BIGCOM 2021 Conference Program BIGCOM 2021 大会日程

Day 1: Friday, Aug 13
Venue: Online, Tencent M

Venue: Online, Tencent Meeting ID: 574 978 2853

会场:腾讯在线会议 ID: 574 978 2853

Opening Remarks

(开幕式)

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Time	Speakers
9:00-9:10	Opening Remarks by Chairman 领导发言
9:10-9:20	Opening Remarks by TPC Chairs 会议技术委员会主席发言

Keynote 1

(主题演讲1)

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Time	Title /Author
9:20-10:20	Prof. Wenguang Chen (Tsinghua)
10:20-10:30	Break

Keynote 2

(主题演讲 2)

10:30-11:30	Prof. John Lui (CUHK)
11:30-12:30	Lunch

Session 1: Edge Computing and Data Center

(论坛 1: 边缘计算与计算中心)

Session Chair: Lei Shi(shilei@hfut.edu.cn)

Time	Title /Authors
12:30-12:45	Dynamic Multi-level Feedback Queuing based Packet Scheduling for Datacenter
	Networks
	Shishuai Wang, Weidong Zhang, Xuangou Wu, Wei Zhao, and Xiao Zheng
	(Anhui University of Technology)
12:45-13:00	Energy Efficient Resource Allocation and Trajectory Optimization in UAV-
	Assisted Mobile Edge Computing System
	Shuaibing Chen, Lei Shi, Ding Xu, Zengwei Lv, and Zhehao Li (HeFei
	University of Technology)
13:00-13:15	Mec2: Mobile Edge Computing enabled Caching Framework for Internet of
	Vehicles

	Guozhi Zhang (Northwest Normal University); Jiqiang Liu and Xiaolin Chang
	(Beijing Jiaotong University)
13:15-13:30	Listen-on-Edge: towards Learning Realtime Traffic Flow in Smart City
	Liangyan Hu, Yuanfei Yang, Guodong Sun, and Ruifeng Duan (Beijing Forestry
	University); Xingjian Ding (Renmin University of China)
13:30-13:45	DiterGraph: Toward I/O-Efficient Incremental Computation over Large Graphs
	with Billion Edges
	Yujie Du, Zhigang Wang, Ning Wang, Luqing Xie, and Zhiqiang Wei (Ocean
	University of China)
Session 2: \	Wireless Signals and Systems
(论坛 2: 无	线信号与系统)
	air: Xuangou Wu(wuxgou@ahut.edu.cn)
Time	Title /Authors
13:45-14:00	Matched Averaged Federated Learning Gesture Recognition with WiFi Signals
	Zexin Wang, Weidong Zhang, Xuangou Wu, and Xiujun Wang (School of
	Computer Science and Technology, Anhui University of Technology)
14:00-14:15	A Novel Routing Metric for Underwater Optical Wireless Communication Using
	ns-3
	Bowen Yan, Lei Wang, Yu Su, Yu Tian, and Bingxian Lu (Dalian University of
	Technology)
14:15-14:30	Wi-Piga: A personnel-independent method for actions recognition based on Wi-Fi
	Zhanjun Hao, Juan Niu, Xiaochao Dang, and Zhiqiang Qiao (Northwest Normal
14:30-14:45	University) W.E. Dhydrodd Dyd Model Indoor Positioning System Heige Adoptive Penge
14:30-14:43	WiFi-Bluetooth Dual Modal Indoor Positioning System Using Adaptive Range Filter
	Peng Zhao, Lei Wang, and Yu Tian (Dalian University of Technology); Linlin
	Guo (Shandong Normal University); Bingxian Lu (Dalian University of
	Technology)
14:45-15:00	Break
Keynote 3	Diew.
(主题演讲	3)
Time	Title /Author
15:00-16:00	Prof. Xiaoming Fu (Goettingen)
15.00 10.00	1101. Muoning Lu (Goettingen)
16:00-16:15	Break
Session 3: 0	Classification and Identification
	}类与识别)
`	air: Tao Wu(wutao20@nudt. edu. cn)
Time	Title/Authors
16:15-16:30	Nutrition Feature Basis of Food Classification in Traditional Chinese Medicine
10.12 10.20	Wan Yi, Xiaosong Han, Fucheng Zhao, Yikun Zhang, Jun Cheng, and Peiyu Niu
	(Key Laboratory for Symbol Computation and Knowledge Engineering of
	National Education Ministry, College of Computer Science and Technology, Jilin
	University)

16:30-16:45	A Distributed Traffic Classification Model based on Federated Learning
	Xufeng Zhu, Nina Shu, Huaixi Wang, and Tao Wu (National University of
	Defense Technology)
16:45-17:00	Constructing Knowledge Representation Vectors by Symbolic Fourier
	Approximation and Dynamic Time Warping to Improve Time Series
	Classification
	Yucheng Li and Derong Shen (Northeastern University in China)
17:00-17:15	Classification of Birds Based on Weighted Fusion
	Peng Wu, Xiaomei Yi, and Lufeng Mo (Zhejiang A&F University); Gang Wu
	(Beijing Forestry University)
17:15-17:30	SignID: Acoustic-based Identification with Single Sign Gesture Cheng Chuanhu,
	Xiong Yan, Huang Wenchao and Ma Lu
	Hui Xu, TianRan Wang, XiaoYu Wang, YuBo Yan, and PanLong Yang
	(University of Science and Technology of China)

Day 2: Saturday, Aug 14

Venue: Online

Tencent Meeting **ID:** 574 978 2853

Session 4: Computing(i)

(论坛 4: 计算 1)

Session Chair: Tong Liu(tong_liu@shu.edu.cn)

Session Chan: Tong End(tong_nd@snd.edd.en)	
Time	Title/Authors
9:30-9:45	Bandit-Enhanced Graph Collaborative Filtering via Graph Reconstruction
	Ruoyu Zhao (University of Science and Technology of China)
9:45-10:00	MGSTCN: A Multi-Graph Spatio-Temporal Convolutional Network for Metro
	Passenger Flow Prediction
	Jiahao Yang, Tong Liu, Chengfan Li, and Weiqin Tong (School of Computer
	Engineering and Science, Shanghai University); Yanmin Zhu (Department of
	Computer Science and Engineering, Shanghai Jiao Tong University); Wenwei
	Ai (Shanghai Shentong Metro Co., Ltd.)
10:00-10:15	Estimation of Load Factors of Trains Using Multi-source data for Complex
	Metro Systems
	Hexiang Wu, Tong Liu, ChengFan Li, and WeiQin Tong (School of Computer
	Engineering and Science, Shanghai University); Zhenni Feng (School of
	Computer Science and Technology, Donghua University); Shimin Zhao
	(Shanghai Shentong Metro Co., Ltd.)
10:15-10:30	Efficient Ad-level Impression Forecasting based on Monotonicity and Sampling
	Zhengtao Wu and Lan Zhang (University of Science and Technology of China);
	Hui Sheng (Tencent)
10:30-10:45	Break

Session 5: Computing(ii)	
(论坛 5: 计算 2)	
`	nir: Yubo Yan(yuboyan@ustc.edu.cn)
10:45-11:00	Keyword Extraction Based on Semantic Similarity Metric and Multi-Feature
	Computing
	Hui Kang, Xin Sun, and Tie Feng (Jilin University); Shuhang Lin (Beijing
	ByteDance Technology Co., Ltd)
11:00-11:15	Small Object Detection in Complex Large Scale Spatial Image by Concatenating
	SRGAN and Multi-Task WGAN
	Yu Fu, Chengyu Zheng, Liyuan Yuan, Hao Chen, and Jie Nie (Ocean University
11 15 11 20	of China) Xueying Zhang, Ruiting Zhou, John C.S. Lui and Zongpeng Li
11:15-11:30	Separability criteria combined with local filtering transformation based on the
	Bloch representation Wenli Wu and Zhaofeng Su (University of Science and Technology of China)
11:30-11:45	CMSS: Use Low-power IoT Cameras to Monitor Store Shelves
11.30-11.43	Xiaotian Fan, Yubo Yan, Panlong Yang, and Feiyu Han (LINKE Lab, School of
	Computer Science and Technology, USTC)
11:45-13:30	Lunch
	ecurity and Privacy
(论坛 6: 安	
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Time	nir: Xing Guo(guox@ahu.edu.cn) Title/Authors
Time	Title/Authors
13.30 13.45	P.P.M. Local Differential Privacy based Inventory Forecasting
13:30-13:45	RPM: Local Differential Privacy based Inventory Forecasting Lan Zhang and Cong Tang (University of Science and Technology of China)
	Lan Zhang and Cong Tang (University of Science and Technology of China)
13:30-13:45 13:45-14:00	Lan Zhang and Cong Tang (University of Science and Technology of China) Anti Leakage: Protecting privacy hidden in our speech
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Technology of China)

ID-Based Hybrid Network Architecture for the AIoT

15:00-15:15

	Hao Zhu and Xiang-Yang Li (School of Computer Science and Technology,
	University of Science and Technology of China, Hefei, China); Haohua Du
	(School of Cyber Science and Technology, Beihang University, Beijing, China);
	Xing Guo and Yanyong Zhang (School of Computer Science and Technology,
	University of Science and Technology of China, Hefei, China)
15:15-15:30	Break

Session 7: Data Processing

(论坛 7: 数据处理)

Session Chair: ZhengYu Li (1065990708@qq.com)

Time	Title/Authors
15:30-15:45	Hidden Markov based Truth Discovery for Multi-Agent Labeling Shan-Yang Jiang and Lan Zhang (University of Science and Technology of China)
15:45-16:00	Generative Dataset Distillation Chengeng Huang and Sihai Zhang (University of Science and Technology of China)
16:00-16:15	Optimal Data Collection for A Mobile Sink Xufei Mao and Chaochao Wu (Dongguan University of Technology); Xiang- Yang Li (School of Computer Science and Technology, USTC)
16:15-16:30	Analysis of Literary based on Deep Emotional Network Lejun Gong and Xiangyu Tang (Nanjing University of Posts and Telecommunication); Huakang Li (Xi'An Jiaotong-liverpool University)
16:30-16:45	Research on Informatization Forecasting Particulate Matter Using Spatio- Temporal Data Qide Wu, Hongli Xu, and Liusheng Huang (School of Computer Science and Technology, University of Science and Technology of China); Shixuan Guan (School of Electronic and Information Engineering, Suzhou University of Science and Technology); Chunchen Lu (School of Environmental Science and Engineering, Suzhou University of Science and Technology)
16:45-17:00	MGeohash: A Trajectory Data Index Method based on Historical Data Prepartitioning ZhengYu Li and ZhuoFeng Zhao (Beijing Key Laboratory on Integration and Analysis of Large-scale Stream Data, North China University of Technology)

Day 3: Sunday, Aug 15

Venue: Online

Tencent Meeting **ID:** 574 978 2853

Session 8: Networking (论坛 8: 计算机网络)

Session Chair: Jie Li(lijie@mail.neu.edu.cn)

Time	Title/Author
9:30-9:45	Efficient Semantic Segmentation Network with Multiple Paths Attention
	Donghui Liu, Wenhui Li, Yulong Hu, and Manglai Ji (Jilin University)
9:45-10:00	Path Planning Algorithm for Two-dimensional Raster Maps based on Deep
	Reinforcement Learning
	Jie Li, Yuhan Zhang, and Xianjie Liu (Computer Science and Engineering,
	Northeastern University); Ruiyun Yu (Software College, Northeastern
	University)
10:00-10:15	Transmit or Wait? Efficient Scheduling Algorithms for minimizing latency in
	Power-Adjustable Wireless Sensor Network
	Xi Chen, Siyao Cheng, Feng Li, and Jie Liu (Harbin Institute of Technology)
10:15-10:30	A Method for Short-term Traffic Flow Prediction and Control on Urban Road
	Chunjiang Wu, Shijie Zhou, Changli Fan, and Le Qi (University of Electronic
	Science and Technology of China)
10:30-10:45	The Charging Path Optimization Algorithm with the Moving Velocity Control
	of Wireless Charing Equipment in WRSNs
	Siwei Zhu, Lin Feng, Meng Li, Zengwei Lyu, and Zhenchun Wei (Hefei
	University of Technology)
10:45-11:00	Break
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Session 9: Computing(iii)((论坛 9: 计算 3)

Session Chair: Haohua Du(duhaohua@buaa.edu.cn)

Time	Title/Authors
11:00-11:15	Influence of Influence on Social Networks: Information Propagation Causes
	Dynamic Networks
	Qiang Li (USTC); Haohua Du (BUAA); Xiang-Yang Li (USTC)
11:15-11:30	3D Object Detection on Voxels in Spherical Coordinate System
	Xing Guo, Yu Zhang, Lei Gong, and Yanyong Zhang (University of Science and
	Technology of China)
11:30-11:45	Hybrid Attention Cascaded U-net For Building Extraction from Aerial Images
	Chaohui Li, Yingjian Liu, Haoyu Yin, Yue Li, Pengting Du, Limin Zhang, and
	Qingxiang Guo (Ocean University of China)
11:45-12:00	Collaborative Deep Sensing by Dynamically Fusing Multiple Models
	Mengjing Liu, Lan Zhang, Daren Zheng, and Xiangyang Li (University of
	Science and Technology of China)