of Sci. & Tech. Beijing
▷ PMoA-88		Zheng, Heng	School of Automation & Electrical Engineering
<i>Application of Distributed Estimation Algorithm in Wavelength Demodulation of Overlapping Spectra of Fiber Bragg Grating Sensor Networks</i>		Xiao, Wendong	Univ. of Sci. & Tech. Beijing, Beijing, China
▷ PMoA-97		▷ PMoA-98	
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Liu, Jie Yu, Zhibin	Southwest Jiaotong Univ. Southwest Jiaotong Univ.	<i>and Thermostatically Controlled Loads</i>
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Cheng, Ze Zhang, Wen Liu, Chong	Tianjin Univ. Tianjin Univ. Tianjin Univ.	<i>Control of A Networked Microgrid System with An Approximate Dynamic Programming Approach</i>
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Feng, Peng	School of Electrical Engineering & Automation Hefei Univ. of Tech.	<i>Design and Implementation of Monitoring Controller for Switch Machine Gap Based on Image Processing</i>
Xie, Zhen	School of Electric Engineering & Automation Hefei Univ. of Tech.	Wang, Chenhong Liu, Quanli Wang, Wei
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<i>Adaptive Fuel-Air Ratio Control of Compressed Natural Gas Engines</i>	▷ PMoA-112	
Yang, Jun Yi, Fengyan	Shandong Jiaotong Univ. Shandong Jiaotong Univ.	<i>Design and Implementation of Train Broadcast Controller Software Based on Hierarchical State Machine</i>
▷ PMoA-102	Zhang, Yicheng Wang, Wei Liu, Quanli	Dalian Univ. of Tech. Dalian Univ. of Tech. Dalian Univ. of Tech.
<i>Design of Balanced Charging Circuit for Lithium Ion Battery</i>	▷ PMoA-113	
Wan, Lili Yan, Chen Zhou, Yang	Wuhan Donghu Univ. Wuhan Donghu Univ. Wuhan Univ. of Tech.	<i>Adaptive Control for Automatic High-speed Trains Operation by Integral Reinforcement Learning and Parameter Identification</i>
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Huang, Shun Zhang, Lijun	China Univ. of GeoSci.(Wuhan) College of School of Automation, China Univ. of GeoSci., Wuhan, China, 430074	<i>Fuzzy Control of Clutch During Mode Switching of Single-axis Parallel Hybrid Electric Vehicles</i>
Guo, Hui Chen, Peng Xia, Wei Hu, Cong	China Univ. of GeoSci. (Wuhan) China Univ. of GeoSci. (Wuhan) China Univ. of GeoSci. China Univ. of GeoSci. (Wuhan)	Ding, Jingang Jiao, Xiaohong Wang, Wei Gong, Yu Wang, Zhiqiang
▷ PMoA-104	Yanshan Univ. Yanshan Univ. Yanshan Univ. Baic Motors CO.LTD Automotive Research Inst. Baic Motors CO.LTD Automotive Research Inst.	
<i>Small Signal Modeling, Analysis and Control of A Novel Switched Quasi-Z-Source Boost Inverter for Renewable Energy System</i>	▷ PMoA-115	
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▷ PMoA-105	Fu, Yuanxiang Li, Wei Zhang, Huimin	Beijing Jiaotong Univ. Beijing Transport Inst. Beijing Jiaotong Univ.
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Yu, Xiaoyang	Xi'an Inst. of Optics & Precision Mechanics of CAS of Chinese Acad. of Sci.	<i>基于MPC的四轮独立转向电动车路径跟踪控制研究</i>
▷ PMoA-106	Research on 4WIS Electric Vehicle Path Tracking Control Based on MPC Algorithm	
Wang, Rongbin	Xi'an Professional Equipment Research Laboratory	Li, Yan Xue, Nannan Zhang, Bang Chen, Xinbo
Qiao, Yongming	Xi'an Inst. of Optics & Precision Mechanics of CAS	School of Mechanical Engineering, Tongji Univ. Tongji Univ. School of Mechanical Engineering Tongji Univ.
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<i>A Space Vector Modulation without Voltage Spikes for Single-Phase Voltage Source High-Frequency Link Matrix Rectifier</i>	<i>Research on 4WIS Electric Vehicle Path Tracking Control Based on Adaptive Fuzzy PID Algorithm</i>	
Wu, Changxuan Du, Chunshui Liu, Qiang Jia, Bingxin	Shandong Univ. Shandong Univ. Shandong Univ. Shandong Univ.	Chen, Xinbo Bao, Qilin Zhang, Bang
▷ PMoA-108	Clean Energy Automotive Engineering Center	Tongji Univ. Tongji Univ. Tongji Univ.
<i>Design of Three Phase Grid-Connected Inverter Based on Grid-Voltage Oriented Control</i>	▷ PMoA-118	
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<i>Control of Wind Power Smoothing with Battery Energy Storage System</i>	▷ PMoA-119	
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▷ PMoA-110	▷ PMoA-120	Air Force Engineering Univ.
<i>Prediction of Exhaust Gas Temperature Margin Based on LSSVR</i>	<i>Prediction of Exhaust Gas Temperature Margin Based on LSSVR</i>	
Dai, Shaowu Chen, Qiangqiang	Naval Aviation Univ. Naval Aviation Univ.	

Dai, Hongde	Naval Aviation Univ.	Wa, Yutao	School of Information Sci. & Engineering, Northeastern Univ., China
▷ PMoA-121		Zhou, Cheng	Northeastern Univ.
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Li, Lu	Univ. of Sci. & Tech. Beijing	▷ PMoA-133	
Wang, Liming	Univ. of Sci. & Tech. Beijing	<i>High Precision Tuning Device of Microwave Cavity Filter Based on Hand-eye Coordination</i>	
Yang, Yongliang	Univ. of Sci. & Tech. Beijing	Yao, Chaolong	China Univ. of GeoSci.
Dong, Jie	Univ. of Sci. & Tech. Beijing, China	Yuan, Yan	China Univ. of GeoSci.
Yin, Yixin	Univ. of Sci. & Tech. Beijing, China	Li, Jie	China Univ. of GeoSci.
Cheng, Shusen	Univ. of Sci. & Tech. Beijing	Bi, Leyu	China Univ. of GeoSci.
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<i>A Knowledge-and-data-driven Soft Sensor for Predicting Air Preheater Rotor Deformation</i>		<i>A Diagnostic Model of Rectal Function Reconstruction Based on Wavelet Analysis and LVQ Neural Network</i>	
Xiao, Wang	Shandong Vocational College of Light Industry	Zan, Peng	Shanghai Univ.
▷ PMoA-123		Xue, Yingjie	School of Mechatronics Engineering & Automation of Shanghai Univ.
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Tang, Jian	Beijing Univ. of Tech.	Li, Li	Shanghai Univ.
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<i>Optimization Design of Protective Clothing Thickness Based on Finite Difference</i>		<i>Frequency Robustness of A Synthetic Network with Birhythmicity</i>	
Huang, Feifan	Univ. of Jinan	Liu, Yan	Henan Univ.
Zheng, Yanling	Univ. of JINAN	Wang, Pei	Henan Univ.
Li, Zhen	Univ. of Jinan	Chen, Aimin	Henan Univ.
Wang, Xin	Univ. of Jinan	▷ PMoA-136	
Wu, Honghua	Univ. of Jinan	<i>Negative Feedback and Time Delay Regulate P53 Oscillation in Response to DNA Damage</i>	
Liu, Cun	Jinan Central Hospital	Wang, Conghua	Shanghai Univ.
▷ PMoA-125		Xiang, Lan	Shanghai Univ.
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Su, Xiaoli	Univ. of Sci. & Tech. Beijing	Zhou, Jin	Shanghai Univ.
Zhang, Sen	Univ. of Sci. & Tech. Beijing	▷ PMoA-137	
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Xiao, Wendong	Univ. of Sci. & Tech. Beijing, Beijing, China	Song, Feiyang	Northwest Minzu Univ.
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Xiao, Shujun	Beijing Univ. of Chemical Tech.	Lu, Wenting	Northwest Minzu Univ.
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Zheng, Zhao	CASC	Jin, Jianghong	Beijing Municipality Inst. of Labour Protection
Zhang, Chao	Beijing Inst. of Space Long March Vehicle	Guo, Miao	Inst. of Integrated Tech. & Economics of Machinery Industry
Liu, Jiaqi	CASC	Xiong, Wenze	Inst. of Integrated Tech. & Economics of Machinery Industry
Liu, Xin	CASC	Li, Xinlei	Safety & Environmental Engineering Inst.
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Fan, Qingwu	Beijing Univ. of Tech.	Li, Heliang	Shanghai Inst. of Inspection & Technical Research
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Su, Caihong	Foshan Univ.	▷ PMoA-140	
Liu, Anwen	Foshan Univ.	<i>Research on Power Prediction of Photovoltaic Electric Field Based on Grey Model</i>	
Fang, Shengfeng	Foshan Univ.	Dong, Yali	Tianjin Polytechnic Univ.
Wang, Yanyan	Foshan Univ.	Zhang, Xuemin	Tsinghua Univ.
▷ PMoA-130		Deng, Mengxiao	Tianjin Polytechnic Univ.
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Li, Hao	Univ. of Jinan	Mei, Shengwei	Tsinghua Univ.
Wang, Qiang	Univ. of Jinan	▷ PMoA-141	
He, Fang	Univ. of Jinan	<i>CTCS-3 Train Control System, Target Speed Monitoring, Combinatorial Testing</i>	
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Wang, Sheng	Northeastern Univ.	Luo, Zhengwei	Beijing Jiaotong Univ.
Wang, Jinkuan	Northeastern Univ.	Tang, Tao	Beijing Jiaotong Univ.
Han, Yinghua	Department of College of Information Sci. & Engineering, Northeastern Univ., Shenyang	Gao, Shigen	Beijing Jiaotong Univ.
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<i>for Petrochemical Process</i>	Fu, Yimu	Economic & Tech. Research Inst.. State Grid
Gao, Dong		Shandong Electric Power Company
Zhang, Beike	Chang, Wenjing	State Grid Anhui Maintenance Company
Xu, Xin	Liu, Xin	State Grid Anhui Maintenance Company
Xiao, Yao	Huang, Jie	State Grid Anhui Maintenance Company
▷ PMoA-143	Xu, Lu	State Grid Shandong Maintenance Company
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Yu, Mingxing	Zhu, Xiaolong	Research Inst. of the State Grid
Zhu, Jiazheng		Shandong Electric Power Company Economic
Qiang, Dazhuang		Research Inst. of the State Grid
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Wang, Xin	Yue, Dong	Huazhong Univ. of Sci. & Tech.
Zhang, Jingjing	Hu, Songlin	Nanjing Univ. of Posts & Telecommunications
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Xiang, Hao		
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Hou, Meilin		Shandong Electric Power Company
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Jing, Tao	Wang, Junbo	City Univ. of Hong Kong
Meng, Qing-Hao	Yang, Xiaoguang	Acad. of Mathematics & Sys. Sci., Chinese
▷ PMoA-148		Acad. of Sci.
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▷ PMoA-149		
<i>Threat Estimation of Aerial Target Based on Extreme Learning Machine</i>		
Zhang, Shu-Li	Zhu, Guibing	Dalian Maritime Univ.
	Du, Jialu	Dalian Maritime Univ.
▷ PMoA-150		
<i>A Method of Bad Data Identification Based on Improved GSA Algorithm</i>		
Feng, Bin	Zhu, Guibing	Dalian Maritime Univ.
Han, Yinghua	Du, Jialu	Dalian Maritime Univ.
Song, Guofang		
Wang, Jinkuan		
▷ PMoA-151		
<i>Data-driven Model-free Adaptive Control of High Power Converters in Super-large-scale Energy Storage Station</i>		
Li, Xiangjun		Poster Session PMoB
Jia, Xue cui		July 29, 15:50–17:50
Yan, Shijie		Platform near the Century Convention Hall, 2nd Floor, Block 4
Wang, Shangxing		
▷ PMoA-152		
<i>Research on Modeling Method of Visualized Plane Topology in Electric Power System</i>		
Wu, Yanjuan	Chair: Yu, Li	Zhejiang Univ. of Tech.
Wang, Haoyue	Chair: Yu, Wensheng	Beijing Univ. of Posts & Telecommunications
Yang, Li	Chair: Zhang, Chenghui	Shandong Univ.
	Chair: Zhong, Yisheng	Tsinghua Univ.
	Chair: Zhou, Kemin	Shandong Univ. of Sci. & Tech.
▷ PMoB-01		
<i>A Novel Strategy of the Midpoint Potential Control for Three Level APF</i>		
	Fu, Yimu	Economic & Tech. Research Inst.. State Grid
		Shandong Electric Power Company
	Liu, Xin	State Grid Anhui Maintenance Company
	Chang, Wenjing	State Grid Anhui Maintenance Company
	Chu, Yidao	State Grid Anhui Maintenance Company
	Xu, Lu	State Grid Shandong Maintenance Company
	Wei, Xin	Shandong Electric Power Company Economic
	Zhao, Weixing	Research Inst. of the State Grid
▷ PMoB-02		Guizhou Electric Power Grid
<i>Power Smoothing Control of DC Microgrid Hybrid Energy Storage System Based on Fuzzy Control</i>		
	Ding, Ke	Jiangsu Univ.
	Li, Fengxiang	Jiangsu Univ.
	Zhang, Xionghui	Jiangsu Univ.
▷ PMoB-03		
<i>A Novel Single-phase-to-earth Fault Line Method in Small Current Grounding Systems</i>		
Zhang, Xi	Jiao, Shangbin	Xi'an Univ. of Tech.
Zheng, Zheng	Guo, Jingwen	Xi'an Univ. of Tech.
Zhang, Tao	Li, Yujun	Xi'an Univ. of Tech.
▷ PMoA-154	Xiao, Ting	Xi'an Univ. of Tech.
<i>Study on Compensation to Dead-time Effect of Three-level APF</i>		

▷ PMoB-04	Towards Distributed Stability Analytics of Dynamic Power Systems: A Phasor-Circuit Theory Perspective		
Yang, Peng	Tsinghua Univ.	Wang, Dong	South China Univ. of Tech.
Liu, Feng	Tsinghua Univ.	Yue, Xishun	South China Univ. of Tech.
Wang, Zhaojian	Tsinghua Univ.		
Ma, Shicong	China Electric Power Research Inst.		
▷ PMoB-05	Research Method of Identifying Transformer Inrush Current and Fault Current Based on VMD-HHT		
Jiao, Shangbin	Xi'an Univ. of Tech.	Li, Donglin	Northeastern Univ.
Yuan, Chang	Xi'an Univ. of Tech.	Fang, Xiaoke	Northeastern Univ.
Zhang, Qing	Xi'an Univ. of Tech.	Wang, Jianhui	Northeastern Univ.
		Xu, Jiacan	Northeastern Univ.
▷ PMoB-06	Numerical Simulation Analysis of Phase Change Materials Performance		
Zhao, Fei	Guangdong Univ. of Tech.	Hu, Li	Zhejiang Univ.
Li, Xuecong	Guangdong Univ. of Tech.	Ma, Jien	Zhejiang Univ.
Xu, Yang	Guangdong Univ. of Tech.	Fang, Youtong	Zhejiang Univ.
Lai, Loi Lei	Guangdong Univ. of Tech.		
▷ PMoB-07	Coordinated Damping Controller Design Based on the Gain Conservation Theorem (GCT)		
Xu, Shiyun	China Electric Power Research Inst.	Xu, Yuge	South China Univ. of Tech.
▷ PMoB-08	Calculation Method of Line Loss in Distribution Network Considering Distributed Generation		
Ru, Xuli	Jinan University	Mo, Huasen	South China Univ. of Tech.
Chen, Fang	University of Jinan	Chenli, Sun	South China Univ. of Tech.
		Luo, Fei	South China Univ. of Tech., Guangdong
▷ PMoB-09	Multi-Objective Optimization for Microgrid Considering Demand Side Management		
Yaghi, Malak	South China Univ. of Tech.	Sun, Kang-Kang	Jiangnan Univ.
Luo, Fei	South China Univ. of Tech., Guangdong	Hua, Chun-Jian	Jiangnan Univ.
El Fouany, Haydar	South China Univ. of Tech.	Xiong, Xuemei	Jiangnan Univ.
Liu, Junfeng	South China Univ. of Tech.		
Hu, Jiajian	South China Univ. of Tech.		
Zeng, Jun	South China Univ. of Tech.		
▷ PMoB-10	Modeling and Analysis of Transformer Fault Diagnosis		
Yang, Jing	Guizhou Univ.	Pan, Rui	Jiangnan Univ.
		Hua, Chun-Jian	Jiangnan Univ.
		Xiong, Xuemei	Jiangnan Univ.
▷ PMoB-11	Transformer Fault Diagnosis Based on Deep Brief Sparse Autoencoder		
Xu, Zhong	Guangzhou Power Supply Bureau Co., Ltd	Xu, Hao	Beijing Qihu Keji Co. Ltd
Mo, Wenxiong	Guangzhou Power Supply Bureau Co.,Ltd	Xiong, Anbin	Beijing Qihu Keji Co. Ltd
Wang, Yong	Guangzhou Power Supply Bureau Co., Ltd		
Luo, Simin	Guangzhou Power Supply Bureau Co., Ltd		
Liu, Tian	Guangzhou Power Supply Bureau Co., Ltd		
▷ PMoB-12	Two-Stage Load-Source Coordination for Multi-Microgrid System: A Joint Approach of Demand Response and Peer-to-Peer Transaction		
Fu, Min	Tongji Univ.	Li, Ye	Beijing Inst. of Tech.
Xu, Zhi-Yu	Tongji Univ.	Chen, Wenjie	Beijing Inst. of Tech.
Lyu, Xiaoyu	Tongji Univ.	You, Qing	Beijing Inst. of Tech.
Xu, Weisheng	Tongji Univ.	Sun, Yangyang	Beijing Inst. of Tech.
Wang, Ning	Tongji Univ.	Li, Jing	Beijing Inst. of Tech.
▷ PMoB-13	A Grid Connection Mechanism of Large-scale Distributed Energy Resources Based on Blockchain		
Shao, Weihui	Tongji Univ.	Sun, Jiale	China Univ. of GeoSci. (Wuhan)
Xu, Weisheng	Tongji Univ.	Wei, Longsheng	China Univ. of GeoSci.
Xu, Zhi-Yu	Tongji Univ.	Liu, Wei	China Univ. of GeoSci.
Liu, Bo	Tongji Univ.	Liu, Feng	China Univ. of GeoSci.
Zou, Henghua	Tongji Univ.	Wang, Min	China Univ. of GeoSci.(Wuhan)
		Yin, Xu	China Univ. of GeoSci. (Wuhan)
▷ PMoB-14	Image Classification Based on Transfer Learning of Convolutional Neural Network		
Wang, Yunyan	Huber Univ. of Tech.	Li, Jianian	HeiLongJiang Univ.
Wang, Chongyang	Huber Univ. of Tech.	Ma, Hui	Heilongjiang Univ.
Luo, Lengkun	Huber Univ. of Tech.	Lv, Yan	HeiLongJiang Univ.
Zhou, Zhigang	Huber Univ. of Tech.	Zhao, Dongdong	Heilongjiang Univ.
		Liu, Yilun	HeiLongJiang Univ.
▷ PMoB-15	The Weighted Multiple Meta-Models Stacking Method for Regression Problem		
Wang, Dong			
Yue, Xishun			
▷ PMoB-16	Optimization of the Channels Selection and Classification Accuracy Based on Maximum Mean Discrepancy in BCI System		
Li, Donglin			
Fang, Xiaoke			
Wang, Jianhui			
Xu, Jiacan			
▷ PMoB-17	Defect Recognition of Insulators on Catenary via Multi-Oriented Detection and Deep Metric Learning		
Hu, Li			
Ma, Jien			
Fang, Youtong			
▷ PMoB-18	Imbalanced Learning of Weighted Extreme Learning Machines Ensemble Algorithm in Wastewater Treatment Plant Fault Diagnosis		
Xu, Yuge			
Mo, Huasen			
Chenli, Sun			
Luo, Fei			
▷ PMoB-19	Research on Spatial Arc Fitting Method Based on RANSAN Algorithm		
Sun, Kang-Kang			
Hua, Chun-Jian			
Xiong, Xuemei			
▷ PMoB-20	Shape Context Stereo Matching Method Based on Texture Features		
Pan, Rui			
Hua, Chun-Jian			
Xiong, Xuemei			
▷ PMoB-21	Research on Machine Vision-based Reading Method for Pointer Meters		
Xu, Hao			
Xiong, Anbin			
▷ PMoB-22	Optical Unmarked Motion Capture Technology Based on Depth Network and Binocular Vision		
Li, Ye			
Chen, Wenjie			
You, Qing			
Sun, Yangyang			
Li, Jing			
▷ PMoB-23	Anti-Occlusion Correlation Filter Tracking Based on Multi-Peaks Response		
Sun, Jiale			
Wei, Longsheng			
Liu, Wei			
Liu, Feng			
Wang, Min			
Yin, Xu			
▷ PMoB-24	Finger Vein Feature Extraction Based on Improved Maximum Curvature Description		
Li, Jianian			
Ma, Hui			
Lv, Yan			
Zhao, Dongdong			
Liu, Yilun			
▷ PMoB-25	Facial Expression Recognition Using Convolutional Neural Network on Graphs		
Wu, Chenhui			
Chai, Li			
Yang, Jun			

Sheng, Yuxia	Wuhan Univ. of Sci. & Tech.	<i>Particle Filtering</i>	China Univ. of GeoSci. (Wuhan)
▷ PMoB-26		Zhen, Lijun	College of School of Automation, China Univ. of GeoSci., Wuhan, China, 430074
<i>Cervical Cell Recognition Based on the Leave-one-out Feature Selection Algorithm</i>		Guo, Hui	China Univ. of GeoSci. (Wuhan)
Zhao, Li	Tianjin Univ.	Huang, Shun	China Univ. of GeoSci.(Wuhan)
Dong, Na	Tianjin Univ.	Xia, Wei	China Univ. of GeoSci.
Chang, Jianfang	Tianjin Univ.	Hu, Cong	China Univ. of GeoSci. (Wuhan)
▷ PMoB-27			
<i>An Interpretable Classifier with Linear Discriminant Analysis Based on AFS Theory</i>			
Deng, Yingjie	Dalian Univ. of Tech.	▷ PMoB-37	
Liu, Xiaodong	Dalian Univ. of Tech.	<i>A Classification Model for Schizophrenia Based on Brain FMRI and Dynamic Functional Connectivity Network</i>	
Xin, Chenyang	Dalian Univ. of Tech.	Liu, Peng	Southeast Univ.
Jia, Wenjuan	Dalian Univ. of Tech.	Mei, Xue	Nanjing Tech Univ.
▷ PMoB-28		Fei, Shumin	Southeast Univ.
<i>Multi-Features Fusion Based on Boolean Map for Video Saliency Detection</i>			
Wei, Longsheng	China Univ. of GeoSci.	▷ PMoB-38	
Wang, Min	China Univ. of GeoSci.(Wuhan)	<i>Classification between Focal and Non Focal EEG Signals Based on Signal Processing and Neural Networks</i>	
Liu, Wei	China Univ. of GeoSci.	Zeng, Wei	Longyan Univ.
Wang, Xinmei	China Univ. of GeoSci.	Li, Mengqing	Longyan Univ.
Sun, Jiale	China Univ. of GeoSci. (Wuhan)	Yuan, Chengzhi	Univ. of Rhode Island
Yin, Xu	China Univ. of GeoSci. (Wuhan)	Wang, Qinghui	Longyan Univ.
▷ PMoB-29		Liu, Fenglin	Longyan Univ.
<i>Scalable Robust Spectral Ensemble Clustering</i>		Wang, Ying	Longyan Univ.
Liang, Yinian	Guangdong Univ. of Tech.	▷ PMoB-39	
Ren, Zhigang	Guangdong Univ. of Tech.	<i>Crowd Counting with Segmentation Map Guidance</i>	
Wu, Zongze	Guangdong Univ. of Tech.	Xu, Hao	Southeast Univ.
Zeng, Deyu	Guangdong Univ. of Tech.	Zheng, Chengyao	Southeast Univ.
▷ PMoB-30		Nie, Yuncong	SouthEast Univ.
<i>A Convenient and Extensible Offline Chinese Speech Recognition System Based on Convolutional CTC Networks</i>		Xia, Siyu	Southeast Univ.
Gong, Shuai	Univ. of Sci. & Tech. of China	▷ PMoB-40	
Chang, Renkai	China Water Sunny Data Tech. Company	<i>SeqNet: An Interest Point Detector Based on Unsupervised Learning</i>	
Hao, Tuo	Univ. of Sci. & Tech. of China	Lin, Jingyi	Guangdong Univ. of Tech.
Wu, Guodong	China Water Sunny Data Tech. Company	Hu, Xiaorui	Guangdong Univ. of Tech.
Wang, Yong	Univ. of Sci. & Tech. of China	Li, Dong	Guangdong Univ. of Tech.
▷ PMoB-31		Zhang, Yun	Guangdong Univ. of Tech.
<i>Unstructured Lane Identification Based on Hough Transform and Improved Region Growing</i>		▷ PMoB-41	
Huang, Tianpeng	Southwest Jiaotong Univ.	Hu, Xiaorui	Guangdong Univ. of Tech.
Wang, Zhikai	Southwest Jiaotong Univ.	Li, Dong	Guangdong Univ. of Tech.
Dai, Xi	Southwest Jiaotong Univ.	Zeng, Xianxian	Guangdong Univ. of Tech.
Huang, Deqing	Southwest Jiaotong Univ.	Lin, Jingyi	Guangdong Univ. of Tech.
Su, Hu	Southwest Jiaotong Univ.	Zhang, Yun	Guangdong Univ. of Tech.
▷ PMoB-32		▷ PMoB-42	
<i>Incomplete Data Fuzzy C-means Method Based on Spatial Distance of Sample</i>		<i>Adaptive Convolutional Sparse Coding with Weighted L1 Norm</i>	
Cao, Jingyi	Dalian Univ. of Tech.	Qiu, Jiale	Nanjing Univ. of Posts & Telecommunications
Zhong, Chongquan	Dalian Univ. of Tech.	Yang, Min	Nanjing Univ. of Posts & Telecommunications
Li, Dan	Dalian Univ. of Tech.	▷ PMoB-43	
▷ PMoB-33		<i>EEG-Based Odor Recognition Using Channel-Frequency Convolutional Neural Network</i>	
<i>Convolutional Gate Recurrent Unit for Video Facial Expression Recognition in the Wild</i>		Zhang, Xiaonei	Tianjin Univ.
Kang, Kai	Shandong Univ.	Hou, Huirang	Tianjin Univ.
Ma, Xin	Shandong Univ.	Meng, Qing-Hao	Tianjin Univ.
▷ PMoB-34		▷ PMoB-44	
<i>On the Adaptive Selection of the Cutoff Distance and Cluster Centers Based on CFSFDP</i>		<i>The Method of Edge Detection Based on Interval Type-2 FCM</i>	
Sun, Longlong	Anhui Polytechnic Univ.	Liang, Yan-Ming	Xi'an Univ. of Tech.
Jiang, Ming	Anhui Polytechnic Univ.	Liu, Qian	Xi'an Univ. of Tech.
Ge, Yuan	Anhui Polytechnic Univ.	Wu, Kangqi	Xi'an Univ. of Tech.
▷ PMoB-35		▷ PMoB-45	
<i>Research on Watermark Tampering Blind Recognition Algorithm Based on Recognition Factor</i>		<i>Recognition of Dangerous Driving Behaviors Based on Support Vector Machine Regression</i>	
Zhao, Jingyuan	Harbin Engineering Univ.	Wang, Fanyu	Shandong Univ. of Sci. & Tech.
Yu, Lijun	Harbin Engineering Univ.	Zhang, Junyou	Shandong Univ. of Sci. & Tech.
Hu, Yukun	Harbin Engineering Univ.	Li, Sixian	Shandong Univ. of Sci. & Tech.
Liu, Zhilin	Harbin Engineering Univ.	▷ PMoB-46	
▷ PMoB-36		<i>A Fast Image/Video Dehazing Algorithm Based on Modified Atmospheric Veil</i>	
<i>Target Tracking Algorithm Based on Convolutional Neural Network and</i>		Liu, Kang	Beijing Inst. of Tech.
		Bai, Yongqiang	Beijing Inst. of Techonlogy
		Gao, Zhenwei	Beijing Inst. of Tech.
		▷ PMoB-47	

<i>Activity Recognition from Mobile Phone Using Deep CNN</i>	Man, Junyi Zhu, Jinrong Cao, Langcai	Xiamen Univ. Xiamen Univ. Xiamen Univ.
Wu, Wei Zhang, Yuan	Inner Mongolia Univ. Inner Mongolia Univ.	
▷ PMoB-48		
<i>Template Selection and Update for Biometric Recognition Systems with Nearest Neighbor Classifier</i>		
Yue, Feng Chen, Xi	Beijing Inst. of New Tech. Application Hebut	Univ. of Sci. & Tech. of China Univ. of Sci. & Tech. of China
▷ PMoB-49		
<i>Research on Cloud-to-Ground Separation Algorithms Based on Satellite Cloud Images</i>		
Zhang, Jun Liu, Ke Ke Hou, Jinyi	Tianjin Univ. Tianjin Univ. Tianjin Univ.	Peking Univ. Peking Univ. Peking Univ.
▷ PMoB-50		
<i>Research on the Detection of the UAV Remote Sensing Chili Images Based on Superpixel Segmentation and SVM</i>		
Zhang, Di Pan, Feng Xing, Boyang An, Qichao Wang, Rui Diao, Qi	Beijing Inst. of Tech. Beijing Inst. of Tech. Automation BIT Beijing Inst. of Tech. Beijing Inst. of Tech.	Xiangtan Univ. Xiangtan Univ.
▷ PMoB-51		
<i>A Vehicle Recognition Method Based on Multi-Camera Information</i>		
Zhou, Chunyue Fan, Tianyue	Beijing Jiaotong Univ Beijing Jiaotong Univ	
▷ PMoB-52		
<i>Image Defogging Combined with Compensation of High Lighted Areas</i>		
Xia, Lianghua Wu, Jin	Wuhan Univ. of Sci. & Tech. Wuhan Univ. of Sci. & Tech.	
▷ PMoB-53		
<i>DOAFT: Infrared and Visual Image Registration Based on Dominant Orientation Align Feature Transform</i>		
Wang, Shentao Xi, Peili Cai, Yunze	Shanghai Jiao Tong Univ. Satellite Engineering Shanghai Jiao Tong Univ.	
▷ PMoB-54		
<i>Discriminative Competitive Representation for Image Classification</i>		
Ma, Zhongli Xue, Qinlin Jiang, Tao She, Jing Li, Zuoyong	Chengdu Univ. of Information Tech. Harbin Engineering Univ. Chengdu Univ. of Information Tech. Harbin Engineering Univ. Mingjiang Univ.	
▷ PMoB-55		
<i>A Fast Image Matching Approach for Real-Time Embedded Systems</i>		
Zhang, Haolin Bian, Houqin	Shanghai Univ. of Electric Power Shanghai Univ. of Electric Power	
▷ PMoB-56		
<i>An Automatic Detection and Recognition Method for Pointer-type Meters in Natural Gas Stations</i>		
Huang, Yan Dai, Xuyang Meng, Qing-Hao	Tianjin Univ. Tianjin Univ. Tianjin Univ.	
▷ PMoB-57		
<i>Image Thresholding Segmentation Based on Oriented Genetic Algorithm and Maximum Entropy</i>		
Fan, Qingwu Li, Lanbo Chen, Guanghuang Zhou, Xinqi	Beijing Univ. of Tech. Beijing Univ. of Tech. Beijing Univ. of Tech. Beijing Univ. of Tech.	
▷ PMoB-58		
<i>Infrared Dim and Small Target Detection and Tracking Based on Single Multi-Frame Algorithm under Sea Clutter Background</i>		
Zhao, Ting Wang, Shentao Cai, Yunze Cao, Yaoxin	Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Inst. of Spaceflight Control Tech.	
▷ PMoB-59		
<i>Multi-step Community Evolution Prediction Methods via Marcov Chain and Classifier Chain</i>		
	Hao, Jingyi Hao, Xinyu Wang, Jiang Yang, Shuangming Deng, Bin	Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ.
▷ PMoB-60		
<i>Incentive Stochastic Stackelberg Games with Measurement Feedback Control</i>		
Ye, Yuanyang Ji, Haibo		Univ. of Sci. & Tech. of China Univ. of Sci. & Tech. of China
▷ PMoB-61		
<i>Observer Selection for Source Identification on Complex Networks</i>		
Shi, Chaoyi Zhang, Qi Chu, Tianguang		Peking Univ. Peking Univ. Peking Univ.
▷ PMoB-62		
<i>基于深度强化学习的视觉目标跟踪</i>		
<i>Visual Object Tracking Based on Deep Reinforcement Learning</i>		
Wang, Dongli Zhou, Yan		Xiangtan Univ. Xiangtan Univ.
▷ PMoB-63		
<i>Detection of IoT Botnet Based on Deep Learning</i>		
Liu, Junyi Liu, Shiyue Zhang, Sihua		Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.
▷ PMoB-64		
<i>Object Detection of UAV for Anti-UAV Based on Improved YOLO V3</i>		
Hu, Yuanyuan	Huazhong Inst. of Electro-Optics-Wuhan National Research Center for Optoelectronics	
▷ PMoB-65		
<i>Multi-label Classification of Technical Articles Based on Deep Neural Network</i>		
Zhao, Qiuhan Yang, Wenchuan		Beijing Univ. of Posts & Telecommunications Beijing Univ. of Posts & Telecommunication
▷ PMoB-66		
<i>Generating Dataset for Object Recognition from Virtual World</i>		
Sun, Yangyang Chen, Wenjie Li, Jing Li, Ye Xu, Huijuan		Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.
▷ PMoB-67		
<i>Object Detection Based on DenseNet and RPN</i>		
Li, Jing Chen, Wenjie Sun, Yangyang Li, Ye Peng, Zhihong		Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.
▷ PMoB-68		
<i>Hybrid Model of Air Quality Prediction Using K-Means Clustering and Deep Neural Network</i>		
Ao, Dun Cui, Zheng Gu, Deyu		Beijing Univ. of Tech. Beijing Univ. of Tech. Beijing Univ. of Tech.
▷ PMoB-69		
<i>A New Convolutional Neural Network for Motor Imagery Classification</i>		
Zhang, Ruilong Zong, Qun Zhao, Xinyi		Tianjin Univ. Tianjin Univ. Tianjin Univ.
▷ PMoB-70		
<i>Behavior of A Hippocampal Spiking Network and FPGA Implementation</i>		
Hao, Jingyi Hao, Xinyu Wang, Jiang Yang, Shuangming Deng, Bin		Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ.

Yu, Haitao	Tianjin Univ.	<i>Two-step Convolutional Neural Network for Image Defect Detection</i>
▷ PMoB-71 <i>Prediction of PM2.5 Concentration Based on CEEMD-LSTM Model</i>	Zhang, Mei Wu, Jinglan Yuan, Peng Zhu, Jinhui	South China Univ. of Tech. South China Univ. of Tech. South China Univ. of Tech. Robot & Intelligent Research Center
Li, Jiangeng Shen, Jianing	Beijing Univ. of Tech. Beijing Univ. of Tech.	
▷ PMoB-72 <i>Detection and Positioning of Surface Defects on Galvanized Sheet Based on Improved MobileNet V2</i>	Pan, Qiushi Guo, Yutong Wang, Zhiliang	Univ. of Sci. & Tech. Beijing Univ. of Sci. & Tech. Beijing Univ. of Sci. & Tech. Beijing
Shen, Yuan Sun, Hui Xu, Xiao Zhou, Jing	School of Electrical Engineering, Zhejiang Univ. Zhejiang Univ. Zhejiang Univ. School of Electrical Engineering, Zhejiang Univ.	
▷ PMoB-73 <i>RHNet: Lightweight Dilated Convolutional Networks for Dense Objects Counting</i>	Han, Yifeng Han, Rui Liu, Li Mei, Jingcheng Qi, Donglian	Zhejiang Univ. State Grid Zhejiang Power Co., Ltd State Grid Zhejiang Power Co., Ltd Zhejiang Univ. Zhejiang Univ.
Yu, Rui Xu, Xiangyang Shen, Yexiong	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Institute of Tech.	
▷ PMoB-74 <i>A Mask RCNN Based Automatic Reading Method for Pointer Meter</i>	Zhang, Pengzhen Deng, Bin Guo, Xinmeng Wang, Jiang Yu, Haitao	Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ.
Fang, Yixiao Dai, Yan He, Guoli Qi, Donglian	Zhejiang Univ. State Grid Zhejiang Power Co., Ltd Zhejiang Univ. Zhejiang Univ.	
▷ PMoB-75 <i>Real-time Human Segmentation Using Pose Skeleton Map</i>	Jiang, Dazhi Wu, Huaijun He, Xing	Shanghai Jiao Tong Univ. JiangSu Power Design Inst. Co., LTD Shanghai Jiao Tong Univ.
Chen, Xi Zhou, Ziqiang Ying, Ying Qi, Donglian	Zhejiang Univ. State Grid Zhejiang Power Co., Ltd Zhejiang Univ. Zhejiang Univ.	
▷ PMoB-76 <i>An Adaptive Corner Detection Method Based on Deep Learning</i>	Wen, Chenrui Hong, Minjie Yang, Xinhao Jia, Juncheng	Soochow Univ. Soochow Univ. Soochow Univ. Soochow Univ.
Wang, Liang Han, Kesheng Sun, Hongfei	Xiamen Univ. Xiamen Univ. Xiamen Univ.	
▷ PMoB-77 <i>Research on Target Detection and Recognition Algorithm Based on Deep Learning</i>	Han, Xuewei Zhang, Guoshan Wang, Xinbo	Tianjin Univ. Tianjin Univ. Tianjin Univ.
Wang, Hui Liu, Chaoda Yu, Lijun Zhao, Jingyuan	Harbin Engineering Univ. Harbin Engineering Univ. Harbin Engineering Univ. Harbin Engineering Univ.	
▷ PMoB-78 <i>Human Posture Recognition and Fall Detection Using Kinect V2 Camera</i>	Xu, Yifeng Chen, Juan Yang, Qiaoning Guo, Qing	Beijing Univ. of Chemical Tech. Beijing Univ. of Chemical Tech. Beijing Univ. of Chemical Tech. Univ. of Electronic Sci. & Tech. of China
▷ PMoB-79 <i>Aerial Unstructured Road Segmentation Based on Deep Convolution Neural Network</i>	Lin, Jingyi Guo, Zijian Li, Dong Hu, Xiaorui Zhang, Yun	Guangdong Univ. of Tech. Guangdong Univ. of Techology Guangdong Univ. of Tech. Guangdong Univ. of Tech. Guangdong Univ. of Tech.
Wang, Rui Pan, Feng An, Qichao Diao, Qi Feng, Xiaoxue	Beijing Inst. of Tech. Beijing Inst. of Tech. BIT Beijing Inst. of Tech. Beijing Inst. of Tech.	
▷ PMoB-80 <i>Author Recognition of Fine-Art Paintings</i>	Wang, Xiaodong Kang, Yu Cao, Yang	Univ. of Sci. & Tech. of China Univ. of Sci. & Tech. of China Univ. of Sci. & Tech. of China
Bai, Rui Huang, Ling Zhao, Kai Qi, Donglian Wang, Qiao	Zhejiang Univ. State Grid Beijing Electric Power Corporation State Grid Electric Power Corporation Zhejiang Univ. Zhejiang Univ.	
▷ PMoB-81 <i>Target Detection Based on Improved Mask Rcn in Service Robot</i>	Li, Yudi Wu, Aiguo Dong, Na Han, Junqing Lu, Zhen	Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ.
Shi, Jie Zhou, Yali Xia, Weijie Zhang, Qizhi	Beijing Information Sci. & Tech. School Beijing Information Sci. & Tech. Univ. Beijing Information Sci. & Tech. School Beijing Information Sci. & Tech. Univ.	
▷ PMoB-82	<i>Research and Application of Question Answering System in the Field of Air Traffic Control</i>	

Jiang, Weiyu Xu, Qiucheng Wang, Xuan	The 28th Research Inst. of China Electronics Tech. Group Corporation	CETC 28 Inst. NNCS	▷ PMoB-102 <i>Research on Entity Mention Recognition Based on LSTM</i> Qin, Minghe Wang, Qing Lin Li, Yuan	Beijing Inst. of Tech. BIT
▷ PMoB-93 <i>Emotion Recognition Based on CNN</i>			▷ PMoB-103 <i>Deep Embedding GAN-based Model for Anomaly Detection on High-dimensional Sparse Data</i> Wang, Chaojun Dai, Yaping Dai, Wei	Beijing Inst. of Tech. Beijing Inst. of Tech. Allseeing Security
Cao, Guolu Ma, Yuliang Meng, Xiao Fei Gao, Yunyan Meng, Ming	Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. Hangzhou Dianzi Univ.	Tsinghua Univ. Tsinghua Univ.	▷ PMoB-104 <i>End-to-End Model Based on Bidirectional LSTM and CTC for Segmentation-free Traditional Mongolian Recognition</i> Wang, Weiyuan Wei, Hongxi Zhang, Hui	Inner Mongolia Univ. Inner Mongolia Univ. Inner Mongolia Univ.
▷ PMoB-94 <i>Building Context-related Dialogue Systems Based on Chinese-Script-Dialogue Corpus</i>	Ma, Pingshuo Li, Chun Wen	Tsinghua Univ. Tsinghua Univ.	▷ PMoB-105 <i>Global Attention Pyramid Network for Semantic Segmentation</i> Zhang, Na Li, Jun Li, Yongrui Du, Yang	Univ. of Sci. & Tech. of China Univ. of Sci. & Tech. of China Univ. of Sci. & Tech. of China Univ. of Sci. & Tech. of China
▷ PMoB-95 <i>An Accelerated Asynchronous Advantage Actor-critic Algorithm Applied in Papermaking</i>	Wang, Xuechun Zhuang, Zhiwei Zou, Luobao Zhang, Weidong	Shanghai Jiao Tong Univ. Shanghai JiaoTong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.	▷ PMoB-106 <i>Self-Adaptive PCNN Based on Maximum Entropy and Its Application in Handwritten Digit Recognition</i> Zhu, Rui Cao, Weihua Zhang, Zheyi	CUG (China Univ. of GeoSci.) China Univ. of GeoSci. China Univ. of GeoSci.
▷ PMoB-96 <i>Object Detection for Low-resolution Infrared Image in Land Battlefield Based on Deep Learning</i>	Zheng, Guangdi Wu, Xinjian Hu, Yuanyuan Liu, Xiaofei	Huazhong Inst. of Electro-Optics-Wuhan National Research Center for Optoelectronics Huazhong Inst. of Electro-Optics-Wuhan National Research Center for Optoelectronics Huazhong Inst. of Electro-Optics-Wuhan National Research Center for Optoelectronics Huazhong Inst. of Electro-Optics-Wuhan National Research Center for Optoelectronics	▷ PMoB-107 基于卷积神经网络与高斯混合建模的红外弱小目标检测方法 <i>Real-time Detection Method of Infrared Weak Target Based on Convolutional Neural Network and Gaussian Mixture Modeling</i> Lou, Kang Zhu, Zhiyu	Jiangsu Univ. of Sci. & Tech. Jiangsu Univ. of Sci. & Tech.
▷ PMoB-97 <i>A Deep Semantic Matching Network for Answer Selection</i>	Li, Yongrui Li, Hongguang Li, Jun Zhang, Na Yuan, Guorui	Univ. of Sci. & Tech. of China Univ. of Sci. & Tech. of China	▷ PMoB-108 <i>A Text Categorization Method Using Graph Convolutional Network Based on Sparse Representation</i> Yang, Kun Wang, Xiaoping Zheng, Ying	Huazhong Univ. of Sci. & Tech. Huazhong Univ. of Sci. & Tech. Huazhong Univ. of Sci. & Tech.
▷ PMoB-98 <i>LSTM-based Deep Learning Model for Civil Aircraft Position and Attitude Prediction Approach</i>	Yang, Kaiqiao Bi, Meina Liu, Yang Zhang, Yuxin	Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ.	▷ PMoB-109 <i>Synchronous Oscillations Influenced by Synaptic Dynamics in Visual Cortical Column Model</i> Ren, Yanxue Deng, Bin Hong, Chaofei	Tianjin Univ. Tianjin Univ. Tianjin Univ.
▷ PMoB-99 <i>Recognition Method of No-seedling Grids of Trays Based on Deep Convolutional Neural Network</i>	Xiao, Zhang Liu, Xingxing Tan, Yu Tian, Fang Yang, Shenghui Li, Baosheng	China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. China Agricultural Univ.	▷ PMoB-110 <i>Image Identification Method on High Speed Railway Contact Network Based on YOLO V3 and SENet</i> Chen, Qiang Liu, Li Han, Rui Qian, Jiaying Qi, Donglian	Zhejiang Univ. State Grid Zhejiang Power Co., Ltd State Grid Zhejiang Power Co., Ltd Zhejiang Univ. Zhejiang Univ.
▷ PMoB-100 <i>A Steganographic Scheme Based on Perceptual Loss and Feature Fusion</i>	Su, Yunzhi Zhu, Xinshan Sun, Biao Ren, Chao	Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ.	▷ PMoB-111 <i>Passivity Analysis for Neural Networks Perturbed by Poisson Noise and Gaussian Noise</i> Ma, Xiang Song, Bo Lin, Feng	Jiangsu Normal Univ. Jiangsu Normal Univ. Jiangsu Normal Univ.
▷ PMoB-101 基于GSA的递归RBF神经网络出水BOD预测模型	Ren, Zhong Ming Li, Wenjing Qiao, Junfei	Beijing Univ. of Tech. Beijing Univ. of Tech. Beijing Univ. of Tech., China	▷ PMoB-112 <i>Classification of Trash Types in Cotton Based on Deep Learning</i> Cai, Yueyue Wu, Jin Zhang, Chen	Wuhan Univ. of Sci. & Tech. Wuhan Univ. of Sci. & Tech. School of Information Sci. & Engineering
GSA-based Recurrent RBF Neural Network Effluent BOD Prediction Model			▷ PMoB-113 <i>Prediction of Bus Arrival Time Based on GPS Data: Taking No. 6 Bus in Huangdao District of Qingdao City as An Example</i> Zhang, Xiangru Liu, Zhaozhi	Shandong Univ. of Sci. & Tech. Shandong Univ. of Sci. & Tech.

- ▷ PMoB-114
An Improved Faster R-CNN for Devices Detection in Railway 4C System
 Ji, Yang Zhejiang Univ.
 Zhao, Kai State Grid Electric Power Corporation
 Zhang, Kunming State Grid Electric Power Corporation
 Qi, Donglian Zhejiang Univ.
 Li, Chaoyong Zhejiang Univ.
- ▷ PMoB-115
An LSTM-based Trajectory Estimation Algorithm for Non-cooperative Maneuvering Flight Vehicles
 Zhang, Xinran Harbin Inst. of Tech.
 He, Fenghua Harbin Inst. of Tech.
 Zheng, Tianyu Harbin Institute of Tech.
- ▷ PMoB-116
Relative Pose Estimation of Visual SLAM Based on Convolutional Neural Networks
 Ruan, Xiaogang Beijing Univ. of Technology
 Wang, Fei Beijing Univ. of Tech.
 Huang, Jing Beijing Univ. of Tech.
- ▷ PMoB-117
Dynamic Inversion PID Based Control Law Design for A Flying Wing Aircraft
 Jiang, Wei Northwestern Polytechnical Univ.
 Zhang, Weiguo Northwestern Polytechnical Univ.
 Shi, Jingping Northwestern Polytechnical Univ.
- ▷ PMoB-118
Mission-oriented Optimization Research of Aircraft Control Allocation with Multiple Control Surfaces
 Lin, Chuanjian Northwestern Polytechnical Univ.
 Zhang, Weiguo Northwestern Polytechnical Univ.
 Shi, Jingping Northwestern Polytechnical Univ.
- ▷ PMoB-119
ADRC Vs LADRC for Quadrotor UAV with Wind Disturbances
 Liang, Haobo School of Aerospace Engineering, Beijing Inst. of Tech.
 Xu, Yong Beijing Inst. of Tech.
 Yu, Xiang Beijing Inst. of Tech.
- ▷ PMoB-120
Cascade Active Disturbance Rejection Control for Quadrotor UAV
 Xu, Linxing Hunan Univ. of Tech.
 Ma, Hongjun Northeastern Univ.
- ▷ PMoB-121
Combined Proportional Navigation Law for Intercepting High-speed Maneuvering Targets Based on MPSP
 Shen, Lianjie Xi'an Modern Control Tech. Research Inst.
 Wang, Yongzhou Xi'an Modern Control Tech. Research Inst.
 Hao, Feng Xi'an Modern Control Tech. Research Inst.
- ▷ PMoB-122
Active Disturbance Rejection Control Design of the Yaw Channel for A Small-scale Helicopter Based on Backstepping
 Tang, Shuai Army Logistics Univ. of PLA
 Mao, Longbo Acad. of Sys. Engineering, Acad. of Military Sci.
 Liu, Guosong Army Service College
 Wang, Weijun Acad. of Sys. Engineering, Acad. of Military Sci.
- ▷ PMoB-123
Distributed Finite-time Formation Control for Quadrotors Based on Adaptive State Observer
 Dou, Liqian Tianjin Univ.
 Ma, Xiuyu Tianjin Univ.
 Yang, Chuang TianJin Univ.
 Du, Miaomiaoz Tianjin Univ.
 Wang, Xiaoting AVIC Xi'an Flight Automatic Control Research Inst.
- ▷ PMoB-124
Flexible Vibration Suppression Based on Positive Position Feedback Combined with Adaptive Controller for Spacecraft with Flexible Structure
 Dou, Liqian Tianjin Univ.
 Ji, Chunhui Tianjin Univ.
 Du, Hui Tianjin Univ.
 Zhang, Xiuyun Tianjin Univ.
 Liu, Wenjing Beijing Inst. of Control Engineering
- ▷ PMoB-125
Obstacle Avoidance Strategy for Quadrotor UAV Based on Improved Particle Swarm Optimization Algorithm
 Chen, Ziyang South China Univ. of Tech.
 Luo, Fei South China Univ. of Tech., Guangdong
 Zhai, Chunjie South China Univ. of Tech.
- ▷ PMoB-126
Fractional PID Controller Tuned for Aerodynamic Missile System with Real-Coded Genetic Algorithm
 Wang, Mingyang Northwestern Polytechnical Univ.
 Gao, Ruizhou Sci. & Tech. on Electro-Optic Control Laboratory
- ▷ PMoB-127
基于快速终端滑模的空间翻滚目标位姿同步跟踪控制研究
Attitude and Orbital Synchronous Tracking Control Method of Approaching Space Tumbling Target Based on Fast Terminal Sliding Mode
 Chen, Zhijun National Univ. of Defense Tech.
 Zhao, Yong National Univ. of Defense Tech.
 Bai, Yuzhu National Univ. of Defense Tech.
 Ran, Dechao National Univ. of Defense Tech.
 Cheng, Zhaoyang National Univ. of Defense Tech.
- ▷ PMoB-128
Distributed Finite-Time Formation Control of Multi-Quadrotor Based on Leader-following Structure
 Dou, Liqian Tianjin Univ.
 Su, Xiaotong Tianjin Univ.
 Wang, Dandan Tianjin Univ.
 Wang, Yueping AVIC Xi'an Flight Automatic Control Research Inst.
- ▷ PMoB-129
Natural Fly-around Orbital Maneuvers Strategy for GEO Spacecraft Considering Illumination Constraints
 Zhao, Guangdong Harbin Inst. of Tech.
 Guo, Yanning Harbin Inst. of Tech.
 Deng, Wudong Shanghai Inst. of Satellite Engineering, Shanghai
 Zhong, Weichao Shanghai Inst. of Satellite Engineering, Shanghai
 Gao, Zetian Shanghai Institute of Spacecraft Equipment
 Han, Peng Harbin Inst. of Tech.
- ▷ PMoB-130
Coverage Path Planning and Design of Mapping UAVs Based on Particle Swarm Optimization Algorithm
 Wang, Shouqi Beijing Inst. of Tech.
 Bai, Yongqiang Beijing Inst. of Techonlogy
 Zhou, Chao Beijing Inst. of Tech.
- ▷ PMoB-131
Formation Control for Multi-UAVs System Based on Event-triggered Mechanism
 Ji, Lei Nanjing Univ. of Posts & Telecommunications
 Fan, Chunxia Nanjing Univ. of Posts & Telecommunicaitons
 Qiao, Yan Nanjing Univ. of Posts & Telecommunications
 Xiang, Hao Nanjing Univ. of Posts & Telecommunications
- ▷ PMoB-132
Guidance Law with Impact Angle and Impact Time Constraints
 An, Binghe Huazhong Univ. of Sci. & Tech.
 Wang, Yongji Huazhong Univ. of Sci. & Tech.
 Liu, Lei Huazhong Univ. of Sci. & Tech.
- ▷ PMoB-133
Extended State Observer-based Integrated Guidance and Control with Impact Angle Constraint and Input Saturation
 Liu, Wangkui Harbin Inst. of Tech.
 Wei, Yiyin Harbin Inst. of Tech.
 Duan, Guangren Harbin Inst. of Tech.
 Hou, Mingzhe Harbin Inst. of Tech.
- ▷ PMoB-134
Deterministic Policy Gradient with Advantage Function for Fixed Wing UAV Automatic Landing
 Yuan, Xin Southeast Univ.
 Sun, Yuewen Southeast Univ.
 Wang, Yuanda Southeast Univ.
 Sun, Changyin Southeast Univ.
- ▷ PMoB-135
Adaptive Hybrid Steering Law of Variable Speed Control Moment Gyroscopes Based on Dual-control Mode

Cheng, Zhaoyang Sheng, Tao Chen, Zhijun	National Univ. of Defense Tech. National Univ. of Defense Tech. National Univ. of Defense Tech.	Chen, Hong Guo, Lulu Hu, Yunfeng	Jilin Univ. Jilin Univ. Jilin Univ.
▷ PMoB-136			
<i>Disturbance Observer-Based Attitude Control for Hypersonic Vehicles with Input Constraint</i>			
Han, Xudong Qiao, Jianzhong Du, Qingyu Chen, Yicheng	Beihang Univ. Beihang Univ. Beijing Aerospace Automatic Control Inst. Sci. & Tech. on Aerospace Intelligent Control Laboratory	Zhou, Linna Chen, Liming Ma, Xiaoping Yang, Chunyu	China Univ. of Ming & Tech. Chinese Univ. of Mining & Tech. China Univ. of Mining & Tech. China Univ. of Mining & Tech.
▷ PMoB-137			
<i>Backstepping Based Nonlinear Integral Sliding Mode Control for Quadrotors under External Disturbances</i>			
Zhang, Siyu Chen, Cong	Beijing Electro-mechanical Engineering Inst. Beijing Electro-mechanical Engineering Inst.	Ma, Wenlong Fu, Minyue Zhang, Huanshui	Shandong Univ. The Univ. of Newcastle Shandong Univ.
▷ PMoB-138			
<i>An UAV Carrying A Load Based on Three-dimensional Nested Saturated Control Method</i>			
Qian, Minglou Cao, Ke-Cai	Nanjing Univ. of Posts & Telecommunications Nanjing Univ. of Posts & Telecommunications	Hong, Yiguang	Chinese Acad. of Sci.
▷ PMoB-139			
<i>Teaching Elementary Linear Algebra for Automatic Control Theory</i>			
Wang, Yinhe	Guangdong Univ. of Tech.	Ming, Yang	Acad. of Mathematics & Sys. Sci., Chinese Acad. of Sci.
▷ PMoB-140			
<i>High Performance SM2 Elliptic Curve Cryptographic Processor over GF(p)</i>			
Hu, Xianghong Cai, Shuting Zhan, Ruidian Xiong, Xiaoming	Guangdong Univ. of Tech. Guangdong Univ. of Tech. Company of Chipeye Microelectronics Foshan Ltd Guangdong Univ. of Tech.	Hong, Yiguang	Chinese Acad. of Sci.
▷ PMoB-141			
<i>A Novel Intrusion Detection System Based on Extreme Machine Learning and Multi-voting Technology</i>			
Gao, Jianlei Chai, Senchun Zhang, Chen Zhang, Baihai Cui, Lingguo	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.	Lei, Yanpu Xu, Jinyu Zhou, Wei Sun, Weigao Wu, Yue Luo, Jia-Wei Zhang, Hai-Tao	Huazhong Univ. of Sci. & Techology Huazhong Univ. of Sci. & Tech. Huazhong Univ. of Sci. & Techology Huazhong Univ. of Sci. & Tech. Huazhong Univ. of Sci. & Tech. Huazhong Univ. of Sci. & Tech. Huazhong Univ. of Sci. & Tech.
▷ PMoB-142			
<i>Vulnerability Detection for Smart Grid Devices via Static Analysis</i>			
Zhang, Yanmiao Ji, Xiaoyu Cheng, Yushi Xu, Wenyuan	Zhejiang Univ. Zhejiang Univ. Zhejiang Univ. Zhejiang Univ.	Tu, Zhipeng Huang, Shijie Hong, Yiguang	AMSS Acad. of Math & Sys. Sci. Chinese Acad. of Sci.
▷ PMoB-143			
<i>Cuckoo-RPL: Cuckoo Filter Based RPL for Defending AMI Network from Blackhole Attacks</i>			
Zhang, Tianchen Zhang, Taimin Ji, Xiaoyu Xu, Wenyuan	Zhejiang Univ. Zhejiang Univ. Zhejiang Univ. Zhejiang Univ.	Xu, Yanping Lv, Junting Wu, Xiande Song, Ting Zhang, Qiang Xiang, Yanbing	Shanghai Inst. of Spaceflight Control Tech. Beijing Inst. of Spacecraft Sys. Engineering Sci. & Tech. on Complex Sys. Control & Intelligent Agent Cooperation Laboratory
▷ PMoB-144			
<i>Stock Selection Based on Extreme Gradient Boosting</i>			
Zhang, Xiaoyun Chen, Wanji	Nankai Univ. Nankai Univ.	Sun, Jun	Shanghai Key Laboratory of Space Intelligent Control Tech.
▷ PMoB-145			
<i>OIL DEMAND UNDER A CARBON DIOXIDE EMISSION CONSTRAINT</i>			
Yan, Wei Chang, Yuwen	Research Inst. of Petroleum Exploration & Development (RIPED), PetroChina Research Inst. of Petroleum Exploration & Development (RIPED), PetroChina	Liu, Yang Wang, Yingli Yang, Xiaoguang	Acad. of Mathematics & Sys. Sci., Chinese Acad. of Sci. Acad. of Mathematics & Sys. Sci., Chinese Acad. of Sci. Acad. of Mathematics & Sys. Sci., Chinese Acad. of Sci.
▷ PMoB-146			
<i>Robust H2/H∞ Filtering for General Nonlinear Stochastic Systems with Infinite Markov Jumps and Delay</i>			
Zhang, Linlin Hou, Ting	Shandong Univ. of Sci. & Tech. Shandong Univ. of Sci. & Tech.	Wang, Huai Fei Lu, Qiu Xiao, Min Jiang, Guoping	Nanjing Univ. of Posts & Telecommunications Automation School Nanjing Univ. of Posts & Telecommunications Nanjing Univ. of Posts & Telecommunications Nanjing Univ. of Posts & Telecommunications
▷ PMoB-147			
<i>Predictive Safety Control for Road Vehicles After A Tire Blowout(SCIS)</i>			
Wang, Fei	Jilin Univ. (Campus NanLing)	The Prediction of Bubble Trajectory Based on ACEMD Filter and	

Double-RBF

Tian, Huixin
Ren, Daixu
Shi, Ziyang
Li, Lei
▷ PMoB-158

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Tianjin Jingcheng Sci. & Tech. Development Co.,
Ltd

Analysis and Evaluation of Individual Performance in Team Task

Li, Xi
Mahmood, Arfan
Wang, Lin
Lin, Sien
Yang, Zhi
Wang, Xiaofan
Shanghai Jiao Tong Univ.
Shanghai Jiao Tong Univ.
Shanghai Jiao Tong Univ.
TalkingBrain Neuro-Tech. Inc
TalkingBrain Neuro Tech. Inc
Shanghai Jiaotong Univ.

Tuesday, July 30, 2019

PL6	8:30-9:30	Century Convention Hall, L2, Block 4	Xu, Chengzhong	Univ. Claude Bernard Lyon1
大会报告6				15:10-15:30
Plenary Lecture 6			<i>Stability of the Weakly Coupled Wave System with Hybrid Boundary Conditions</i>	
Chair: Chen, Jie		Tongji University	Zhu, Xianzheng	Sichuan Univ.
► PL-6	8:30-9:30			
<i>Automotive Powertrain Control: On-line Learning and Optimization</i>				
Shen, Tielong		Sophia University, Japan		
PL7	9:30-10:30	Century Convention Hall, L2, Block 4		
大会报告7				
Plenary Lecture 7				
Chair: Fu, Minyue		Guangdong University of Technology		
► PL-7	9:30-10:30			
<i>Learning-based Control: A Theory based on Robust Adaptive Dynamic Programming</i>				
Jiang, Zhong-Ping		New York University, USA		
PD2	10:50-12:20	Century Convention Hall, L2, Block 4		
专题研讨会2				
Panel Discussion 2				
Chair: Wu, Min		China University of Geosciences, Wuhan, China		
► PD-2	10:50-12:20			
优秀青年学者论坛—先进控制和智能系统				
<i>Forum of Young Outstanding Scholars on Advanced Control and Intelligent Systems</i>				
Chen, Mou		Nanjing University of Aeronautics and Astronautics, China		
Fu, Jun		Northeastern University, China		
Wu, Ai-Guo		Harbin Institute of Technology, Shenzhen, China		
Zhang, Wen'an		Zhejiang University of Technology, China		
DF3	13:30-15:30	Dongguan Hall, L2, Block 4		
发展论坛3				
Development Forum 3				
Chair: Pan, Quan		Northwestern Polytechnical University		
► DF-3	13:30-15:30			
<i>TCCT控制理论与应用教育工作组自动化与控制教育论坛</i>				
<i>Automation and Control Education</i>				
Zhang, Chenghui		Shandong University, China		
Liu, Ding		Xi'an University of Technology, China		
Li, Li		Tongji University, China		
Jiang, Zhong-Ping		New York University, USA		
TuA01	13:30-15:30	Room 3301, Block 3		
Regular Session: Distributed Parameter Systems (1)				
Chair: Wang, Jun-Min		Beijing Inst. of Tech.		
Co-Chair: Wu, Yongxin		UBFC/FEMTO-ST		
► TuA01-1	13:30-13:50			
<i>Output Feedback Stabilization of Non-local Wave Equation with Time Delay</i>				
Than, Aye Aye		Beijing Inst. of Tech.		
Wang, Jun-Min		Beijing Inst. of Tech.		
Guo, Ya-Ping		Beijing Inst. of Tech.		
► TuA01-2	13:50-14:10			
<i>Output Regulation of Wave Equation with General Disturbance</i>				
Wei, Jing		Shanxi Univ.		
► TuA01-3	14:10-14:30			
<i>Error Based Output Regulation for A 1-d Wave Equationwith A Tip Mass and Non-collocated Disturbance</i>				
Wu, Xiaohui		Shanxi Univ.		
Feng, Hongyinping		Shanxi Univ.		
► TuA01-4	14:30-14:50			
<i>LQG Control for Flexible Micro-grippers with Additional Integral Action</i>				
Wu, Yongxin		UBFC/FEMTO-ST		
Ramirez, Hector		FEMTO-ST/Univ. of Franche-Comte		
Le Gorrec, Yann		FEMTO-ST		
► TuA01-5	14:50-15:10			
<i>Simultaneous Identification of Velocity and Water Depth of Linear Water Waves.</i>				
Yu, Yang		South China Univ. of Tech.		
Pei, Hailong		South China Univ. of Tech.		
Xu, Chengzhong				
► TuA02	13:30-15:30	Room 3302, Block 3		
Regular Session: Nonlinear Systems and Control (5)				
Chair: Ma, Baoli				
Co-Chair: Xu, Dabo				
► TuA02-1	13:30-13:50			
<i>Path Following for the Uncoupled PVTOL Aircraft Based on the Backstepping Technique</i>				
Wang, Jie				
Ma, Baoli				
► TuA02-2	13:50-14:10			
<i>State Feedback Finite Time Stabilization for Continuous Time Switched Singular Systems with Quadratically Inner-Bounded Nonlinearities</i>				
Sun, Yuchen				
Ma, Shuping				
► TuA02-3	14:10-14:30			
<i>Modeling and Nonlinear Coordination Control of A Dual Drones Lifting System</i>				
Zhang, Peng				
Fang, Yongchun				
Liang, Xiao				
Lin, He				
► TuA02-4	14:30-14:50			
<i>Robust Visual Tracking Control of A Nonholonomic Mobile Robot with Depth-based Camshift</i>				
Zhao, Erhan				
Ma, Baoli				
► TuA02-5	14:50-15:10			
<i>Robust Attitude Regulation of Uncertain Rigid Spacecraft with Ignored Input Dynamics</i>				
Wu, Haiwen				
He, Jiafan				
Xu, Dabo				
TuA03	13:30-15:30	Room 3303, Block 3		
Regular Session: Hybrid Systems and DEDS				
Chair: Ma, Shuping				
Co-Chair: Ji, Yidao				
► TuA03-1	13:30-13:50			
<i>Observer-Based Finite-Time Stabilization for A Class of Continuous-Time Descriptor Switched Systems</i>				
Sun, Yuchen				
Tian, Jiaming				
Ma, Shuping				
► TuA03-2	13:50-14:10			
<i>New Stability Results for Discrete-time Switched Systems: A New Multiple Piecewise Convex Lyapunov Function Approach</i>				
Cui, Jiahao				
Chen, Xia				
Wang, Ruihua				
► TuA03-3	14:10-14:30			
<i>Extended Asynchronous Switching Control of Discrete-Time Switched Positive Linear Systems</i>				
Yang, Yake				
Liu, Jiao				
Yang, Dedong				
Li, Hongchao				
► TuA03-4	14:30-14:50			
<i>Stabilization of Switched Linear Uncertain Stochastic Systems</i>				
Chang, Yufang				
Zhai, Guisheng				
Fu, Bo				
Xiong, Lianglin				
► TuA03-5	14:50-15:10			

Finite-time Passive Control of Networked Semi-Markov Jump Systems with Time-varying Delays		
Ji, Yidao Wu, Wei	Univ. of Sci. & Tech. Beijing Inst. of Automation, Chinese Acad. of Sci.	15:10–15:30
► TuA03-6	Leader-follower Stochastic Differential Games under Partial Observation	15:10–15:30
Li, Zhipeng Fu, Minyue Cai, Qianqian Meng, Wei		
TuA04	Guangdong Univ. of Tech. The Univ. of Newcastle Guangdong Univ. of Tech. Guangdong Univ. of Tech.	Room 3305, Block 3
Regular Session: Intelligent Robots (2)		
Chair: Chen, Peng Co-Chair: Zheng, Gang	College of Electrical Engineering Zhejiang Univ. Inria Lille	13:30–15:30
► TuA04-1	Continuous Control of Wrist-Hand Prosthesis by Extracting Independent SEMG Signals from Cross-talk Muscle Groups	13:30–13:50
Tao, Duan Huang, Jian	Huazhong Univ. of Sci. & Tech. Huazhong Univ. of Sci. & Tech.	13:50–14:10
► TuA04-2	Closed-loop Control of Soft Robot Based on Machine Learning	14:10–14:30
Zhou, Yuan Ju, Mingda Zheng, Gang	Inria Inria Inria Lille	14:10–14:30
► TuA04-3	Lidar-based Traversable Region Detection in Off-road Environment	14:30–14:50
Liu, Tong Liu, Dongyu Yang, Yi Chen, Zhaowei	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.	14:30–14:50
► TuA04-4	Auto-alignment Design of Projection Robot	14:50–15:10
Shi, Linzhe Liu, Chuyan Zhao, Lin Yang, Shuaicong Chen, Siyan Wang, Simai	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Bit Beijing Inst. of Tech. Beijing Inst. of Tech.	14:50–15:10
► TuA04-5	Motor Imagination EEG Recognition Algorithm Based on DWT, CSP and Extreme Learning Machine	15:10–15:30
Kang, Wang Zhai, Di-Hua Xia, Yuanqing	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.	15:10–15:30
► TuA04-6	Torque Limitation Control of Industrial Manipulators Based on General Weighted Least Norm Method	15:10–15:30
Chen, Peng Xiang, Ji Zhu, Li Li, Zhenggang Chen, Li Li, Qinglei	College of Electrical Engineering Zhejiang Univ. Zhejiang Univ. Hangzhou Siasun Robot & Automation Co.Ltd Hangzhou Siasun Robot & Automation Co., Ltd Hangzhou Siasun Robot & Automation Co., Ltd Hangzhou Siansun Robot & Automation Co.,Ltd	15:10–15:30
TuA05	Room 3306, Block 3	13:30–15:30
Regular Session: Predictive Control (1)		
Chair: Guo, Hao Co-Chair: Zhao, Guanglei	Henan Inst. of Sci. & Tech. Yanshan Univ.	13:30–13:50
► TuA05-1	Multi-objective Optimization for Pure Electric Vehicle During A Car-following Process	13:30–13:50
Zhang, Sheng Zhuan, Xiangtao	Wuhan Univ. Wuhan Univ.	13:50–14:10
► TuA05-2	Gain Scheduled Reference Governor for Linear Constrained System and Its Application	13:50–14:10
Guo, Hao Kong, Xiaohong Yang, Wenqiang	Henan Inst. of Sci. & Tech. Henan Inst. of Sci. & Tech. Henan Inst. of Sci. & Tech.	13:50–14:10
► TuA05-3		14:10–14:30
Switching Model Predictive Control Based on Self-triggering Mechanism		
Yang, Shida Zhao, Guanglei	Yanshan Univ. Yanshan Univ.	14:30–14:50
► TuA05-4	Performance Assessment and Diagnosis for A SCR Denitrification System under Model Predictive Control	14:30–14:50
Xu, Yuanyuan Li, Yiguo Liu, Xichui Shen, Jiong	Southeast Univ. Southeast Univ. Southeast Univ. Southeast Univ.	14:30–14:50
► TuA05-5	Computing Continuous Time-Varying Matrices' Generalized Eigenvalues Using ZD (Zhang Dynamics) Method	14:50–15:10
Zhang, Yunong Ming, Liangjie Li, Chumin Huang, Huanchang Li, Zhonghua	Sun Yat-sen Univ. Sun Yat-sen Univ. Sun Yat-sen Univ. Sun Yat-sen Univ. Sun Yat-sen Univ.	14:50–15:10
TuA06	Room 3307, Block 3	13:30–15:30
Regular Session: Fault Diagnosis and Reliable Control (2)		
Chair: Wang, Jinzhi Co-Chair: Wen, Xiao-Qin	Peking Univ. South China Univ. of Tech.	13:30–13:50
► TuA06-1	Measuring the Horizontal Wind for Forest Fire Monitoring Using Multiple UAVs	13:30–13:50
Xing, Zhewen Zhang, Youmin Su, Chun-Yi Qu, Yaohong	Concordia Univ. Concordia Univ. Guangdong Univ. of Tech. Northwestern Polytechnical Univ.	13:30–13:50
► TuA06-2	Researching on HAZOP Information Standardization Based on Knowledge Ontology	13:50–14:10
Gao, Dong Xiao, Yao Zhang, Beike Chen, Xiaohan	BUCT Beijing Univ. of Chemical Tech. BUCT Beijing Univ. of Chemical Tech.	13:50–14:10
► TuA06-3	Krill Herd Optimization Based Fault Diagnosis for Hybrid Mechatronic System	14:10–14:30
Yu, Ming Liu, Xin Xiao, Chenyu Jin, Xiaozheng Wang, Hai Jiang, Canghua	Hefei Univ. of Tech. Hefei Univ. of Tech. Hefei Univ. of Tech. HeFei Univ. of Tech. Murdoch Univ. Hefei Univ. of Tech.	14:10–14:30
► TuA06-4	Fault-Tolerant Controller Based on Integral Sliding Mode with Prescribed Performance for Hypersonic Re-entry Vehicle	14:30–14:50
Guo, Fuhui Liu, Xiangdong Li, Xingsheng	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.	14:30–14:50
► TuA06-5	A Novel Rolling Bearing Fault Detection Method Based on Wavelet Transform and Empirical Mode Decomposition	14:50–15:10
Wen, Xiao-Qin You, Linru	South China Univ. of Tech. South China Univ. of Tech.	14:50–15:10
► TuA06-6	Robust Fault Detection for Second-order Multi-agent Systems on Directed Graph	15:10–15:30
Jia, Wenhao Wang, Jinzhi	Peking Univ. Peking Univ.	15:10–15:30
TuA07	Room 3308, Block 3	13:30–15:30
Regular Session: Signal Processing and Information Fusion (5)		
Chair: Hu, Guoqiang Co-Chair: Cao, Wei	Nanyang Technological Univ. China Univ. of GeoSci.	13:30–13:50
► TuA07-1	A Multiplication Optimization Level Set Algorithm for Image Segmentation	13:30–13:50
Wang, Lin Sun, Weiyu	Dalian Maritime Univ. Dalian Maritime Univ.	13:30–13:50

Han, Sen	Dalian Maritime Univ.	Wang, Liandong	Shanghai Polytechnic Univ.
► TuA07-2	13:50–14:10	Wang, Jianjun	Shanghai Polytechnic Univ.
<i>Distributed Estimation for Discrete-Time Interconnected Systems</i>			
Chen, Bo	Zhejiang Univ. of Tech.	Li, Shaoyuan	Shanghai Jiao Tong Univ.
Hu, Guoqiang	Nanyang Technological Univ.		
Ho, Daniel	City Univ. of Hong Kong		
Yu, Li	Zhejiang Univ. of Tech.		
► TuA07-3	14:10–14:30		
一种带有未知参数的机动目标跟踪算法			
<i>A Maneuvering Target Tracking Algorithm with Unknown Parameters</i>			
Liu, Lu	Harbin Engineering Univ.		
Zhou, Wei-Dong	Harbin Engineering Univ.		
► TuA07-4	14:30–14:50		
<i>A Variational Bayesian Algorithm for Extended Target Tracking with Unknown Measurement Noise</i>			
Ma, Tianli	XI'AN Technological Univ.		
Yan, Wang	Xi'an Technological Univ.		
Chen, Chaobo	College of Electronic Information Engineering, Xi'an Univ. of Tech.		
Cao, Kai	Xi'an Technological Univ.		
► TuA07-5	14:50–15:10		
<i>Fusing Optical Flow and Inertial Data for UAV Motion Estimation in GPS-denied Environment</i>			
Hou, Zhi	Tianjin Univ.		
Qi, Junlong	Tianjin Univ.		
Wang, Mingming	EFY Intelligent Control Co. Ltd		
► TuA07-6	15:10–15:30		
<i>Convex Relaxation with Log-Determinant Divergence-L1 Regularization for 3D Shape Reconstruction</i>			
Cao, Wei	China Univ. of GeoSci.		
Chen, Luefeng	China Univ. of GeoSci.		
Wu, Min	China Univ. of GeoSci.		
Pedrycz, Witold	Univ. of Alberta		
TuA08	13:30–15:30	Room 3309, Block 3	
Regular Session: Navigation and Guidance (5)			
Chair: Yang, Wenbo	Shanghai Polytechnic Univ.		
Co-Chair: Liu, Yue	DFH Satellite Co. LTD		
► TuA08-1	13:30–13:50		
<i>A Trajectory Re-planning Method for Multi-stage Rockets Based on Decision Classification</i>			
Ma, Haolei	Beijing Aerospace Automatic Control Inst.		
Li, Xuefeng	China Acad. of Launch Vehicle Tech.		
Huang, Hanbin	Beijing Aerospace Automatic Control Inst.		
► TuA08-2	13:50–14:10		
<i>Orbit Keeping Control Strategy Design for the Quasi-period Orbit with STK/Astrograph</i>			
Liu, Yue	DFH Satellite Co. LTD		
Jing, Wuxing	Harbin Inst. of Tech.		
Qian, Yingjing	Beijing Univ. of Tech.		
► TuA08-3	14:10–14:30		
<i>A UWB/Bluetooth Fusion Algorithm for Indoor Localization</i>			
Zhao, Chong	Beijing Inst. of Tech.		
Wang, Bo	Beijing Inst. of Tech.		
► TuA08-4	14:30–14:50		
<i>Research on MAV Indoor Localization and Yaw Estimation Algorithm Based on Onboard Ultrasonic Sensors</i>			
Feng, Xiaoke	Beihang Univ.		
Yang, Lingyu	Beihang Univ.		
Zhang, Jing	Beihang Univ.		
Mou, Yuhan	Beihang Univ.		
► TuA08-5	14:50–15:10		
<i>An Improved Robust Adaptive Kalman Filtering Algorithm</i>			
Jiang, Liuyang	Beihang Univ.		
Fu, Wenxing	China Aerospace Sci. & Industry Corp		
Zhang, Hai	BeiHang Univ.		
Li, Zheng	BeiHang Univ.		
Chi, Longyun	Beihang Univ.		
► TuA08-6	15:10–15:30		
<i>A Satellite Autonomous Navigation Semi-physical Simulation System Based on Multi-target Optical Sensor</i>			
Yang, Wenbo	Shanghai Polytechnic Univ.		
TuA09	13:30–15:30	Room 3311, Block 3	
Regular Session: Pattern Recognition (2)			
Chair: Zhang, Yilin			Xi'an Jiaotong Univ.
Co-Chair: Liu, Meiqin			Zhejiang Univ.
► TuA09-1	13:30–13:50		
<i>Music Main Melody Extraction by An Interval Pattern Recognition Algorithm</i>			
Wen, Ru			Xi'an Jiaotong Univ.
Chen, Kai			Rutgers Univ.
Xu, Kuan			Xi'an Jiaotong Univ.
Zhang, Yilin			Xi'an Jiaotong Univ.
Wu, Jiang			Xi'an Jiaotong Univ.
► TuA09-2	13:50–14:10		
<i>Drought Stress Detection in the Middle Growth Stage of Maize Based on Gabor Filter and Deep Learning</i>			
Jiang, Boran			Tianjin Univ.
Wang, Ping			Tianjin Univ.
Zhuang, Shuo			Tianjin Univ.
Li, Maosong			Chinese Acad. of Agricultural Sci.
Gong, Zhihong			Tianjin Climate Center
► TuA09-3	14:10–14:30		
<i>A Rapidly Method for the Discrimination of Aristolochic Acid and Its Analogues Using SVM and PCA</i>			
Chen, Xiaoyi			Fuzhou Univ.
Chai, Qinjin			Fuzhou Univ.
Li, Xianghui			Fujian Medical Univ.
Huang, Jie			Fuzhou Univ.
Wang, Wu			Fuzhou Univ.
► TuA09-4	14:30–14:50		
<i>Association Rules Mining of Silk Relics Database with the RCFP-growth Algorithm</i>			
Dong, Siying			Zhejiang Univ.
Liu, Meiqin			Zhejiang Univ.
Zhang, Senlin			Zhejiang Univ.
► TuA09-5	14:50–15:10		
<i>Fabric Patterns Recognition Based on Weft Phase Difference</i>			
Chen, Shichuang			Zhejiang Univ.
Liu, Meiqin			Zhejiang Univ.
Zhang, Senlin			Zhejiang Univ.
► TuA09-6	15:10–15:30		
<i>Logarithm Difference Based Illumination Invariant Feature for Severe Illumination Variation Face Recognition</i>			
Hu, Chang-Hui	Nanjing Univ. of Posts & Telecommunications		
Ye, Meng-Jun	Hubei Normal Univ.		
Yu, Jian	Nanjing Univ. of Posts & Telecommunications		
Jing, Shen	Nanjing Univ. of Posts & Telecommunications		
Zhou, Guang Liang	Nanjing Univ. of Posts & Telecommunications		
TuA10	13:30–15:30	Room 3312, Block 3	
Regular Session: New Energy Technology and Control in Environment (1)			
Chair: Dong, Zhe			Tsinghua Univ.
Co-Chair: Li, Po			Xiamen Univ.
► TuA10-1	13:30–13:50		
<i>Ultra-short-term Wind Power Prediction Based on Variational Mode Decomposition and Clustering Method</i>			
Liu, Chenyu			Tsinghua Univ.
Zhang, Xuemin			Tsinghua Univ.
Mei, Shengwei			Tsinghua Univ.
Huang, Shaowei			Tsinghua Univ.
► TuA10-2	13:50–14:10		
<i>New Paradigm for Battery Life Management in Data Centers</i>			
Haider, Syed Naeem			Tsinghua Univ.
Zhao, Qianchuan			Tsinghua Univ.
Yang, Wen			Tsinghua Univ.
► TuA10-3	14:10–14:30		
<i>Sine Wave Current Tracking of Grid-tied Two-stage Single-phase Inverter via Adaptive Model Predictive Control with Voltage Regulation</i>			
Li, Po			Xiamen Univ.

Li, Ruiyu Cai, Siyuan Hong, Yongqiang	Xiamen Univ. Xiamen Univ. Xiamen Univ.			13:50–14:10
► TuA10-4 <i>DC Component Minimization of Transformerless LCL-Type Grid-Connected Inverter with Virtual Capacitors</i>	Fang, Wenting Wu, Duidi Huang, Lijun Long, Bo Chen, Yong	Univ. of Electronic Sci. & Tech. of China Univ. of Electronic Sci. & Tech. UESTC Univ. of Electronic Sci. & Tech. of China Univ. of Electronic Sci. & Tech. of China	14:30–14:50	
► TuA10-5 <i>Passivity-Based Control of Heat Exchanger Networks</i>	Dong, Zhe	Tsinghua Univ.	14:50–15:10	
► TuA10-6 <i>Control of PEMFC Air Supply Subsystem Using Triple-StepMethod</i>	Li, Meng Zhang, Yu Hu, Yunfeng Gao, Jinwu	Jilin Univ. Jilin Univ. Jilin Univ. Jilin Univ.	15:10–15:30	
TuA11 Regular Session: Multi-Agent Systems and Distributed Control (5)	13:30–15:30	Room 3313, Block 3		
Chair: Li, Zhongkui Co-Chair: Zeng, Xianlin	Peking Univ. Beijing Inst. of Tech.			
► TuA11-1 <i>Time-varying Formation Feasibility Analysis for Linear Multi-agent Systems with Time Delays and Switching Graphs</i>	Dong, Xiwang Hua, Yongzhao Hu, Guoqiang Ren, Zhang	Beihang Univ. Beihang Univ. Nanyang Technological Univ. Beihang Univ.	13:30–13:50	
► TuA11-2 <i>Distributed PI Control of Active-Passive Networked Linear Multi-agent Systems</i>	Wu, Zizhen Xiong, Yi Li, Zhongkui	Peking Univ. Peking Univ. Peking Univ.	13:50–14:10	
► TuA11-3 <i>Practical Synchronization of the High-dimensional Kuramoto Model with Nonidentical Oscillators</i>	Zhang, Jinxing Liu, Huazhen Zhu, Jiandong	Nanjing Normal Univ. Nanjing Normal Univ. Nanjing Normal Univ.	14:10–14:30	
► TuA11-4 <i>Distributed Optimization Design for Solving the Stein Equation with Constraints</i>	Chen, Guanpu Zeng, Xianlin Hong, Yiguang	Chinese Acad. of Sci. Beijing Inst. of Tech. Chinese Acad. of Sci.	14:30–14:50	
► TuA11-5 <i>Fully Distributed Consensus of Second-order Multi-agent Systems Using Adaptive Event-based(SCIS)</i>	Zhu, Wei Zhou, Qianghui Wang, Dandan Feng, Gang	Chongqing Univ. of Posts & Telecommunications Chongqing Univ. of Posts & Telecommunications Chongqing Univ. of Posts & Telecommunications City Univ. of Hong Kong	14:50–15:10	
► TuA11-6 <i>Distributed Adaptive Fault-tolerant Tracking Consensus Control of Non-linear Multi-agent Systems</i>	Li, Xiayang Wang, Jinzhi	Peking Univ. Peking Univ.	15:10–15:30	
TuA12 Regular Session: Sensor Networks and Internet of Things (IoT)	13:30–15:30	Room 3315, Block 3		
Chair: Luo, Xiaoyuan Co-Chair: Wu, Bingwei	Yanshan Univ. Inst. of Oceanographic Instrumentation, Shandong Acad. of Sci.			
► TuA12-1 <i>Design of Embedded Software for In-situ Monitoring System of Marine Radioactivity Based on A Buoy</i>	Wu, Bingwei	Inst. of Oceanographic Instrumentation, Shandong Acad. of Sci.	13:30–13:50	
► TuA12-2 <i>HealChain: A Decentralized Data Management System for Mobile Healthcare Using Consortium Blockchain</i>	Ni, Weiquan Huang, Xumin Zhang, Junxing Yu, Rong	Guangdong Univ. of Tech. Guangdong Univ. of Tech. Guangdong Univ. of Tech. Guangdong Univ. of Tech.	13:50–14:10	
► TuA12-3 <i>VeSenChain: Leveraging Consortium Blockchain for Secure and Efficient Vehicular Crowdsensing</i>	Zhang, Junxing Huang, Xumin Ni, Weiquan Wu, Maoqiang Yu, Rong	Guangdong Univ. of Tech. Guangdong Univ. of Tech. Guangdong Univ. of Tech. Guangdong Univ. of Tech. Guangdong Univ. of Tech.	14:10–14:30	
► TuA12-4 <i>Network Joint Clock Synchronization and Ranging: Linear Bayesian Solution</i>	Gu, Xiaobo Chang, Qing Dempster, Andrew Glennon, Eamonn Li, Xianxu	Guangdong Univ. of Tech. Beihang Univ. Univ. of New South Wales Univ. of New South Wales State Grid Information & Telecommunication Branch	14:30–14:50	
► TuA12-5 <i>Formation Coverage Control for Mobile Directional Sensor Networks with Obstacle Avoidance via Stream Function</i>	Wang, Jinran Li, Xiaolei Yan, Jing Luo, Xiaoyuan	Yanshan Univ. Yanshan Univ. Yanshan Univ. Yanshan Univ.	14:50–15:10	
► TuA12-6 <i>Visual Feedback System for Traditional Chinese Medical Massage Robot</i>	Sun, Kailai Zhao, Qianchuan Yang, Zhenming Xu, Xiuwei	Tsinghua Univ. Tsinghua Univ. Tsinghua Univ. Tsinghua	15:10–15:30	
TuA13 Regular Session: Aircraft Control (5)	13:30–15:30	Room 3401, Block 3		
Chair: Huang, Min Co-Chair: Zhang, Jinghui	Dalian Naval Acadamy National Univ. of Defense Tech.			
► TuA13-1 <i>Quadrotor Attitude Control Based on Fuzzy Sliding Mode Control Theory</i>	Jing, Qi Chang, Zhiyuan Chu, Hongyu Shao, Yanhua Zhang, Xiaoqiang	Southwest Univ. of Sci. & Tech. Southwest Univ. of Sci. & Tech.	13:30–13:50	
► TuA13-2 <i>Sliding Mode Control for Integrated Missile Guidance and Control System</i>	Xiong, Yu Guo, Jianguo Zhou, Jun	Northwestern Polytechnical Univ. Northwest Polytechnical Univ. Northwestern Polytechnical Univ.	13:50–14:10	
► TuA13-3 <i>Model Free Adaptive Attitude Control for A Launch Vehicle</i>	Liu, Jingbang	School of Electronic Information Engineering, Beijing Jiaotong Univ.	14:10–14:30	
	Yu, Xian Jin, Shangtai Hou, Zhongsheng	Beijing Jiaotong Univ. Beijing Jiaotong Univ. Beijing Jiaotong Univ.		
► TuA13-4 <i>基于风洞的导弹姿态稳定性性能评估方法</i>	Huang, Min Zhu, Chuanwei Dou, Jihua Zhao, Fengmin	Dalian Naval Acadamy Dalian Naval Acadamy Dalian Naval Acadamy Dalian Naval Acadamy	14:30–14:50	

► TuA13-5	14:50–15:10	Yu, Changbin	Westlake Univ.
<i>Nonlinear Control of Spacecraft Electromagnetic Docking with Modified Far-field Model</i>			
Zhang, Jinghui	National Univ. of Defense Tech.		
Zeng, Guoqiang	Wuhan Univ.		
Gao, Yudong	Wuhan Univ.		
► TuA13-6	15:10–15:30		
<i>Trajectory Tracking Control for A Generic Hypersonic Flight Vehicle under Event-triggered Mechanism</i>			
Ji, Yuehui	Tianjin Univ. of Tech.		
Zhou, Hailiang	Tianjin Inst. of Metrological Supervision Testing		
Tian, Bailing	Tianjin Univ.		
TuA14	13:30–15:30	Room 3402, Block 3	
Regular Session: System Simulation, Integration and Evaluation (1)			
Chair: Yue, Xiaoning	Shenyang Univ.		
Co-Chair: Lu, Xiaodong	Northwestern Polytechnical Univ.		
► TuA14-1	13:30–13:50		
<i>Research on Algorithms of City Fog-haze Level Detection</i>			
Yue, Xiaoning	Shenyang Univ.		
Yue, Gaofeng	Shenyang Univ.		
Zhang, Junying	Shenyang Univ.		
Yao, Chen	Shenyang Univ.		
► TuA14-2	13:50–14:10		
<i>Research on Traffic Simulation Scenario Construction and Fidelity Evaluation Method under Environment of I-VICS</i>			
Qiu, Weizhi	Beijing Jiaotong Univ.		
Shangguan, Wei	Beijing Jiaotong Univ.		
Cai, Bai-Gen	Beijing Jiaotong Univ.		
Chai, Linguo	Beijing Jiaotong Univ.		
► TuA14-3	14:10–14:30		
<i>An Improved Hydraulic-Thermal Decoupling Method for District Heating Network Simulation and Implementation on A Cloud Computing Based Simulation Platform - CloudPSS</i>			
Xiang, Yue	Tsinghua Sichuan Energy Internet Research Inst.		
Song, Yankan	Tsinghua Univ.		
Yu, Zhitong	Tsinghua Sichuan Energy Internet Research Inst.		
Chen, Ying	Tsinghua Univ.		
Huang, Shaowei	Tsinghua Univ.		
► TuA14-4	14:30–14:50		
<i>The Ground Simulation for Space Interception under the Time-varied Spatio-temporal Transform Similarity</i>			
Lu, Xiaodong	Northwestern Polytechnical Univ.		
Tao, Cui	Northwestern Polytechnical Univ.		
Xin, Jianing	Northwestern Polytechnical Univ.		
Zhou, Jun	Northwestern Polytechnical Univ.		
Li, Bin	China Acad. of Launch Vehicle Tech.		
► TuA14-5	14:50–15:10		
<i>Risk Assessment of Submarine Pipelines Based on Multi-Source Data Model</i>			
Tian, Yiwei	Zhejiang Univ.		
Liu, Meiqin	Zhejiang Univ.		
Zhang, Senlin	Zhejiang Univ.		
Zhou, Tian	Harbin Engineering Univ.		
► TuA14-6	15:10–15:30		
<i>Optimization Design for Structure Parameters of Six Degree- Of-Freedom(DOF) Positioner of Secondary Mirror in A Space Optical Remote Sensor Based on ADAMS</i>			
Tan, Shuang	Beijing Institute of Space Mechanics & Electricity		
Liang, Fengchao	Beijing Institute of Space Mechanics & Electricity		
Fan, Jiankai	Beijing Inst. of Space Mechanics		
Zhang, Yalin	Beijing Institue of Space Mechanics & Electricity		
Lin, Zhe	Beijing Inst. of Space Mechanics & Electricity		
TuA15	13:30–15:30	Room 3403, Block 3	
Regular Session: Game Theory and Social Networks (1)			
Chair: Mu, Yifen	Chinese Acad. of Sci.		
Co-Chair: Chen, Binbin	Shandong Univ. of Finance & Economics		
► TuA15-1	13:30–13:50		
<i>Group Pressure Leads to Consensus of Hegselmann-Krause Opinion Dynamics</i>			
Cheng, Chun	Westlake Univ.		
Song, Yaoxian	Westlake Univ.		
► TuA15-2	13:50–14:10		
<i>Competition of Social Opinions on Two Layer Networks</i>			
Cho, Hyunchel	Shanghai Jiaotong Univ		
Mahmood, Arfan	Shanghai Jiao Tong Univ.		
Wang, Lin	Shanghai Jiao Tong Univ.		
► TuA15-3	14:10–14:30		
<i>Design of Signal Authentication Mechanism for Screening the Online Sellers' Quality Information by E-commerce Platform</i>			
Zhao, Jiaying	Ningbo Univ.		
Xiong, Weiqing	Ningbo Univ., China		
Xiong, Peichen	Univ. of Nottingham Ningbo China		
► TuA15-4	14:30–14:50		
<i>The Effects of Information Disclosure with Short-term Traders</i>			
Chen, Binbin	Shandong Univ. of Finance & Economics		
Wang, Zi	Shandong Univ. of Finance & Economics		
Huang, Jiarui	Shandong Univ. of Finance & Economics		
► TuA15-5	14:50–15:10		
<i>New Game Theoretical Model and GNE Results for the Flow Structure Inbubble Columns</i>			
Mu, Yifan	Chinese Acad. of Sci.		
Guan, Xiaoping	Inst. of Process Engineering		
Yuan, Shuo	Acadey of Mathematics & Sys. Sci., CAS		
Liu, Zhi-Xin	Chinese Acad. of Sci.		
TuA16	13:30–15:30	Room 3405, Block 3	
Invited Session: Recent results in cooperative control of multi-agent systems			
Organizer: Chen, Fei	Northeastern Univ.		
Organizer: Mei, Jie	Harbin Inst. of Tech.-Shenzhen		
Chair: Chen, Fei	Northeastern Univ.		
Co-Chair: Mei, Jie	Harbin Inst. of Tech.-Shenzhen		
► TuA16-1	13:30–13:50		
<i>Consensus Analysis for Multi-agent Systems with A Smart Leader</i>			
Sensen, Wang	NanKai Univ.		
Liu, Honggang	Nankai Univ.		
Wang, Fuyong	Nankai Univ.		
Liu, Zhongxin	NanKai Univ.		
Chen, Zengqiang	Nankai Univ.		
► TuA16-2	13:50–14:10		
<i>Distributed Consensus Control of Multiple Lur'e Nonlinear Systems with Event-Triggered Transmission Strategy under Directed Switching Topologies</i>			
Sun, Jianjun	Beijing Inst. of Tech.		
Liu, Haikuo	Beijing Inst. of Tech.		
Du, Changkun	Beijing Inst. of Tech.		
Chen, Zhen	Beijing Inst. of Tech.		
Lu, Pingli	Beijing Inst. of Tech.		
► TuA16-3	14:10–14:30		
<i>Bipartite Consensus of Time-varying Multi-agent Systems with Signed Edge Dynamics</i>			
Fu, Huihui	Xiamen Univ.		
Xiang, Linying	Northeastern Univ. at Qinhuangdao		
Guo, Ge	Dalian Maritime Univ.		
► TuA16-4	14:30–14:50		
<i>Output Consensus of Linear Heterogeneous Multi-agent Systems with External Disturbances by Event-triggered Strategy</i>			
Zhou, Feng	DFH SATELLITE TE CO.LTD		
Liu, Haikuo	Beijing Inst. of Tech.		
Du, Changkun	Beijing Inst. of Tech.		
Liu, Xiangdong	Beijing Inst. of Tech.		
Lu, Pingli	Beijing Inst. of Tech.		
Liu, Xuechao	DFH SATELLITE TE CO.LTD		
► TuA16-5	14:50–15:10		
<i>Output Feedback Consensus Control of High-order Nonlinear Multi-agent Systems with Full State Constraints</i>			
Song, Jiaxing	Yanshan Univ.		
Li, Kuo	Yanshan Univ.		
Hua, Changchun	Yanshan Univ.		
► TuA16-6	15:10–15:30		
<i>Decentralized Event-triggered Communication for Consensus of Uncertain Multi-agent Systems</i>			

Bai, Qishu Mei, Jie	Harbin Inst. of Tech., Shenzhen Harbin Inst. of Tech.-Shenzhen		
TuA17 13:30–16:30	Room 3406, Block 3		
Invited Session: Recent Advances of Networked Control Systems			
Organizer: Sun, Jian Organizer: Pang, Zhonghua Organizer: Liu, Guoping Chair: Sun, Jian Co-Chair: Hu, Wenshan	Beijing Inst. of Tech. North China Univ. of Tech. Univ. of South Wales Beijing Inst. of Tech. Wuhan Univ.		
► TuA17-1 13:30–13:50			
Distributed Algorithm for Controllability Test of Discrete-time Linear Systems			
Jiang, Xia Zeng, Xianlin Sun, Jian Chen, Jie	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.		
► TuA17-2 13:50–14:10			
Prediction-based Optimal Distributed Filtering with Communication Delay over Sensor Networks			
Hu, Jun Liu, Guoping Wang, Zidong Zhang, Hongxu	Harbin Univ. of Sci. & Tech. Univ. of South Wales Tsinghua Univ. Harbin Univ. of Sci. & Tech.		
► TuA17-3 14:10–14:30			
Remote Monitoring and Control System for Domestic Electricity Consumption Based on WeChat Applet			
Xiao, Hui Hu, Wenshan Zhou, Dongguo Deng, Qijun Zhou, Hong	Wuhan Univ. Wuhan Univ. Wuhan Univ. Wuhan Univ. Wuhan Univ.		
► TuA17-4 14:30–14:50			
Real-Time Data Transmission Method Based on Websocket Protocol for Networked Control System Laboratory			
Guan, Shiqi Hu, Wenshan Zhou, Hong	Wuhan Univ. Wuhan Univ. Wuhan Univ.		
► TuA17-5 14:50–15:10			
Design of Networked Control System for Submersible Pump			
Fang, Li Hu, Wenshan Zhou, Hong Deng, Qijun Zhou, Dongguo	Wuhan Univ. Wuhan Univ. Wuhan Univ. Wuhan Univ. Wuhan Univ.		
► TuA17-6 15:10–15:30			
Collaborative Transportation Using Multi-WMRs via Networked Predictive Control			
Zhang, Tianyong Pang, Zhonghua You, Bo Li, Jiayu Liu, Guoping	Harbin Univ. of Sci. & Tech. North China Univ. of Tech. Harbin Univ. of Sci. & Tech. Harbin Univ. of Sci. & Tech. Glamorgan Univ., UK		
► TuA17-7 15:30–15:50			
On Hierarchical Fault Identification Technology of Power Conditioning Components Based on Sensitive Feature Extraction			
Deng, Jinhua Gao, Hang Wu, Huai	China Acad. of Engineering Physics China Acad. of Engineering Physics China Acad. of Engineering Physics		
► TuA17-8 15:50–16:10			
A Novel F-Consensus Protocol and Its Application on Multiple WMRs Formation			
Zhao, Jun Cheng, Haiyang Liu, Guoping	Harbin Inst. of Tech. Sichuanqinghuagongdaxue Harbin Inst. of Tech.		
► TuA17-9 16:10–16:30			
Multi-rate Design of Networked Predictive Controller and Its Application for Consensus of Networked Multi-agent Systems with Delays			
Li, Chang-Jiang	Harbin Inst. of Tech.		
TuA18 13:30–15:50	Room 3407, Block 3		
Invited Session: Analysis and Control for Multi-scale Systems			
Organizer: Cai, Chenxiao Chair: Cai, Chenxiao Co-Chair: Du, Xin	Inst. of Automation, Nanjing Univ. of Sci. & Tech. Inst. of Automation, Nanjing Univ. of Sci. & Tech. Shanghai Univ.		
► TuA18-1 13:30–13:50			
Synchronization of A Class of Discrete-Time Nonlinear Singularly Perturbed Complex Networks			
Li, Yongzhi Li, Yuqing Wan, Xiongbo	China Univ. of GeoSci. China Univ. of GeoSci. China Univ. of GeoSci.		
► TuA18-2 13:50–14:10			
Sliding Mode Control of Variable Speed Wind Turbines via Two Time Scale Theory			
Zhang, Yan Yang, Zhong Shen, Hao Zhou, Duan	Jinling Inst. of Tech. JinLing Inst. of Tech. Anhui Univ. of Tech. Jinling Inst. of Tech.		
► TuA18-3 14:10–14:30			
Frequency-selective Filter Based Frequency Separated Feedback Control of Linear Systems: State Feedback Case			
Du, Xin Yang, Yi Heiland, Jan Kaynak, Okyay	Shanghai Univ. Shanghai Univ. Otto-von-Guericke Univ., Magdeburg Bogazici Univ., Turkey		
► TuA18-4 14:30–14:50			
Sliding Mode Tracking Control for Fuzzy Singularly Perturbed Systems			
Yang, Chunyu Shen, Leping Zhou, Linna	China Univ. of Mining & Tech. China Univ. of Mining & Tech. China Univ. of Ming & Tech.		
► TuA18-5 14:50–15:10			
Event-Triggered Fault Detection for Discrete-Time Singularly Perturbed Systems in Finite-Frequency Domain			
Ma, Lei Cai, Chenxiao	Nanjing Univ. of Sci. & Tech. Inst. of Automation, Nanjing Univ. of Sci. & Tech.		
► TuA18-6 15:10–15:30			
Event-triggered Adaptive Fault Estimation for T-S Fuzzy System with Actuator Faults			
Li, Xiaojian Wang, Ning Liu, Lili Liu, Shaokun	Northeastern Univ. Northeastern Univ. Northeastern Univ. The 54th Research Inst. of CETC		
► TuA18-7 15:30–15:50			
Ultra-Short-Term Wind Power Forecasting Based on Deep Belief Network			
Wang, Sen Sun, Yonghui Zhai, Suwei Hou, Dongchen Wang, Peng Wu, Xiaopeng	Hohai Univ. Hohai Univ. Hohai Univ. Hohai Univ. Hohai Univ. College of Energy & Electrical Engineering		
TuA19 13:30–16:10	Room 3408, Block 3		
Invited Session: Sensor-Based Robotic Control and Manipulation			
Organizer: Li, Xiang Chair: Li, Xiang Co-Chair: Miao, Zhiqiang	The Chinese Univ. of Hong Kong The Chinese Univ. of Hong Kong Hunan Univ.		
► TuA19-1 13:30–13:50			
Formation Control with Connectivity Maintenance for Double-Integrator Multi-Agent Systems			
Miao, Zhiqiang Wang, Yaonan	Hunan Univ. Hunan Univ.		
► TuA19-2 13:50–14:10			
Singular Perturbation-based Variable Impedance Control of Robots with Series Elastic Actuators			
Deng, Dongning Sun, Tairen Zhao, Guo Pan, Yongping	Jiangsu Univ. Jiangsu Univ. Wuhan Univ. National Univ. of Singapore		

TuA19-3		14:10–14:30			
<i>Hybrid Force/Position Control Strategy for Electromagnetic Based Robotic Polishing Systems</i>					
Xiao, Chaowen	South China Univ. of Tech.		Wu, Xiande	Harbin Engineering Univ.	
Wang, Qinghui	South China Univ. of Tech.		Han, Zhao	Harbin Engineering Univ.	
Zhou, Xuefeng	Guangdong Inst. of Intelligent Manufacturing		Lv, Junting	Harbin Engineering Univ.	
Xu, Zhihao	Guangdong Acad. of Sci.		Zhang, Zhdan	Harbin Engineering Univ.	
Lao, Xiaoyan	South China Robotics Innovation Research Institute		Sun, Jun	Shanghai Key Laboratory of Space Intelligent Control Tech.	
Chen, Yin	South China Robotics Innovation Research Institute				14:10–14:30
► TuA19-4		14:30–14:50			
<i>Vision-Based Adaptive Impedance Control for Robotic Polishing</i>					
Zhou, Yang	The Chinese Univ. of Hong Kong		Liu, Xiaoyun	Qian Xuesen Laboratory of Space Tech.	
Li, Xiang	The Chinese Univ. of Hong Kong		Zhou, Qingrui	China Acad. of Space Tech.	
Yue, Linzhu	The Chinese Univ. of Hong Kong		Wang, Hui	China Acad. of Space Tech.	
Gui, Linhai	The Chinese Univ. of Hong Kong		Yang, Ying	China Acad. of Space Tech.	
Sun, Guangli	The Chinese Univ. of Hong Kong				
► TuA19-5		14:50–15:10			
<i>On Model Adaptation for Sensorimotor Control of Robots</i>					
Navarro-Alarcon, David	The Hong Kong Polytechnic Univ.				14:50–15:10
Cherubini, Andrea	Univ. of Montpellier				
Li, Xiang	The Chinese Univ. of Hong Kong				
► TuA19-6		15:10–15:30			
<i>Improving the Time Efficiency of SEMG-based Human-in-the-Loop Optimization</i>					
Ren, Pengqing	College of Artificial Intelligence, Nankai Univ., Tianjin				
Wang, Wei	Nankai University				
Jing, Zhibo	Nankai Univ.				
Chen, Jianyu	Nankai Univ.				
Zhang, Juanjuan	Nankai Univ.				
► TuA19-7		15:30–15:50			
<i>Automatic Lower Limb Critical Angle Assessment System for Patients with Robot-based Knee Replacement</i>					
Jing, Zhibo	Nankai Univ.				
Liu, Hang	Nankai Univ.				
Ren, Pengqing	College of Artificial Intelligence, Nankai Univ., Tianjin				
Wang, Wei	Nankai University				
Zhang, Juanjuan	Nankai Univ.				
► TuA19-8		15:50–16:10			
<i>基于人体运动姿态重建的机械臂遥操作系统</i>					
<i>Robotic Arm Teleoperation System Based on Human Body Motion Reconstruction</i>					
Wu, Hangyu	Zhejiang University of Tech.				
Jin, Congcong	Zhejiang Univ. of Tech.				
Li, Peng	Zhejiang Univ. of Tech.				
Xu, Jian	Zhejiang University of Tech.				
Zhang, Wenan	Zhejiang Univ. of Tech.				
TuA20	13:30–17:50	Room 3409, Block 3			
<i>Invited Session: Distributed Space-based Systems and Swarm Intelligence</i>					
Organizer: Zhou, Qingrui	China Acad. of Space Tech.				
Chair: Zhou, Qingrui	China Acad. of Space Tech.				
Co-Chair: Wu, Xiande	Harbin Engineering Univ.				
► TuA20-1		13:30–13:50			
<i>Force-thermal Coupling Analysis of Control System COTS Components</i>					
Zhang, Zhdan	Harbin Engineering Univ.				
Wu, Xiande	Harbin Engineering Univ.				
Xie, Yaen	Harbin Engineering Univ.				
Song, Ting	Shanghai Inst. of Spaceflight Control Tech.				
Shi, Mingyue	Harbin Engineering Univ.				
Zhang, Zehua	Harbin Engineering Univ.				
Sun, Jun	Shanghai Key Laboratory of Space Intelligent Control Tech.				
► TuA20-2		13:50–14:10			
<i>Relative Position Filter for Constellation Satellites with Vision</i>					
Sun, Xinzhu	Harbin Engineering Univ.				
Chen, Weidong	Harbin Engineering Univ.				
► TuA20-3		14:10–14:30			
<i>Towards Efficient Mapless Navigation Using Deep Reinforcement Learning with Parameter Space Noise</i>					
Liu, Xiaoyun	Qian Xuesen Laboratory of Space Tech.				
Zhou, Qingrui	China Acad. of Space Tech.				
Wang, Hui	China Acad. of Space Tech.				
Yang, Ying	China Acad. of Space Tech.				
► TuA20-4		14:30–14:50			
<i>Design of LEO Hybrid Constellation for Intensive Observation in Specific Area</i>					
Yang, Ying	China Acad. of Space Tech.				
Zhou, Qingrui	China Acad. of Space Tech.				
Liu, Xiaoyun	Qian Xuesen Laboratory of Space Tech.				
Wang, Hui	China Acad. of Space Tech.				
► TuA20-5		14:50–15:10			
<i>Study on Group Motion Based on Boids Model</i>					
Liu, Yewei	Univ. of Sci. & Tech. Beijing				
Zhou, Qingrui	China Acad. of Space Tech.				
► TuA20-6		15:10–15:30			
<i>A Fast Algorithm for Solving Satellite Swing Angle</i>					
Yang, Chao	Univ. of Sci. & Tech. Beijing				
Zhou, Qingrui	China Acad. of Space Tech.				
► TuA20-7		15:30–15:50			
<i>An Autonomous Navigation Method for the Libration Point Satellites</i>					
Wang, Hui	China Acad. of Space Tech.				
Zhou, Qingrui	China Acad. of Space Tech.				
Liu, Xiaoyun	Qian Xuesen Laboratory of Space Tech.				
Yang, Ying	China Acad. of Space Tech.				
TuA21	13:30–16:10	Room 3410, Block 3			
<i>Invited Session: Quantum Control and Quantum Learning</i>					
Organizer: Wu, Rebing					
Chair: Wu, Rebing					
Co-Chair: Xue, Shibei					
Co-Chair: Yuan, Haidong					
► TuA21-1		13:30–13:50			
<i>D-dimensional Nondestructive Teleportation Based on Non-maximally Entangled Channel</i>					
Fu, Fenxiang	Soochow Univ.				
Jiang, Min	Soochow Univ.				
► TuA21-2		13:50–14:10			
<i>Impact of Quantum Algorithms on Time Complexity of Classical-data Problems</i>					
Li, Kai	National Univ. of Defense Tech.				
Yang, Le	NUDT				
Dai, Hong-Yi	National Univ. of Defense Tech.				
Zhang, Ming	National Univ. of Defense Tech.				
► TuA21-3		14:10–14:30			
<i>An Inverse-system Method for the Damping Rate Function Identification of A Non-Markovian Single-qubit System</i>					
Tan, Lingyu	Shanghai Jiaotong Univ.				
Wu, Rebing	Tsinghua Univ.				
Li, Dewei	Shanghai Jiao Tong Univ.				
Xue, Shibei	Shanghai Jiao Tong Univ.				
► TuA21-4		14:30–14:50			
<i>Critical Dynamics of Coherence in Extended Transverse Field Ising Model</i>					
Song, Hongting	China Acad. of Space Tech.				
► TuA21-5		14:50–15:10			
<i>Linear Passive Open Quantum Systems</i>					
Ma, Shan	Central South Univ.				
Shu, Chuancun	Central South Univ.				
Xiang, Chengdi	Hangzhou Dianzi Univ.				
► TuA21-6		15:10–15:30			
<i>Quantum Parameter Estimation with Feedback Control</i>					
Liu, Liqiang	The Chinese Univ. of Hong Kong				

Yuan, Haidong ► TuA21-7 <i>On-demand Microwave Controlled Single-photon Source</i> Li, Wenlong	Chinese Univ. of Hong Kong 15:30–15:50	Fu, Jian Wang, Liangming Chen, Zhi	Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Shanghai Univ.
► TuA21-8 <i>Open Quantum System Control Based on Reinforcement Learning</i> Wei, Peng Li, Na Xi, Zairong	15:50–16:10 Chinese Acadamy of Sci. Chinese Acad. of Sci. Chinese Acad. of Sci.	Hou, Xian-Qin Wang, Liangming Fu, Jian Chen, Zhi	13:50–14:10 <i>Aerodynamic Parameter Identification for High-Spin Projectile Based on Differential Evolution-Maximum Likelihood Method</i> Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Shanghai Univ.
TuA22 13:30–15:30 Invited Session: Nonlinear and Adaptive Control with Applications Organizer: Liu, Zhitao Chair: Liu, Zhitao Co-Chair: Liu, Xiangbin	Room 3411, Block 3 Zhejiang Univ. Zhejiang Univ. Beijing Jiaotong Univ.	Zhu, Quan-Min Zhang, Weicun Chen, Jing	Univ. of the West of England Univ. of Sci. & Tech. Beijing Jiangnan Univ.
► TuA22-1 <i>Extended Disturbance Observer Based Double Integral Sliding Mode Control for Nonlinear Thrust Active Magnetic Bearing Systems</i> Xiao, Lingfei Ma, Leiming Ruan, Zhuxin Shen, Bin	13:30–13:50 Nanjing Univ. of Aeronautics & Astronautics Nanjing Univ. of Aeronautics & Astronautics Nanjing Univ. of Aeronautics & Astronautics Nanjing Univ. of Aeronautics & Astronautics	Dong, Yu Na, Jing Wang, Shubo Gao, Guanbin He, Haoran	Kunming Univ. of Sci. & Tech. Kunming Univ. of Sci. & Tech. Qingdao Univ. Kunming Univ. of Sci. & Tech. Kunming Univ. of Sci. & Tech.
► TuA22-2 <i>Adaptive Torque Control of Disturbed Brushless Direct Current Motor Based on Internal Model Principle</i> Liu, Xiangbin Zhao, Meng Su, Hongye	13:50–14:10 Beijing Jiaotong Univ. North China Univ. of Tech. Zhejiang Univ., China	Zhu, Quan-Min Zhang, Weicun Na, Jing Sun, Bei	14:10–14:30 <i>U-model Enhanced Control of Volterra Series Systems</i> Univ. of the West of England Univ. of Sci. & Tech. Beijing Kunming Univ. of Sci. & Tech. Central South Univ.
► TuA22-3 <i>Parallel Structure Digital Repetitive Control for Multi-Periodic Disturbances Rejection</i> Wu, Lingwei Yan, Qiuzhen Cai, Jianping	14:10–14:30 Taizhou Univ. Zhejiang Univ. of Water Resources & Electric Power Zhejiang Univ. of Water Resources & Electric Power	Saurabh, Pandey Liu, Tao	14:30–14:50 <i>Robust Adaptive Parameter Estimation and Tracking Control for Hydraulic Servo Systems</i> Dalian Univ. of Tech. Dalian Univ. of Tech.
► TuA22-4 <i>Reinforcement Learning-Based Control for A Class of Nonlinear Systems with Unknown Control Directions</i> Song, Xiaoling Huang, Miao Wen, Gang Ma, Longhua Yao, Jiaqing Lu, Zheming	14:30–14:50 Xinjiang TIANYE Group Co, Ltd East China Univ. of Sci. & Tech. Xinjiang TIANYE Group Co, Ltd Ningbo Inst. of Tech., Zhejiang Univ. Xinjiang TIANYE Group Co, Ltd Zhejiang Univ.	Ding, Lv Qian, Longjun Sun, Ruisheng Yu, Ting	14:50–15:10 <i>U-model Based Control Design Framework for Continuous-Time Systems</i> Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech.
► TuA22-5 <i>Electrochemical Model Based State of Charge Estimation for Lithium Batteries with Backstepping Techniques</i> Chen, Guangwei Liu, Zhitao Su, Hongye Zhang, Quanling	14:50–15:10 Zhejiang Univ. Zhejiang Univ. Zhejiang Univ., China Zhejiang Univ.	Zhao, Wen-Xiao	15:10–15:30 <i>Identification of Output Error Model for Linear Time Delay Systems Subject to Load Disturbance with Unknown Dynamics</i> Dalian Univ. of Tech. Dalian Univ. of Tech.
► TuA22-6 <i>Event-triggered Output Feedback Control for A Class of Discrete-Time Nonlinear Systems</i> Zhuang, Wenxiu Liu, Zhitao Su, Hongye Zhang, Quanling	15:10–15:30 Zhejiang Univ. Zhejiang Univ. Zhejiang Univ., China Zhejiang Univ.	TuA24 13:30–15:30 Room 3413, Block 3 Invited Session: Intelligent coordination of heterogeneous unmanned swarming systems Organizer: Li, Xiang Organizer: Zhang, Hai-Tao Chair: Li, Xiang Co-Chair: Zhang, Hai-Tao	15:30–15:50 <i>Autopilot Design for Elastic Missile Systems</i> Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech.
► TuA23 Invited Session: U-model based Control with System identification Organizer: Na, Jing Organizer: Liu, Tao Organizer: Zhang, Weicun Organizer: Zhu, Quan-Min Chair: Na, Jing Co-Chair: Liu, Tao Co-Chair: Zhang, Weicun	13:30–16:10 Room 3412, Block 3 Kunming Univ. of Sci. & Tech. Dalian Univ. of Tech. Univ. of Sci. & Tech. Beijing Univ. of the West of England Kunming Univ. of Sci. & Tech. Dalian Univ. of Tech. Univ. of Sci. & Tech. Beijing	Huang, Dapeng Yuan, Quan Li, Xiang	13:30–13:50 <i>Strong Consistency of Variable Selection for Stationary Linear Stochastic Systems</i> Zhejiang Normal Univ. Zhejiang Normal Univ. Zhejiang Normal Univ. Zhejiang Normal Univ.
► TuA23-1 <i>Back-stepping Sliding Mode Control Based on Invariant Set and Non-linear Disturbance Observer for HSV with Attitude Constraints</i> Yang, Zhihao	13:30–13:50 Nanjing Univ. of Sci. & Tech.	Deng, Wen Li, Weijian Hong, Yiguang	13:50–14:10 <i>Zero-Determinant Strategies in Winner Takes All Game</i> Zhejiang Normal Univ. Zhejiang Normal Univ. Zhejiang Normal Univ. Zhejiang Normal Univ.
► TuA23-2 <i>Decentralized Flocking of Multi-agent System Based on MPC with Collision/obstacle Avoidance</i> Huang, Dapeng Yuan, Quan Li, Xiang			14:10–14:30 <i>Distributed Computation for Sparse Optimization with Linear Equality Constraints</i> Chinese Acad. of Sci.; Univ. of Chinese Acad. of Sci. Univ. of Sci. & Tech. of China Chinese Acad. of Sci.

► TuA24-4 <i>Circular Formation Algorithm for Multiple Nonholonomic Mobile Robots: An Optimization-Based Approach</i>	14:30–14:50	Wang, Shuai Qin, Jiahu Kang, Yu	Univ. of Sci. & Tech. of China Univ. of Sci. & Tech. of China Univ. of Sci. & Tech. of China	► TuA25-8 <i>Fault Diagnosis for Electronic Transformer with Wavelet Energy Entropy and SVM</i>	15:50–16:10	He, Yongze Liu, Zhenxing Zhang, Yong	Wuhan Univ. of Sci. & Tech. WuHan Univ. of Sci. & Tech. Wuhan Univ. of Sci. & Tech.
► TuA24-5 <i>Distributed Cooperative Attitude Tracking for Multiple Flexible Spacecraft under A Directed Graph</i>	14:50–15:10	Wang, Lei Song, Zhuoyue Su, Housheng Zou, Yiqun Tang, Xiafei	Beijing Inst. of Tech. Beijing Institute of Tech. Huazhong Univ. of Sci. & Tech. Central South Univ. Changsha Univ. of Sci. & Tech.	TuA26 Invited Session: Nonlinear/Switching Control and its Applications	13:30–15:30 Room 3416, Block 3	Organizer: Cai, He Organizer: Su, Youfeng Chair: Cai, He Co-Chair: Su, Youfeng	South China Univ. of Tech. Fuzhou Univ. South China Univ. of Tech. Fuzhou Univ.
► TuA24-6 <i>Decentralized Finite Time Consensus for Discrete-time High-order Linear Multi-agent System</i>	15:10–15:30	Hu, Zhe Fu, Dongfei Zhang, Hai-Tao	Huazhong Univ. of Sci. & Tech. HUST Huazhong Univ. of Sci. & Tech.	► TuA26-1 <i>Stabilization for Switched Nonlinear Stochastic Systems under Arbitrary Switchings via Output Feedback</i>	13:30–13:50	Ma, Yajing Li, Zhanjie Zhao, Jun	Northeastern Univ. Northeastern Univ. Northeastern Univ.
TuA25 Invited Session: New filtering and fault detection methods for stochastic complex systems	13:30–16:10	Organizer: Shen, Bo Organizer: Suo, Jinghui Chair: Shen, Bo Co-Chair: Suo, Jinghui	Donghua Univ. Donghua Univ. Donghua Univ. Donghua Univ.	► TuA26-2 <i>Trajectory Tracking and Disturbance Rejection for Quadrotor Helicopter by A Novel Method</i>	13:50–14:10	He, Changran Huang, Jie	The Chinese Univ. of Hong Kong Chinese Univ. of Hong Kong, China
► TuA25-1 <i>Robust Stability Analysis for CVNs with Leakage and Probabilistic Delays</i>	13:30–13:50	Li, Qiang Liang, Jinling	Southeast Univ. Southeast Univ.	► TuA26-3 <i>Social Profit Optimization of Competitive Electricity Market: A Leader-following Approach</i>	14:10–14:30	Wang, Jianzheng Pang, Yipeng Hu, Guoqiang	Nanyang Technological Univ. Nanyang Technological Univ. Nanyang Technological Univ.
► TuA25-2 <i>Innovation-Modified Kalman Filtering for A Class of Stochastic Nonlinear Systems</i>	13:50–14:10	Li, Xin Wang, Licheng Ding, Derui	Univ. of Shanghai for Sci. & Tech. Univ. of Shanghai for Sci. & Tech. Univ. of Shanghai for Sci. & Tech.	► TuA26-4 <i>On the Modulus Consensus of Multi-agent Systems with Double-Integrator Kinematics in Three-Dimensional Space under Linear Control</i>	14:30–14:50	Hou, Tan Li, Yuanlong Shi, Liangren	Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.
► TuA25-3 <i>Distributed Set-Membership Filtering for Nonlinear Systems Subject to Stochastic Communication Protocol over Sensor Networks</i>	14:10–14:30	Ma, Yuqi Ma, Lifeng Wang, Yiwen Liu, Lei Zhang, Jie	Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech.	► TuA26-5 <i>Ripple-Free Sampled-Data Output Regulation: Stability Analysis and Sampling Period Estimation</i>	14:50–15:10	Chen, Ke Xu, Dabo Su, Youfeng	Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Fuzhou Univ.
► TuA25-4 <i>Circulating Current Suppression for MMC with Hybrid Particle Swarm Optimization</i>	14:30–14:50	Li, Chao Zhang, Yong Liu, Zhenxing Zhang, Xiongxi	Wuhan Univ. of Sci. & Tech. Wuhan Univ. of Sci. & Tech. WuHan Univ. of Sci. & Tech. Wuhan Univ. of Sci. & Tech.	► TuA26-6 <i>Constructive Design for Reachability of Reversible Discrete-Time Switched Linear Systems</i>	15:10–15:30	Zhu, Yan Sun, Zhendong	AMSS, CAS Acad. of Mathematics & Sys. Sci.
► TuA25-5 <i>Ultimate Boundedness Control for Networked Systems with Redundant Channel under Quantization Effects</i>	14:50–15:10	Zhao, Zhongyi Wang, Zidong Zou, Lei Dong, Hongli	Shandong Univ. of Sci. & Tech. Tsinghua Univ. Shandong Univ. of Sci. & Tech. Northeast Petroleum Univ.	TuA27 Invited Session: Iterative Method in Control System Design	13:30–15:30 Room 3418, Block 3	Organizer: Wu, Ai-Guo Organizer: Zhang, Ying	Harbin Inst. of Tech. Shenzhen Graduate School Harbin Inst. of Tech. Shenzhen Graduate School
► TuA25-6 <i>Resilient H_∞ State Estimation for State-Saturated Systems: A Dynamic Event-Triggered Approach</i>	15:10–15:30	Liu, Yufei Li, Qi Shen, Bo	Donghua Univ. Donghua Univ. Donghua Univ.	Chair: Wu, Ai-Guo Co-Chair: Zhang, Ying	Harbin Inst. of Tech. Shenzhen Graduate School Harbin Inst. of Tech. Shenzhen Graduate School		
► TuA25-7 <i>Hidden-Markov-model-based Finite-time Fault Detection for Networked Singularly Perturbed Systems</i>	15:30–15:50	Li, Jiankang Wan, Xiongbo	China Univ. of GeoSci. China Univ. of GeoSci.	► TuA27-1 <i>Identification Methods for Transfer Function Estimation Using Dual-rate Sampled Data</i>	13:30–13:50	Zhang, Yong Zhang, Bin Chen, Ruiyang Ren, Yan	Inner Mongolia Univ. of Sci. & Tech. Inner Mongolia Univ. of Sci. & Tech. Inner Mongolia Univ. of Sci. & Tech. Inner Mongolia Univ. of Sci. & Tech.
				► TuA27-2 <i>Application of Compound HSMDO in Line-of-Sight Stabilization</i>	13:50–14:10	Ren, Yan Wang, Yimin Xie, Dong Zhang, Yong	Inner Mongolia Univ. of Sci. & Tech. Inner Mongolia Univ. of Sci. & Tech. Inner Mongolia Univ. of Sci. & Tech. Inner Mongolia Univ. of Sci. & Tech.
				► TuA27-3 <i>A Note on Matrix Equation and Its Control Application</i>	14:10–14:30		

Song, Caiqin Wang, Xiaodong	Univ. of Jinan , Shandong Normal Univ.	16:10–16:30
► TuA27-4 <i>A Filtering Based Recursive Extended Least Squares Identification Algorithm</i>	14:30–14:50	
Wu, Ai-Guo Ji, You-Zhou Dong, Xi	Harbin Inst. of Tech. Shenzhen Graduate School Harbin Inst. of Tech., Shenzhen Harbin Inst. of Tech., Shenzhen	
► TuA27-5 <i>Convergence Characterization of An Iterative Algorithm for Continuous Coupled Lyapunov Matrix Equations</i>	14:50–15:10	
You, Shun-Qiang Zhang, Ying Wu, Aiguo	Harbin Inst. of Tech., Shenzhen Harbin Inst. of Tech. Shenzhen Graduate School Harbin Inst. of Tech.	
► TuA27-6 <i>Event-triggered Control for A Class of Second-order Uncertain P-normal Nonlinear Systems</i>	15:10–15:30	
Jiang, Wei Li, Ting Zhao, Zhenhua Yang, Jun	Wuxi Vocational Inst. of Arts & Tech. Southeast Univ. Nanjing Univ. of Aeronautics & Astronautics Southeast Univ.	
DF4	15:50–17:50	Dongguan Hall, L2, Block 4
发展论坛4		
Development Forum 2		
Chair: Qi, Juntong	Tianjin University, China	
► DF-4 空中机器人研究和应用进展论坛	15:50–17:50	
Quan, Quan Chirarattananon, Pakpong Xu, Chao Cai, Guowei Qi, Juntong	Beihang University, China City University of Hong Kong, China Zhejiang University, China Fujian AeroTiger UAV Co., Ltd Tianjin University, China	
TuB01	15:50–17:50	Room 3301, Block 3
Regular Session: Distributed Parameter Systems (1)		
Chair: Shao, Keyong Co-Chair: Zhou, Hua-Cheng	Northeast Petroleum Univ. Central South Univ.	
► TuB01-1 <i>Exact Controllability for A Coupled System of N Euler-Bernoulli Plates with Variable Coefficients</i>	15:50–16:10	
Yang, Fengyan Yao, Pengfei	Chinese Acad. of Sci. Chinese Acad. of Sci.	
► TuB01-2 <i>Output Feedback Exponential Stabilization for 1D Wave Equation with Unknown Anti-damping Subject to Boundary Disturbance</i>	16:10–16:30	
Zhou, Hua-Cheng	Central South Univ.	
► TuB01-3 <i>Passive Synchronization Control for Integer-order Chaotic Systems and Fractional-order Chaotic Systems</i>	16:30–16:50	
Shao, Keyong Bu, Ruixuan Gao, Wang Wang, Qutong Zhang, Yi	Northeast Petroleum Univ. Northeast Petroleum Univ. Northeast Petroleum Huazhong Univ. of Sci. & Tech. Northeast Petroleum Univ.	
► TuB01-4 <i>Finite-time Synchronization and Parameter Identification of Fractional-order Lorenz Chaotic System</i>	16:50–17:10	
Shao, Keyong Zhou, Liyuan Guo, Haoxuan Xu, Zihui Chen, Ruoyu	Northeast Petroleum Univ. Northeast Petroleum Univ. Northeast Petroleum Univ. Northeast Petroleum Univ. Northeast Petroleum Univ.	
TuB02	15:50–17:50	Room 3302, Block 3
Regular Session: Nonlinear Systems and Control (6)		
Chair: Xie, Xue-Jun Co-Chair: Hua, Changchun	Qufu Normal Univ. Yanshan Univ.	
► TuB02-1 <i>Global Leaderless Consensus Control for Nonholonomic Mobile Robots: A General Theory for Gains Selection</i>	15:50–16:10	
He, Xiaodong Geng, Zhiyong	Peking Univ. Peking Univ.	
► TuB02-2 <i>Certain SPMSM Servo System Passive Control Using IPSO Fuzzy Active Disturbance Rejection Technique</i>	16:10–16:30	
Wang, Ronglin Sheng, Guoliang Zhang, Zhaodong Lu, Baochun Gao, Qiang Hou, Runmin	Nanjing Univ. of Sci. & Tech. Nanjing Inst. of Tech. Yangzhou Vocational Univ. Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech.	
► TuB02-3 <i>Output Feedback Control of Uncertain Feedforward Nonlinear Time-delay Systems with Unknown Output Function</i>	16:30–16:50	
Guo, Chao Xie, Xue-Jun	Qufu Normal Univ. Qufu Normal Univ.	
► TuB02-4 <i>Output Feedback Prescribed Performance Control for Time Delay Interconnected Systems with Unknown Control Directions</i>	16:50–17:10	
Tian, Danyang Li, Yafeng Hua, Changchun Meng, Rui Guan, Xinping	Inst. of Electrical Engineering, Yanshan Univ., Yanshan Univ. Yanshan Univ. Inst. of Electrical Engineering Shanghai Jiao Tong Univ.	
► TuB02-5 <i>Backstepping-based H_∞ Tracking Control for Single-link Flexible Joint Manipulators</i>	17:10–17:30	
Zhang, Lipeng Li, Xiaohua Liu, Hui Wang, Aoxiang Cao, Xiaojie	Univ. of Sci. & Tech. Liaoning Univ. of Sci. & Tech. Liaoning	
► TuB02-6 <i>Nussbaum Gain Adaptive Control for Nonlinear Systems with State Constraints and Input Saturation</i>	17:30–17:50	
Wu, You Xie, Xue-Jun	Qufu Normal Univ. Qufu Normal Univ.	
TuB03	15:50–17:50	Room 3303, Block 3
Regular Session: Robust Control		
Chair: Liu, Da-Yan Co-Chair: Zhong, Jiaqi	INSA Centre Val De Loire Chongqing Univ. of Posts & Telecommunications	
► TuB03-1 <i>Non-asymptotic Fractional Pseudo-state Differentiator for A Class of Fractional Order Linear Systems</i>	15:50–16:10	
Wei, Yan-Qiao Liu, Da-Yan Boutat, Driss Liu, Haoran	INSA Centre Val De Loire INSA Centre Val De Loire INSA Centre Val De Loire Yanshan Univ.	
► TuB03-2 <i>Receding Horizon H-infinity Guaranteed Cost Control for Uncertain Distributed Parameter Systems with Actuator Saturation</i>	16:10–16:30	
Zhong, Jiaqi Yuan, Yupeng Liu, Rongxiang Wu, Tao Wen, Shengfu	Chongqing Univ. of Posts & Telecommunications Ltd, China Electronics Tech. Group Corporation Chongqing Univ. of Posts & Telecommunications Chongqing Univ. of Posts & Telecommunications Chongqing Univ. of Posts & Telecommunications	
► TuB03-3 <i>Non-asymptotic Estimation for Positions and Velocities from Noisy Accelerations for A Class of Linear Systems</i>	16:30–16:50	
Tian, Yang Liu, Da-Yan Boutat, Driss	Liaoning Engineering Vocational College INSA Centre Val De Loire INSA Centre Val De Loire	
► TuB03-4 <i>Robust Gain-Scheduling Control for Type 1 Diabetes Model with External Disturbance</i>	16:50–17:10	
Li, Xin Xue, Yu Zhang, Xian Wang, Xin	Univ. of Shanghai for Sci. & Tech. Heilongjiang Univ. Heilongjiang Univ. Heilongjiang Univ.	
► TuB03-5 <i>EID-based Robust Stabilization for A Class of Uncertain Nonlinear Systems with Disturbance</i>	17:10–17:30	

Tian, Shengnan Wu, Min Chen, Luefeng She, Jinhua Zhang, Manli	Inst. of Automation China Univ. of GeoSci. China Univ. of GeoSci. Tokyo Univ. of Tech. China Univ. of GeoSci.	Zhang, Zhi Wang, Lihui	Harbin Engineering Univ. Harbin Engineering Univ.
TuB04 15:50–18:10	Room 3305, Block 3		16:50–17:10
Regular Session: Intelligent Robots (3)			Bus Priority Signal Control of Boundary Intersections Using Colored Petri Net
Chair: Su, Weizhou Co-Chair: Bi, Luzheng	South China Univ. of Tech. Beijing Inst. of Tech.	Zhong, Lin Fu, Hui	Guangdong Univ. of Tech. Guangdong Univ. of Tech.
► TuB04-1 15:50–16:10			17:10–17:30
<i>Position Solution and Motion Simulation for Rock Drilling Arm</i>			A Distributed Optimization Algorithm for Model Predictive Control Problem of Linear Systems under Communication Noise
Tang, Zhilin An, Jianqi	China Univ. of Geosciences China Univ. of GeoSci.	Jin, Bo Li, Huiping Yan, Weisheng	Northwestern Polytechnic Univ. Northwestern Polytechnical Univ. Northwestern Politecnical Univ.
► TuB04-2 16:10–16:30			17:30–17:50
<i>Robust Optimal Control of Omni-directional Mobile Robot Using Model Predictive Control Method</i>			Distributed Model Predictive Control for Multiple Unmanned Ground Vehicles Formation with Packet Loss
Han, Yu Zhu, Qidan	Harbin Engineering Univ. Harbin Engineering Univ.	Meng, Zhuo Hu, Chaofang Cao, Lei Wang, Na	Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Polytechnic Univ.
► TuB04-3 16:30–16:50			
<i>Multi-robot Path Planning Based on Improved Artificial Potential Field and B-spline Curve Optimization</i>			TuB06 15:50–17:50
Wu, Zicong Su, Weizhou Li, Junhui	South China Univ. of Tech. South China Univ. of Tech. South China Univ. of Tech.	Room 3307, Block 3	Regular Session: Fault Diagnosis and Reliable Control (3)
► TuB04-4 16:50–17:10			Chair: He, Xiao Co-Chair: Liu, Xiaofeng
<i>Autonomous Navigation with Improved Hierarchical Neural Network Based on Deep Reinforcement Learning</i>			15:50–16:10
Zhang, Haiying Qiu, Tenghai Li, Shuxiao Zhu, Chengfei Lan, Xaosong Chang, Hongxing	Chinese Acad. of Sci. Beihang Univ. Chinese Acad. of Sci. Chinese Acad. of Sci. Chinese Acad. of Sci. Inst. of Automation, Chinese Acad. of Sci.	Shao, Junfeng Chen, Tianrui Wang, Cong	Fast Fault Diagnosis for Power Systems Using Deterministic Learning
► TuB04-5 17:10–17:30			16:10–16:30
<i>Survey on Key Technology of Robocup Rescue Robot</i>			Adaptive Fault Tolerant Control for A Quadrotor under Actuator Fault
Zhang, Xuexi An, Yuming Fu, Genping Lu, Guokun Liang, Shiliu	Guangdong Univ. of Tech. Guangdong Univ. of Tech. Zhongkai Univ. of Agriculture & Engineering Guangdong Univ. of Tech. Guangdong Univ. of Tech.	Wang, Xian Zhao, Jing Qian, Juan Xie, Fei Fu, Jian	16:30–16:50
► TuB04-6 17:30–17:50			Kalman-based Fault-tolerant Control System for Aeroengines
<i>SLAM Algorithm Analysis of Mobile Robot Based on Lidar.</i>			16:50–17:10
Zhang, Xuexi Lu, Guokun Fu, Genping Xu, Dongliang Liang, Shiliu	Guangdong Univ. of Tech. Guangdong Univ. of Tech. Zhongkai Univ. of Agriculture & Engineering Guangdong Univ. of Tech. Guangdong Univ. of Tech.	Liu, Xiaofeng	17:10–17:30
► TuB04-7 17:50–18:10			Canonical Correlation Analysis and Key Performance Indicator Based Fault Detection Scheme with Application to Marine Diesel Supercharging Systems
<i>Model Predictive-Based Collaborative Control for Brain-Controlled Vehicles</i>			17:30–17:50
Bi, Luzheng	Beijing Inst. of Tech.	He, Zhichen Yang, Ying Qiao, Liang Zhang, Yuhuan Han, Huayun Li, He Yang, Yang Liu, Zijie	Fault Diagnosis of Rolling Bearing Based on EEMD Information Entropy and Improved SVM
TuB05 15:50–17:50	Room 3306, Block 3	Chongqing Jiaotong Univ. Chongqing Jiao-tong Univ. Chongqing Jiaotong Univ.	17:10–17:30
Regular Session: Predictive Control (2)			TuB06-5 15:50–17:50
Chair: Li, Huiping Co-Chair: Zhong, Lin	Northwestern Polytechnical Univ. Guangdong Univ. of Tech.	Chen, Ruyi Huang, Darong Zhao, Ling	<i>Rotating Machinery Fault Diagnosis Based on Manifold Learning Using Semi-supervised Local Linear Embedding</i>
► TuB05-1 15:50–16:10			17:30–17:50
<i>Guaranteed Performance of Decentralized Model Predictive Control for Power Flow Systems</i>			17:30–17:50
He, Ye Li, Shaoyuan	Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.	Jia, Fanlin Guo, Yaqi He, Xiao	Tsinghua Univ. Tsinghua Univ. Tsinghua Univ.
► TuB05-2 16:10–16:30			
<i>A Prediction Method for Blood Glucose Based on Grey Wolf Optimization Evolving Kernel Extreme Learning Machine</i>			TuB07 15:50–17:50
Chen, Xiaoyu Tuo, Jianyong Wang, Youqing	Beijing Univ. of Chemical Tech. Beijing Univ. of Chemical Tech. -	Chair: Zou, Feng Co-Chair: Yang, Zan	Room 3308, Block 3
► TuB05-3 16:30–16:50			Regular Session: Big Data Analysis and Control
抑制主观风险的舰载机自动着舰纵向预测控制			Chair: Zou, Feng Co-Chair: Yang, Zan
<i>The MPC with Inhibiting Subjective Risk in Aircraft Landing Vertical Control</i>			15:50–16:10
Wang, Lipeng	Harbin Engineering Univ.	Yang, Zan	<i>Application of Logistic Regression with Filter in Data Classification</i>

Li, Dan	Tongji Zhejiang College	Li, Weixun	Tianjin Univ. of Tech. & Education																																																																																																																																																																																																												
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Zou, Feng	Huaibei Normal Univ.	► TuB09-4	16:50–17:10																																																																																																																																																																																																												
Chen, Debao	Huaibei Normal Univ.	<i>Deep Metric Learning with Dynamic Margin Hard Sampling Loss</i>																																																																																																																																																																																																													
Zhao, Yongqi	Huaibei Normal Univ.	Yu, Jian	Nanjing Univ. of Posts & Telecommunications					Hu, Chang-Hui	Nanjing Univ. of Posts & Telecommunications			Jing, Xiaoyuan	Nanjing Univ. of Post & Telecommunications			Zhou, Guang Liang	Nanjing Univ. of Posts & Telecommunications			Jing, Shen	Nanjing Univ. of Posts & Telecommunications	TuB08	15:50–17:50			Regular Session: Navigation and Guidance (6)				Chair: Wang, Bo	Beijing Inst. of Tech.	► TuB09-5	17:10–17:30	Co-Chair: Li, Yi	Beihang Univ.	<i>A Fast Quantity and Position Detection Method Based on Monocular Vision for A Workpieces Counting and Sorting System</i>			► TuB08-1	15:50–16:10			<i>Modeling and Analysis of Measurements of Tightly Coupled GPS/SINS Integrated Navigation System</i>				Guo, Yanbing	Beijing Inst. of Tech.	Wang, Xin	Beijing Inst. of Tech.	Miao, Ling-Juan	Beijing Inst. of Tech.,	Li, Baokui	Beijing Inst. of Tech.	Zhang, Xi	Qianxun SI Inc	Ma, Hongbin	Beijing Inst. of Tech.			Luo, Man	Beijing Inst. of Tech.	► TuB08-2	16:10–16:30			<i>Virtual Heading Directions Based Adaptability Analysis Method for Gravity-aided Navigation</i>				Zhou, Minglong	Beijing Inst. of Tech.	► TuB09-6	17:30–17:50	Wang, Bo	Beijing Inst. of Tech.	<i>An Efficient Method for Boundary Points Detection Based on Data Expression</i>			► TuB08-3	16:30–16:50			<i>Stereovision-based Relative Motion Estimation between Non-cooperative Spacecraft</i>				Li, Yi	Beihang Univ.	Li, Pinjie	Tsinghua Univ.	Jia, Yingmin	BeiHang Univ., China	Zhang, Tao	Tsinghua Univ.			Wang, Huangang	Tsinghua Univ.	► TuB08-4	16:50–17:10			<i>Feedback Linearization with Active Disturbance Rejection for Entry Guidance</i>				Li, Xiang	Nanjing Univ. of Aeronautics & Astronautics	Yang, Lingyun	GUIZHOU CASICLOUD-thch Co.,Ltd	Xu, Biao	Nanjing Univ. of Aeronautics & Astronautics			Li, Shuang	Nanjing Univ. of Aeronautics & Astronautics			► TuB08-5	17:10–17:30			<i>The Design Factor Analysis of A Miniaturized Rotating Guided Ammunition Actuator</i>				Gao, Hao	Beijing Information Sci. & Tech. Univ.	Tang, Zhaohui	Central South Univ.	Fan, Jun-Fang	Beijing Information Sci. & Tech. Univ.	Niu, Yahui	Central South Univ.			Xie, Yongfang	Central South Univ.	► TuB08-6	17:30–17:50			<i>Multi-objective Trajectory Optimization Method of Parafoil Based on Particle Swarm Algorithm</i>				Zhang, Limin	Liaoning Technical Univ.	Tang, Liyong	Central South Univ.	Gao, Haitao	Anhui Sci. & Tech. Univ.			TuB10	15:50–18:30			Regular Session: New Energy Technology and Control in Environment (2)				Chair: Huang, Darong	Chongqing Jiao-tong Univ.			Co-Chair: Zhuo, Wenhao	The Univ. of New South Wales			► TuB10-1	15:50–16:10			<i>Online Pricing Mechanism for Electric Vehicles Charging Based on Operational Condition of A Charging Station</i>				Fan, Honglin	Southern Univ. of Sci. & Tech.	Fan, Honglin	Southern Univ. of Sci. & Tech.	You, Pengcheng	Zhejiang Univ.	Guo, Zhenwei	Zhejiang Univ., Hangzhou	Guo, Zhenwei		Chen, Shibo	Southern Univ. of Sci. & Tech.	Chen, Shibo		Yang, Zaiyue	Southern Univ. of Sci. & Tech.	► TuB10-2	16:10–16:30			<i>Artificial Neural Network Based Maximum Power Point Tracking for PV System</i>				Alwesabi, Ibrahim	China Univ. Of GeoSci. (Wuhan)		
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Ding, Min Jin, Xiaoling Dai, Xianzhong Abu Sarhan, Mohammed Shafik, Mohammed Zhou, Hao	China Univ. of GeoSci. (Wu Han) State Grid Energy Research Inst. State Grid Energy Research Inst. China Univ. of GeoSci. (Wuhan) Wuhan Univ. Wuhan, China China Univ. of GeoSci.	16:30–16:50	► TuB11-4 <i>Adaptive Consensus Control for Nonlinear Multi-agent Systems with Unknown Control Directions</i> Wang, Qingling Zheng, Yajun Sun, Changyin	16:50–17:10 Southeast Univ. Southeast Univ. Southeast Univ.
► TuB10-3 <i>Control of A Microgrid with A Renewable Energy Source, A Battery Energy Storage and Thermostatically Controlled Loads</i>	Zhuo, Wenhao Savkin, Andrey	The Univ. of New South Wales Univ. of New South Wales	16:50–17:10	Zhang, Chunyan Li, Yinya Qi, Guoqing Sheng, Andong
► TuB10-4 <i>Oxygen Partial Pressure Estimation of the Cathode Channel for PEM Fuel Cell Systems</i>	Hong, Ling Liu, Zhiyang Zheng, Weijian Wu, Rongmin Chen, Jian	Zhejiang Energy R&D Inst. Zhejiang Univ. Zhejiang Energy R&D Inst. Zhejiang Energy R&D Inst. Zhejiang Univ.	17:10–17:30	Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech. Nanjing Univ. of Sci. & Tech.
► TuB10-5 <i>Energy Consumption Analysis and Energy-saving Reconstruction of New Wall of Prefabricated Single Building in Heating Season</i>	Jin, Qiang Huang, Darong Deng, Zhenping Su, Yue Wu, Huadong	Chongqing Jiaotong Univ. Chongqing Jiao-tong Univ. Chongqing Jiaotong Univ. Chongqing Jiaotong Univ. Chongqing Zhiku Zhizao Integrated Housing Company	17:10–17:30	Xu, Xiaoling Yang, Lixin Meng, Wei Cai, Qianqian Fu, Minyue
► TuB10-6 <i>Energy-Efficiency Maximization of MIMO System with Simultaneous Wireless Information and Power Transfer</i>	Xia, Xianyu	Chongqing Real Estate College	17:30–17:50	Guangdong Univ. of Tech. Guangdong Univ. of Tech. Guangdong Univ. of Tech. Guangdong Univ. of Tech. The Univ. of Newcastle
► TuB10-7 <i>On Distributed Event-based Optimization for Shared Economy in Cyber-physical Energy Systems (SCIS)</i>	Jia, Qing-Shan Wu, Junjie	Tsinghua Univ. Tsinghua Univ.	17:50–18:10	Pan, Huan Liu, Zhicong Na, Chunning
► TuB10-8 <i>Energy Balancing Using Charge/discharge Storages Control and Load Forecasts in A Renewable-energy-based Grids</i>	Sidorov, Denis Tao, Qing Muftahov, Ildar Zhukov, Aleksei Karamov, Dmitriy Aliona, Dreglea Liu, Fang	Russian Acad. of Sci. Central South Univ. ESI SB RAS Siberian Branch of the Russian Acad. of Sci. Melentiev Energy Sys. Inst. Russian Acad. of Sci. Central South Univ.	18:10–18:30	► TuB12 Chair: Liu, Song Inst. of Advanced Control & Intelligent Automation Co-Chair: Shi, Shuo Nanjing Univ. of Posts & Telecommunications
TuB11 15:50–18:10	Room 3313, Block 3			
Regular Session: Multi-Agent Systems and Distributed Control (6)				
Chair: Pan, Huan Co-Chair: Wang, Qingling	Ningxia Univ. Southeast Univ.			
► TuB11-1 <i>Impact of Measurement Noise on Networked Iterative Learning Control Systems</i>	Zhang, Yamiao Liu, Jian Ruan, Xiaoe	Xi'an Jiaotong Univ. Xidian Univ. Xi'an Jiaotong Univ.	15:50–16:10	► TuB12-1 <i>Bifurcation Analysis of A Fractional Order Gene Regulatory Network with Multiple Delays</i> Shi, Shuo Si, Linzhi Xiao, Min
► TuB11-2 <i>Probabilistic Plan Recognition under Temporal Logic Tasks</i>	Yu, Wentao Fang, Hao Tian, Daiying	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.	16:10–16:30	Nanjing Univ. of Posts & Telecommunications Nanjing Univ. of Posts & Telecommunications Nanjing Univ. of Posts & Telecommunications
► TuB11-3 <i>Exponential Input-to-state Stability of Impulsive Stochastic Fuzzy Cohen-Grossberg Neural Networks with Distributed Infinite Transmission Delays</i>	Zhou, Weisong	Chongqing Univ. of Posts & Telecommunications	16:30–16:50	► TuB12-2 <i>Identification of Protein Complex Based on Multi-label Learning Algorithm</i> Zhu, Yuan Liu, Song
				16:10–16:30 China Univ. of GeoSci. Inst. of Advanced Control & Intelligent Automation
				► TuB12-3 基于一种三态模型的基因调控网络结构辨识 <i>Structure Identification of GRNs with A Tri-State Model</i> Yin, Kailin Zhou, Tong
				16:30–16:50 Tsinghua Univ. Tsinghua Univ.
				► TuB12-4 <i>Monocular 3D Reconstruction of Human Body</i> Zhang, Yuqi Li, Dewei Jin, Bihui Xu, Yunwen Xue, Shibei
				16:50–17:10 Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.
TuB13 15:50–17:50	Room 3401, Block 3			
Regular Session: Aircraft Control (6)				
Chair: Xu, Bin Co-Chair: Hu, Chaofang	Northwestern Polytechnical Univ. Tianjin Univ.			
► TuB13-1 <i>Adaptive Hypersonic Flight Control under Asymmetric AOA Constraint</i>	Guo, Yuyan Xu, Bin Wang, Yueping Hu, Xiaoxiang Feng, Hao Fan, Yong Hua	Northwestern Polytechnical Univ. Northwestern Polytechnical Univ. Flight Automatic Control Research Inst. Inertial Tech. Research Center Shanghai Aerospace Control Tech. Inst. Northwestern Polytechnical Univ.	15:50–16:10	
► TuB13-2 <i>Fault-tolerant Control for Disturbed Hypersonic Vehicle Based on Tube-MPC</i>	Wei, Xiaofang Hu, Chaofang	Tianjin Univ. Tianjin Univ.	16:10–16:30	

Wang, Na	Tianjin Polytechnic Univ.	
► TuB13-3	16:30–16:50	
A Comparative Study of Gust Load Alleviation of UAV Based on LPV and MPC Controller		
Wang, Lijian	Northwestern Polytechnical Univ.	
Tang, Wei	Northwestern Polytechnical Univ.	
Wang, Yu	Northwestern Polytechnical Univ.	
Liang, Jiahua	Northwestern Polytechnical Univ.	
Li, Ze	Northwestern Polytechnical Univ.	
Cui, Mao	Northwestern Polytechnical Univ.	
► TuB13-4	16:50–17:10	
Adaptive Region Growing for Unmanned System		
Wang, Tao	Xi'an Jiao Tong Univ.	
Cao, Hui	Xi'an Jiao Tong Univ.	
Yan, Xingyu	Xi'an Jiao Tong Univ.	
Ma, Yanqing	Xi'an Jiao Tong Univ.	
Wang, Weizhi	Xi'an Jiaotong Univ.	
TuB14	15:50–17:50	Room 3402, Block 3
Regular Session: System Simulation, Integration and Evaluation (2)		
Chair: Ren, Xiaoping	National Inst. of Metrology	
Co-Chair: Li, Bing	Beihang Univ.	
► TuB14-1	15:50–16:10	
Linking of Comparison Measurement Data Based on Monte Carlo Method		
Ren, Xiaoping	National Inst. of Metrology	
Yang, Yun	National Center for Sci. & Tech. Evaluation	
Chi, Jingru	National Center for Sci. & Tech. Evaluation	
Li, Ziyu	National Center for Sci. & Tech. Evaluation	
Yang, Dong	National Inst. of Metrology	
Yang, Fan	National Inst. of Metrology	
Chen, Ping	National Inst. of Metrology	
► TuB14-2	16:10–16:30	
Research and Simulation of Bidirectional Conversion between Electric Energy and Hydraulic Energy of Aircraft Secondary Energy		
Li, Bing	Beihang Univ.	
Sang, De-Bin	Beijing Aerospace Automatic Control Inst.	
Gao, Yeye	Beijing Aerospace Automatic Control Inst.	
Sun, Hongyun	CALT	
Bai, Yunfei	Beijing Aerospace Automatic Control Inst.	
► TuB14-3	16:30–16:50	
HeROS: A Simulation Platform for Heterogeneous Robotic Swarms		
Li, Shuai	Peking Univ.	
Wan, Yuanfang	Peking Univ.	
He, Pengzhou	Univ. of Sci. & Tech. Beijing	
Wang, Chen	Peking Univ.	
Sun, Jinan	Peking Univ.	
Zhang, Yanling	Univ. of Sci. & Tech. Beijing	
Li, Xuyang	Xi'an Bibang Intelligent Tech. Co., Ltd	
Xie, Guangming	Peking Univ.	
► TuB14-4	16:50–17:10	
Indifference-Zone-Free Procedure for Constrained Selection of the Best Problem		
Cheng, Zhenxia	Antai College of Economics & Management, Shanghai Jiao Tong Univ.	
► TuB14-5	17:10–17:30	
Automatic Detection of Jet Stream on Numerical Data		
Wang, Pingping	Tianjin Univ.	
Wang, Ping	Tianjin Univ.	
Wang, Cong	Tianjin Univ.	
TuB15	15:50–17:50	Room 3403, Block 3
Regular Session: Game Theory and Social Networks (2)		
Chair: Han, Jing	Acad. of Mathematics & Sys. Sci., CAS	
Co-Chair: Chen, Binbin	Shandong Univ. of Finance & Economics	
► TuB15-1	15:50–16:10	
Application of ZD Strategy in Mining Pool Game		
Cao, Mengwen	Zhejiang Normal Univ.	
Tang, Changbing	Zhejiang Normal Univ.	
Liu, Yang	Zhejiang Normal Univ.	
Lin, Feilong	Zhejiang Normal Univ.	
Chen, Zhongyu	Zhejiang Normal Univ.	
► TuB15-2	16:10–16:30	
Social Media Marketing Dynamics of PHSU Model on Scale-free Networks		
Hou, Jingrui	Huazhong Univ. of Sci. & Tech.	
Yan, Jiayuan	Huazhong Univ. of Sci. & Tech.	
Zhang, Dingxue	Yangtze Univ.	
Cheng, Xin-Ming	Central South Univ.	
Li, Tao	Yangtze Univ.	
He, Dingxin	Huazhong Univ. of Sci. & Tech.	
► TuB15-3	16:30–16:50	
The Impact of Short-term Traders on Equilibrium Multiplicity and Market Efficiency		
Chen, Binbin	Shandong Univ. of Finance & Economics	
Liu, Fang	Shandong Univ. of Finance & Economics	
Liu, Shancun	Beihang Univ.	
► TuB15-4	16:50–17:10	
Improved Theoretical Game Tree Model for the Study of "Knowing More is Less"		
Weng, Yuhao	Inst. of Sys. Sci., AMSS, CAS	
Han, Jing	Acad. of Mathematics & Sys. Sci., CAS	
► TuB15-5	17:10–17:30	
Leader-follower Game in the Airlines When the Add-on is Unbundled from the Flight Ticket		
Zhang, Zichen	Shenyang Aerospace Univ.	
Chen, Peng	Shenyang Aerospace Univ.	
Luo, Xinggang	Hangzhou Dianzi Univ.	
Zhao, Liqiang	Shenyang Aerospace Univ.	
Yu, Yang	Northeastern Univ.	
TuB16	15:50–17:50	Room 3405, Block 3
Invited Session: Distributed Learning and Control for Network Systems		
Organizer: He, Jianping	Shanghai Jiao Tong Univ.	
Organizer: Zhao, Chengcheng	Zhejiang Univ.	
Organizer: Peng, Jun	Hunan	
Chair: Gao, Lixin	Wenzhou Univ.	
Co-Chair: Liu, Peng	Southeast Univ.	
► TuB16-1	15:50–16:10	
Configuration Design of Bilinear Networked Systems with Minimum Cost Constraints		
Liu, Peng	Southeast Univ.	
Niu, Xinglong	North Univ. of China	
Ren, Yi-Feng	North Univ. of China	
► TuB16-2	16:10–16:30	
Obstacle Intrusion Detection on Railway Track Using Commodity Wireless Network		
Xie, Jin	Changsha Univ. of Sci. & Tech.	
Li, Shuo	Changsha Univ. of Sci. & Tech.	
Ma, Yunfei	Changsha Univ. of Sci. & Tech.	
► TuB16-3	16:30–16:50	
Weighted Consensus Problem for Multi-agent Systems		
Gao, Lixin	Wenzhou Univ.	
Cao, He	Wenzhou Univ.	
Fang, Hui	Wenzhou Univ.	
Chen, Wenhui	Wenzhou Univ.	
► TuB16-4	16:50–17:10	
A Chaotic Adaptive Particle Swarm Optimization for Robot Path Planning		
Lian, Jianfang	Central South Univ. of Forestry & Tech.	
Yu, Wentao	Central South Univ.	
Liu, Weirong	Central South Univ.	
► TuB16-5	17:10–17:30	
A Control Method of Mobile Wireless Charging for Connected EVs Travelling on Freeway		
Xu, Guotao	Changsha Univ. of Sci. & Tech.	
Gao, Kai	Acad. of Information Sci. & Engineering, Central South Univ.	
Han, Farong	Changsha Univ. of Sci. & Tech.	
Yan, Di	Changsha Univ. of Sci. & Tech.	

TuB17	16:50–18:10	Room 3406, Block 3	
Invited Session: Multi-Agent Systems: Modeling and Control			
Organizer: Ghosh, Bijoy	Texas Tech Univ.		16:30–16:50
Organizer: Hu, Xiaoming	Royal Inst. of Tech.	Northeastern Univ.	
Chair: Hu, Jiangping	Univ. of Electronic Sci. & Tech. of China	Northeastern Univ.	
Co-Chair: Chen, Zihan	Chinese Acad. of Sci.	Northeastern Univ.	
► TuB17-1	16:50–17:10	Jia, Zixi	Northeastern Univ.
<i>Delayed Consensus Control of High-Order Multi-Agent Systems via Distributed Reduced-Order Observer</i>			
Wang, Qiuzhen	Univ. of Electronic Sci. & Tech. of China	Gao, Na	Northeastern Univ.
Hu, Jiangping	Univ. of Electronic Sci. & Tech. of China	Chi, Jianning	Northeastern Univ.
Ghosh, Bijoy	Texas Tech Univ.	Wu, Cheng Dong	Northeastern Univ.
► TuB17-2	17:10–17:30	Yu, Xiaosheng	Northeastern Univ.
<i>Fuzzy Hegselmann-Krause Opinion Dynamics with Opinion Leaders</i>			
Lu, Yi	Univ. of Electronic Sci. & Tech. of China	Jia, Zixi	Northeastern Univ.
Zhao, Yiyi	Southwestern Univ. of Finance & Economics	► TuB19-2	16:50–17:10
Zhang, Jiangbo	Acad. of Mathematic & Sys. Sci., C.A.S	A <i>Fast Hybrid-kernel Correlation Filter Tracking Algorithm</i>	
Hu, Jiangping	Univ. of Electronic Sci. & Tech. of China	Gao, Na	Northeastern Univ.
Hu, Xiaoming	Royal Inst. of Tech.	Chi, Jianning	Northeastern Univ.
► TuB17-3	17:30–17:50	Wu, Cheng Dong	Northeastern Univ.
<i>Opinion Evolution Depending on Conformity Tendency and Individual Susceptibility</i>			
Chen, Zihan	Chinese Acad. of Sci.	Yu, Xiaosheng	Northeastern Univ.
Xing, Yu	Inst. of Sys. Sci., Chinese Acad. of Sci.	► TuB19-3	17:10–17:30
Hong, Yiguang	Chinese Acad. of Sci.	Deep <i>Residual Network Based Medical Image Reconstruction</i>	
► TuB17-4	17:50–18:10	Zhang, Yifei	Northeastern Univ.
<i>Multi-agent Consensus by Binary-valued Communications of Relative State</i>		Chi, Jianning	Northeastern Univ.
Wang, Ximei	KTH, 100 44 Stockholm	Wu, Cheng Dong	Northeastern Univ.
Zhao, Yanlong	Chinese Acad. of Sci.	Yu, Xiaosheng	Northeastern Univ.
Hu, Xiaoming	Royal Inst. of Tech.	► TuB19-4	17:30–17:50
Djehiche, Boualem	KTH	Wang, Huan	College of Information Sci. & Engineering, Northeastern Univ.
TuB18	16:10–17:50	Chi, Jianning	Northeastern Univ.
Invited Session: Cooperative Control and Optimization on Networked Systems		Wu, Cheng Dong	Northeastern Univ.
Organizer: Wang, Lin	Shanghai Jiao Tong Univ.	Yu, Xiaosheng	Northeastern Univ.
Organizer: Liu, Zhi-Xin	Chinese Acad. of Sci.	Hu, Qian	Northeastern Univ.
Chair: Wang, Lin	Shanghai Jiao Tong Univ.		
Co-Chair: Wang, Jinhuhan	Hebei Univ. of Tech.		
► TuB18-1	16:10–16:30		
<i>Event-Triggered Finite-Time Consensus for Multiple Nonholonomic Systems with Disturbances</i>			
Zhang, Yingwen	Hebei Univ. of Tech.		
Wang, Jinhuhan	Hebei Univ. of Tech.		
► TuB18-2	16:30–16:50		
<i>Distributed Adaptive Optimization via Edge-event-basedtriggering</i>			
Huo, Yanwei	Peking Univ.		
Zhao, Yu	Northwestern Polytechnical Univ.		
Duan, Zhisheng	Peking Univ.		
Chen, Guanrong	City Univ. of Hong Kong		
► TuB18-3	16:50–17:10		
<i>Newly-added Station Location-allocation in One-way Station-based Carsharing Systems</i>			
Chen, Lixin	Shanghai Jiao Tong Univ.		
Zhang, Wenxin	Shanghai Jiaotong Univ.		
Ma, Jian	Shanghai Jiaotong Univ.		
Wang, Lin	Shanghai Jiao Tong Univ.		
► TuB18-4	17:10–17:30		
<i>Observer-Based Positive Edge Consensus for Undirected Nodal Networks</i>			
Qian, Yuchen	Shanghai Univ. of Engineering Sci.		
Zhang, Wei	Shanghai Univ. of Engineering Sci.		
Ji, Mingming	Shanghai Univ. of Engineering Sci.		
Yan, Chenhang	Shanghai Univ. of Engineering Sci.		
► TuB18-5	17:30–17:50		
<i>Convergence Analysis of the Distributed Stochastic Gradient Algorithm</i>			
Gan, Die	Chinese Acad. of Sci.		
Liu, Zhi-Xin	Chinese Acad. of Sci.		
TuB19	16:30–17:50		
Invited Session: Deep Learning and Intelligent Robotic System			
Organizer: Wu, Cheng Dong	Northeastern Univ.		
Chair: Wu, Cheng Dong	Northeastern Univ.		
► TuB20	16:10–17:30		
Invited Session: Intelligent Data Analysis and Its Applications			
Organizer: Ge, Quanbo			
Organizer: Song, Enbin			
Chair: Ge, Quanbo			
Co-Chair: Song, Enbin			
► TuB20-1	16:10–16:30		
<i>Power Data Cleaning in Micro Grid</i>			
Li, Chunxi			
Jiang, Haoyu	Hangzhou Zhong Heng Electric Limited by Share Ltd		
Ge, Quanbo			
► TuB20-2	16:30–16:50		
<i>The Improved Tobit Kalman Filter over A Packet-Delaying Network</i>			
Wang, Lianqiang			
Lyu, Jilong			
Song, Enbin			
Wang, Tingting	China Aerospace Sci. & Tech. Corporation		
► TuB20-3	16:50–17:10		
<i>Two-stage Cubature Kalman Filtering Fusion Algorithms for Nonlinear Systems</i>			
Wang, Hong			
Niu, Zhuyun			
► TuB20-4	17:10–17:30		
<i>Accelerated Algorithms of Distributed Estimation Based OnRelative and Absolute Measurements</i>			
Cao, Xiangya			
Niu, Dunbiao			
Song, Enbin			
Wang, Tingting	China Aerospace Sci. & Tech. Corporation		
TuB21	16:30–18:10	Room 3410, Block 3	
Invited Session: Fractional applications			
Organizer: Wang, Xiaohong			
Chair: Wang, Xiaohong			
Co-Chair: Chen, Pengchong			
► TuB21-1	16:30–16:50		
<i>Research and Implementation of Fractional Order Controller in AC Servo Motor System</i>			
Wang, Xiaohong			
Zheng, Likai			
Hoang, Thi Thu Giang			
Pan, Zhipeng			

Zhou, Xiaozhuang	TP-Link Technologies Co		
► TuB21-2	16:50–17:10		
<i>Fractional-order Identification and Control of Permanent Magnet AC Servo System</i>			
Wang, Xiaohong	South China Univ. of Tech.		
Jiang, Shuren	South China Univ. of Tech. Guangzhou, China		
Pan, Zhifeng	South China Univ. of Tech.		
Hoang, Thi Thu Giang	South China Univ. of Tech.		
Tian, Lianfang	South China Univ. of Tech.		
► TuB21-3	17:10–17:30		
<i>A New Active Disturbance Rejection Controller Design Based on Fractional Extended State Observer</i>			
Chen, Pengchong	Huazhong Univ. of Sci. & Tech.		
Luo, Ying	Huazhong Univ. of Sci. & Tech.		
Zheng, Weijia	Foshan Univ.		
► TuB21-4	17:30–17:50		
<i>System Identification of Time-delay with Single Fractional Pole Heating Process Considering Rate Limit Effect</i>			
Yuan, Jie	Southeast Univ.		
Chen, Yangquan	Univ. of California		
Fei, Shumin	Southeast Univ.		
► TuB21-5	17:50–18:10		
<i>A Fractional Hilbert Transform Order Optimization Algorithm Based DE for Bearing Health Monitoring</i>			
Deng, Libao	Harbin Inst. of Tech. at Weihai		
Hou, Zhanbin	Harbin Inst. of Tech. at Weihai		
Liu, Haotian	Harbin Inst. of Tech., Weihai		
Sun, Zhongxin	Weihai Dynamic Test Tech. Co.,Ltd, Weihai 264209, China		
TuB22	15:50–17:50	Room 3411, Block 3	
<i>Invited Session: Control and optimization of nonlinear systems</i>			
Organizer: Fu, Jun	Northeastern Univ.		
Organizer: Niu, Ben	Northeastern Univ.		
Chair: Fu, Jun	Northeastern Univ.		
Co-Chair: Niu, Ben	Northeastern Univ.		
► TuB22-1	15:50–16:10		
<i>Practical Stability Analysis of Nonlinear Positive Systems</i>			
Li, Ruonan	Jinan Univ.		
Zhao, Ping	Univ. of Jinan		
Liu, Guomin	Univ. of Jinan		
► TuB22-2	16:10–16:30		
<i>Fixed-Time Stabilization for A Class of Nonholonomic Systems with State Constraints</i>			
Gao, Fangzheng	Nanjing Inst. of Tech.		
Huang, Jiaci	Nanjing Inst. of Tech.		
Wu, Yuqiang	Qufu Normal Univ.		
Liu, Zhenguo	Shanxi Univ.		
► TuB22-3	16:30–16:50		
<i>Adaptive Neural Tracking Control for Switched Nonlinear Disturbed Systems with Non-lower Triangular Structure</i>			
Li, Ruibing	Shandong Normal Univ.		
Niu, Ben	Northeastern Univ.		
Fu, Jun	Northeastern Univ.		
► TuB22-4	16:50–17:10		
<i>Event-triggered Containment Control for A Class of High-order Nonlinear Multi-agent Systems</i>			
Sun, Yani	Nanjing Univ. of Sci. & Tech.		
Wang, Ronghao	Army Engineering Univ. of PLA		
Zou, Wencheng	Nanjing Univ. of Sci. & Tech.		
Xiang, Zhengrong	Nanjing Univ. of Sci. & Tech.		
► TuB22-5	17:10–17:30		
<i>Event-triggered Control for Switched Linear Systems under Dual-terminal Cyber Attacks</i>			
Qi, Yiwen	Shenyang Aerospace Univ.		
Tang, Yiwen	Shenyang Aerospace Univ.		
Xu, Xindi	Shenyang Aerospace Univ.		
Liu, Yanhui	Shenyang Aerospace Univ.		
Yuan, Shuo	School of Automation, Shenyang Aerospace Univ.		
Cao, Zheng	Shenyang Aerospace Univ.		
TuB23	16:30–17:50	Room 3412, Block 3	
<i>Invited Session: Advances in Fault Diagnosis and Fault-tolerant Control in 2018-2019</i>			
Organizer: Wang, Youqing			
Organizer: Zhang, Ke	Nanjing Univ. of Aeronautics & Astronautics		
Chair: Wang, Youqing			
Co-Chair: Zhang, Ke	Nanjing Univ. of Aeronautics & Astronautics		
► TuB23-1	16:30–16:50		
<i>Distributed Fault Estimation with Adjustable Parameters for Interconnected Systems</i>			
Zhang, Ke	Nanjing Univ. of Aeronautics & Astronautics		
Jiang, Bin	Nanjing Univ. of Aeronautics & Astronautics		
► TuB23-2	16:50–17:10		
<i>基于鲁棒主元分析的高炉过程故障检测</i>			
<i>Robust Principal Component Analysis for Fault Detection in A Blast Furnace Process</i>			
Pan, Yijun	Zhejiang Univ.		
Yang, Chunjie	Zhejiang Univ.		
An, Ruqiao	Zhejiang Univ.		
Sun, Youxian	Zhejiang Univ.		
► TuB23-3	17:10–17:30		
<i>Minimum Rational Entropy Fault Tolerant Control for Non-Gaussian Singular Stochastic Distribution Control Systems Using T-S Fuzzy Modelling</i>			
Li, Lifan	Zhengzhou Univ.		
Yao, Lina	Zhengzhou Univ.		
► TuB23-4	17:30–17:50		
<i>H^∞ Fault Estimation for 2-D Linear Discrete Time-Varying Systems Based on Krein Space Method</i>			
Wang, Youqing			
TuB24	15:50–17:50	Room 3413, Block 3	
<i>Invited Session: Automated Connected Vehicles: Cyber-Physical Security & Control</i>			
Organizer: Guo, Ge	Dalian Maritime Univ.		
Organizer: He, Defeng	Zhejiang Univ. of Tech.		
Organizer: Guo, Hongyan	Jilin Univ.		
Chair: Guo, Ge	Dalian Maritime Univ.		
Co-Chair: He, Defeng	Zhejiang Univ. of Tech.		
Co-Chair: Guo, Hongyan	Jilin Univ.		
► TuB24-1	15:50–16:10		
<i>Secure Estimation for Intelligent Connected Vehicle Systems Against Sensor Attacks</i>			
Lou, Xiaoxin	Zhejiang Univ. of Tech.		
Song, Xiu-Lan	Zhejiang Univ. of Tech.		
He, Defeng	Zhejiang Univ. of Tech.		
► TuB24-2	16:10–16:30		
<i>Distributed Predictive Control for String Stability of Heterogeneous Vehicle Platoons with Multiple Communication Topologies</i>			
Lu, Liangye	Zhejiang Univ. of Tech.		
He, Defeng	Zhejiang Univ. of Tech.		
Dong, Shijian	Dalian Univ. of Tech.		
► TuB24-3	16:30–16:50		
<i>Interdependent Network Cascading Failure Analysis Based on Load Distribution and Node Backup Strategy</i>			
Li, Huan	Northeast Univ.		
Wang, Lifu	Northeastern Univ.		
► TuB24-4	16:50–17:10		
<i>MPC-Based Path Tracking Controller Design for Intelligent Driving Vehicle</i>			
Bo, Yue	Jilin Univ.		
Guo, Hongyan	Jilin Univ.		
Shen, Chen	Jilin Univ.		
Liu, Jun	Jilin Univ.		
► TuB24-5	17:10–17:30		
<i>Study on Obstacle Detection and Recognition Method Based on Stereo Vision and Convolutional Neural Network</i>			
Lian, Jing	Dalian Univ. of Tech.		
Kong, Lingchao	Dalian Univ. of Tech.		
Li, Linhui	Dalian Univ. of Tech.		
Zheng, Weinan	Dalian Univ. of Tech.		
Zhou, Yafu	Dalian Univ. of Tech.		
Fang, Siyu	Dalian Univ. of Tech.		

Qian, Bo	Dalian Univ. of Tech.		16:30–16:50
TuB25	16:30–17:50	Room 3415, Block 3	
Invited Session: Modeling and Active Vibration Control Design of Flexible Structure Systems and their Applications			
Organizer: Zhao, Zhijia	Guangzhou Univ.		
Organizer: He, Wei	Univ. of Sci. & Tech. Beijing	Nanjing Univ. of Sci. & Tech.	
Chair: Zhao, Zhijia	Guangzhou Univ.	Nanjing Univ. of Sci. & Tech.	
Co-Chair: He, Wei	Univ. of Sci. & Tech. Beijing	Nanjing Univ. of Sci. & Tech.	
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Chen, Wenjie	Tianjin Univ.	Southeast Univ.	
Han, Zhongjie	Tianjin Univ.	Southeast Univ.	
Zhao, Zhi-Xue	Tianjin Normal Univ.		
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<i>Output Feedback Stabilization of A Cascade ODE-Schrödinger System Subject to External Unknown Disturbance</i>			
Liu, Jun-Jun	TaiYuan Univ. of Tech.		
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<i>Vibration Suppression and Nonlinearities Solution of A Flexible Riser System</i>			
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Liu, Yiming	GuangZhou	Qingdao Univ.	
Liao, Xiaoqing	Guangzhou Univ.	Qingdao Univ.	
Ma, Yonghao	Guangzhou Univ.	Shandong Univ. of Sci. & Tech.	
He, Wei	Univ. of Sci. & Tech. Beijing	Qingdao Univ.	
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Liu, Yucheng	Changchun Univ. of Tech.		
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Li, Bing	Changchun Univ. of Tech.		
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Invited Session: New progress on analysis and design of switched and interconnected systems			
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Organizer: Jiang, Bin	Nanjing Univ. of Aeronautics & Astronautics		
Chair: Yang, Hao	Nanjing Univ. of Aeronautics & Astronautics		
Co-Chair: Jiang, Bin	Nanjing Univ. of Aeronautics & Astronautics		
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Jiang, Bin	Nanjing Univ. of Aeronautics & Astronautics		
Yang, Hao	Nanjing Univ. of Aeronautics & Astronautics		
Tao, Gang	Univ. of Virginia		
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Tian, Yazhou	Univ. of Jinan		
Sun, Yuangong	Univ. of Jinan		
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Organizer: Zeng, Zhigang			
Chair: Jiang, Feng			
Co-Chair: Zha, Miao			
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.....	PMoA	C
Park, Poogyeon.....	SuA07	CC
Peng, Yi.....	MoB03	C
Peng, Yijie.....	SuB21	C

Qi, Juntong.....	DF4	C
Qi, Tian.....	MoB23	C
Qin, Jiahu.....	MoB16	CC
Qin, Na.....	MoB06	C

R

Rehak, Branislav.....	MoA01	C
Ren, Xiaoping.....	TuB14	C

S

Shan, Jinjun.....	SuA02	C
Shan, Shangqiu.....	MoB13	C
Shao, Jingfeng.....	SuA15	C
Shao, Keyong.....	TuB01	C
Shen, Bo.....	TuA25	C
Shen, Hao.....	SuA27	CC
Shen, Tielong.....	SuA23	C
Shi, Dawei.....	SuA25	C
Shi, Shuo.....	TuB12	CC
Si, Chengyong.....	SuA05	CC
Song, Enbin.....	TuB20	CC
Song, Yan.....	Sub17	CC
Su, Weizhou.....	TuB04	C
Su, Youfeng.....	TuA26	CC
Sui, Tianju.....	SuA17	C
Sun, Jian.....	PMoA	C
.....	TuA17	C
Sun, Qiuye.....	Sub20	C
Sun, Shuli.....	Sub26	C
Sun, Xi-Ming.....	MoA19	C
.....	MoB19	CC
Sun, Yimin.....	MoA02	C
Suo, Jinghui.....	TuA25	CC

T

Tang, Hao.....	MoA20	CC
Tang, Yang.....	SuA18	C
.....	Sub16	CC
Tang, Yutao.....	SuA19	C
Teo, Tiong Teck.....	MoA02	CC
Tian, Engang.....	Sub17	C

W

Wang, Bingchang.....	MoA25	C
Wang, Bo.....	TuB08	C
Wang, Guangchen.....	MoB25	C
Wang, Jinhuan.....	TuB18	CC
Wang, Jinxiang.....	MoA12	C
Wang, Jinzhi.....	Tua06	C
Wang, Jun-Min.....	Tua01	C
Wang, Lin.....	MoA10	C
.....	TuB18	C
Wang, Ning.....	SuA05	C
Wang, Qingling.....	TuB11	CC
Wang, Sheng-Guo.....	SuA01	CC
Wang, Xiaohong.....	TuB21	C
Wang, Xinglong.....	SuA13	C
Wang, Xinqiang.....	MoA14	CC
Wang, Yijing.....	SuA12	C
Wang, Youqing.....	TuB23	C
Wang, Yunpeng.....	SuA24	CC
Wang, Zheng.....	SuA21	CC
Wen, Guanghui.....	MoA17	CC
Wen, Xiao-Qin.....	Tua06	CC
Wu, Ai-Guo.....	MoB01	C
.....	Tua27	C
Wu, Bingwei.....	Tua12	CC
Wu, Cheng Dong.....	TuB19	C
Wu, Huai-Ning.....	Sub18	C
Wu, Jing.....	MoB15	C
Wu, Junfeng.....	MoB16	C
.....	SuA16	CC
Wu, Kang.....	SuA22	CC

Wu, Min	PD2	C	Yue, Xiaoning	TuA14	C
Wu, Rebing	TuA21	C			
Wu, Xiande	TuA20	CC			
Wu, Yongxin	TuA01	CC			
Wu, Yuhu	MoB21	CC			
	SuA23	CC			
	SuB23	C			
X					
Xia, Li	SuA21	C	Zanma, Tadanao	SuA20	CC
Xia, Xiaonan	MoA09	CC	Zeng, Xianlin	TuA11	CC
Xiang, Ji	MoA22	C	Zha, Miao	TuB27	CC
Xiang, Linying	SuA04	C	Zhai, Qiaozhu	MoA22	CC
Xie, Lihua	PL4	C	Zhang, Aihua	SuA06	C
Xie, Xue-Jun	TuB02	C	Zhang, Baoyong	SuA27	C
Xie, Yongchun	PMoA	C	Zhang, Chenghui	PMoB	C
Xin, Bin	SuB11	C	Zhang, Chunjia	MoB12	CC
Xing, Shuangyun	MoB27	CC	Zhang, Enkang	SuA10	CC
Xiong, Yunqiang	SuA08	CC	Zhang, Guhan	MoB03	CC
Xu, Bin	TuB13	C	Zhang, Hai-Tao	TuA24	CC
Xu, Dabo	TuA02	CC	Zhang, Ji-Feng	PL3	C
Xu, Degang	MoA27	CC	Zhang, Jieyong	Sub04	CC
Xu, Dezhi	SuB19	CC	Zhang, Jinghui	TuA13	CC
Xu, Juanjuan	MoA25	CC	Zhang, Ke	TuB23	CC
Xu, Nuo	SuB18	CC	Zhang, Liguo	MoB10	CC
Xu, Yanbin	SuB07	CC	Zhang, Lu	MoB26	C
Xu, Zhanbo	SuB21	CC	Zhang, Senlin	MoB07	C
Xue, Anke	PMoA	C	Zhang, Sheng	SuA13	CC
Xue, Shibei	TuA21	CC	Zhang, Weicun	TuA23	CC
Y					
Yan, Han	SuB08	C	Zhang, Weidong	Sub24	C
Yan, Liping	SuB07	C	Zhang, Wen'an	Sub26	CC
Yan, Tianhao	TuB09	C	Zhang, Xuefeng	MoB01	CC
Yan, Yongyi	MoA21	CC	Zhang, Yili	TuA09	C
Yang, Hao	TuB26	C	Zhang, Ying	TuA27	CC
Yang, Hongjun	SuA24	CC	Zhang, Yong-Mei	MoB09	C
Yang, Huizhen	SuB24	CC	Zhang, Yunong	SuA01	C
Yang, Jun	SuB22	CC	Zhao, Dongya	MoA06	C
Yang, Tao	SuA16	C	Zhao, Guanglei	TuA05	CC
Yang, Wenbo	TuA08	C	Zhao, Qianchuan	SuA00	CC
Yang, Xiong	SuA09	CC	Zhao, Zhihia	TuB25	C
Yang, Zan	TuB07	CC	Zhao, Zhe	MoB06	CC
Yang, Ziyi	MoA15	CC	Zheng, Gang	TuA04	CC
Yang, Zuyuan	SuA07	C	Zheng, Jinchuan	Sub06	CC
Yin, Guodong	MoA07	C	Zhong, Jiaqi	TuB03	CC
	SuB14	CC	Zhong, Lin	TuB05	CC
Yin, Shen	MoB20	C	Zhong, Shouming	MoA18	C
You, Keyou	MoA11	C	Zhong, Yisheng	PMoB	C
	SuA17	CC	Zhou, Bin	MoB23	CC
Yu, Guangliang	MoB05	C	Zhou, Danfeng	Sub12	C
Yu, Huaizhi	SuA10	C	Zhou, Hua-Cheng	TuB01	CC
Yu, Li	PMoB	C	Zhou, Kemin	PMoB	C
Yu, Wensheng	PMoB	C	Zhou, Ning	Sub09	C
Yu, Wenwu	SuB25	CC	Zhou, Qingrui	TuA20	C
Yu, Yao	MoB24	CC	Zhou, Tong	MoB10	C
Yuan, Chengzhi	MoB09	CC	Zhou, Xiaojun	MoA05	C
Yuan, Haidong	TuA21	CC	Zhou, Xinghe	MoB08	CC
Yue, Ming	SuA12	CC	Zhou, Yusheng	MoA06	CC
Z					
Zanma, Tadanao	SuA20	CC	Zhou, Zhiheng	MoA24	C
Zeng, Xianlin	TuA11	CC	Zhu, Jinlin	MoB14	C
Zha, Miao	TuB27	CC	Zhu, Xiaoyuan	MoA13	CC
Zhai, Qiaozhu	MoA22	CC	Zhuang, Weichao	MoA12	CC
Zhang, Aihua	SuA06	C	Zhuo, Wenhao	TuB10	CC
Zhang, Baoyong	SuA27	C	Zou, Feng	TuB07	C
Zhang, Chenghui	PMoB	C	Zuo, Min	MoA09	C
Zhang, Chunjia	MoB12	CC	Zuo, Zhiqiang	SuA11	C