学术研究创新

1 学术活动

2016 年第五届 IEEE 网络基础设施与数字内容国际会议
(IEEE IC-NIDC 2016) 圆满结束

2016 年 9 月 23-25 日，由 IEEE 北京分会、北京邮电大学 111 创新引智基地项目"高等智能与网络服务"、日本东北大学 GCOE 项目、韩国汉阳大学 BK21 项目、挪威科技大学及丹麦奥尔堡大学共同主办，由 IET 作为技术支持的 IEEE 网络基础设施与数字内容国际会议--IEEE IC-NIDC 2016 在北京召开，并取得了圆满成功。

大会主席由北京邮电大学副校长郭军教授、日本东北大学 Yoshiaki Nemoto 教授和电子科技大学李硕彦教授共同担任。程序委员会主席由北京邮电大学信息与通信工程学院执行院长张琳教授担任。

会议聚集了来自中国、韩国、日本、美国、加拿大、英国、法国等多个国家的 100 余名专家学者，分别就下一代无线通信、软件定义网络、宽带无线通信、大数据与云计算、物联网、车联网等多个领域，围绕自己取得的研究成果，做了学术报告。会议共收到来自国内外的论文 230 余篇，经过严格评审，最终收录论文 103 篇，由 IEEE 出版。会议录用的论文将全部被 EI 收录，部分优秀论文还将被推荐到 SCI 期刊。

此次会议的主题是"Analysis and Communications for ALL Things"，与会同行们围绕本主题的前沿技术和热点问题进行了深入交流和探讨。新西兰惠灵顿维多利亚大学的 W. Bastiaan Kleijn 教授、法国巴黎第六大学 Patrick Gallinari 教授以及韩国汉阳大学的 Jong-Il Park 教授分别为大会做了特邀主题报告，受到代表们的热烈欢迎。

当前，以光纤骨干传输网络、新一代无线通信网络、新一代互联网络为主要内容的网络基础设施的建设正在加速展开，新技术、新体制、新标准层出不穷。另一方面，随着网络基础设施的更新换代，一个可以综合提供文本、图像、视频、音频服务的宽带信息高速公路正在向世人开放。此次会议的召开对推动网络基础设施及数字内容技术的发展有重要意义。

大会主席
郭军 教授
北京邮电大学

大会主席
李硕彦 教授
电子科技大学

大会程序委员会主席
张琳 教授
北京邮电大学

信息与通信工程学院
2016-09-28

我校首次成功举办"互联网+能源"学术研讨会

2015 年 4 月 29 日，由我校"网络体系构建与融合北京市重点实验室"主办的首次"能源互联网下的信息通信体系研讨会"在北邮科技大厦成功举办。本次学术研讨会以"互联网+能源"为主题，会议主席为副校长温向明教授，执行主席为武穆清教授和冯春燕教授。会议邀请了国网信息通信产业集团王政涛总经理、孙德栋副总经理；北京国电通网络技术有限公司佟大力副总经理；国电力科学研究院朱朝阳副所长；国网智能电网研究院"千人计划"专家刘伟麟教授；中国电信北京研究院绿色城市首席专家、主任李文杰博士；清华大学曹军威教授；美国北卡罗来纳州立大学美国 FREEDM 计划核心专家王文野教授；天地互连信息技术有限公司程远副总经理；宁波智电创新信息科技有限公司王鸿龙副总经理等 10 余位国内外专家，以及我校学者教授和学生 80 多人参加了本次学术会议。

本次学术会议由执行主席武穆清教授主持，副校长温向明教授致开幕词。中国电力科学研究院信通所朱朝阳副所长、国网信息通信产业集团国电通的佟大力经理、电信北研院绿色城市首席专家李文杰主任、天地互连公司智慧能源的项冬南总监、北邮副校长、网络体系构建与融合北京市重点实验室主任温向明教授、清华大学曹军威教授、北卡罗莱纳州立大学王文野教授、宁波智电创新信息科技公司张培洪总监八位专家依次围绕能源互联网的体系结构、国内国际标准、数据承载方式、时延敏感网络、能源路由器、用电模式变革、需求侧管理、产业创新、示范工程规划等相关热点问题作了精彩主题报告。这些报告内容覆盖面广、信息量大，受到与会师生们的好评。

纪念 C. E. Shannon 诞辰 100 周年"信息理论"学术研讨会成功举办

　　2016 年 6 月 24 日，由泛网无线通信教育部重点实验室（北京邮电大学）、北京邮电大学信息与通信工程学院、北京未来网络科技高精尖创新中心共同主办的纪念 C. E. Shannon 诞辰 100 周年"信息理论"学术研讨会在北京邮电大学行政办公楼 501 会议室顺利举行。

　　会议开幕式由泛网无线通信教育部重点实验室主任冯志勇教授主持，国家自然科学基金委员会信息科学部张兆田副主任，信息一处熊小芸处长出席了开幕式。北京邮电大学副校长任晓敏教授和张兆田副主任分别为大会致辞。首先，任校长代表会议主办单位对各位嘉宾的到来表示欢迎，对 Shannon 等在信息领域做出杰出贡献的国内外科学家表示崇高的敬意。他在致辞中回顾了 Shannon 百年信息理论的发展及自 Shannon 提出信息论，中国信息科学的前辈学者、中国信息论研究的奠基人周炯磐院士，为中国的通信与信息事业展开的大量的开拓性工作及做出的杰出贡献。此外，任校长还提到蔡长年先生将信息理论应用于通信技术，为我国的通信理论和技术发展奠定了基础。100 年一个世纪，每一个 100 年世界的科技发展都会有很大的飞跃。过去的 100 年，德布罗意发现物质波，爱因斯坦提出相对论，信息领域最伟大的发现就是信息论。100 年过去了，对于 Shannon 最好的纪念就是发展他的理论。面对大众创业万众创新的新国策，任校长呼吁年轻一代的学者，为信息科学的发展共同努力，做出更大贡献。
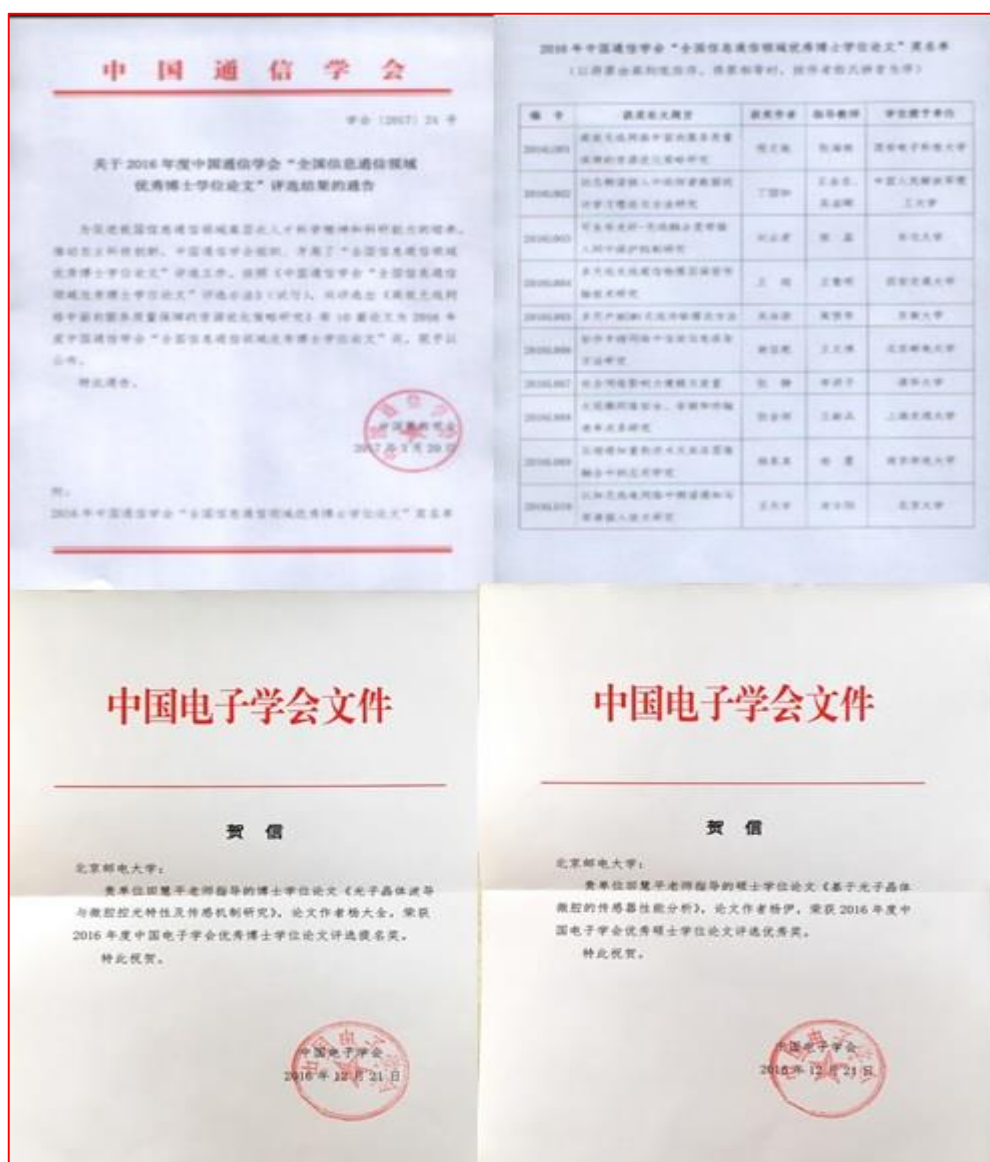
提高培养质量 促进学科发展

——信息与通信工程学院成功举行研究生学术年会暨优秀学位论文颁奖会

　　为了提高研究生的培养质量，调动研究生科研创新积极性，营造研究生创新学术氛围，培养富有创造力的杰出人才，促进学术成果的公开与交流，扩大研究生学术科研影响力，2013 年 7 月 6 日，信息与通信工程学院组织学院教师代表、博士研究生、硕士研究生 240 余人在科技大厦成功召开了"研究生学术年会"。年会由学院主办，各中心和教授团队负责研究生宣讲题目的征集、评审、筛选和申报，每个教授团队申报一名宣讲人。此次年会还特别邀请了中国工程院邬贺铨院士和中国电信集团公司杨杰总经理为我校师生做专题报告。

　　大会由信息与通信工程学院副院长冯春燕教授主持。在上午的环节中，郭军副校长首先致词，他对两位校外专家的到来表示感谢，并指出自我校信通学科获得学科评估第一名以来，学院更加注重研究生培养质量的提高，此次研究生学术年会，就是希望各年级各个实验室研究生之间进行充分交流、互通有无，进一步促进我们信息与通信工程重点学科的发展。

2 优秀学位论文

2009 年全国优秀博士学位论文提名

2012 年全国优秀博士学位论文提名

2016 中国通信学会电子学会优秀博士/硕士学位论文奖

3 2011-2017 年研究生一作 ESI 高被引论文

序号	检索号	论文题目	作者	研究领域	发表年份
1	WOS:000289669400005	VIRTUAL NETWORK EMBEDDING THROUGH TOPOLOGY-AWARE NODE RANKING	CHENG, X;SU, S;ZHANG, ZB;WANG, HC;YANG, FC;LUO, Y;WANG, J	COMPUTER SCIENCE	2011
2	WOS:000322451800014	ACHIEVING MAXIMUM ENERGY-EFFICIENCY IN MULTI-RELAY OFDMA CELLULAR NETWORKS: A FRACTIONAL PROGRAMMING APPROACH	CHEUNG, KTK;YANG, SS;HANZO, L	COMPUTER SCIENCE	2013
3	WOS:000348219800017	TOWARD 5G DENSENETS: ARCHITECTURAL ADVANCES FOR EFFECTIVE MACHINE-TYPE COMMUNICATIONS OVER FEMTOCELLS	CONDOLUCI, M;DOHLER, M;ARANITI, G;MOLINARO, A;ZHENG, K	COMPUTER SCIENCE	2015
4	WOS:000335157900001	SECURITY MANAGEMENT BASED ON TRUST DETERMINATION IN COGNITIVE RADIO NETWORKS	LI, JW;FENG, ZB;WEI, ZQ;FENG, ZY;ZHANG, P	ENGINEERING	2014
5	WOS:000369149900009	Co-channel interference in two-tier heterogeneous networks: analytical model and ergodic capacity	Li, Y (Li, Yuan); Peng, MG (Peng, Mugen) ; Manzoor, A (Manzoor, Ahmed) ; Wang, CG (Wang, Chonggang)	ENGINEERING	2016

6	WOS:000354860000002	IN-BAND FULL-DUPLEX RELAYING: A SURVEY, RESEARCH ISSUES AND CHALLENGES	LIU, G;YU, FR;JI, H;LEUNG, VCM;LI, X	COMPUTER SCIENCE	2015
7	WOS:000331160200013	A NEW USER SIMILARITY MODEL TO IMPROVE THE ACCURACY OF COLLABORATIVE FILTERING	LIU, HF;HU, Z;MIAN, A;TIAN, H;ZHU, XZ	COMPUTER SCIENCE	2014
8	WOS:000354767500075	ULTRATHIN LI3VO4 NANORIBBON/GRAPHENE SANDWICH-LIKE NANOSTRUCTURES WITH ULTRAHIGH LITHIUM ION STORAGE PROPERTIES	LIU, J;LU, PJ;LIANG, S;LIU, J;WANG, W;LEI, M;TANG, S;YANG, Q	MATERIALS SCIENCE	2015
9	WOS:000367336800013	ON THE OUTAGE PROBABILITY OF DEVICE-TO-DEVICE-COMMUNICATION-ENABLED MULTICHANNEL CELLULAR NETWORKS: AN RSS-THRESHOLD-BASED PERSPECTIVE	LIU, JJ;NISHIYAMA, H;KATO, N;GUO, J	COMPUTER SCIENCE	2016
10	WOS:000343702400007	PAIRWISE ROTATION INVARIANT CO-OCCURRENCE LOCAL BINARY PATTERN	QI, XB;XIAO, R;LI, CG;QIAO, Y;GUO, J;TANG, XO	ENGINEERING	2014
11	WOS:000376225200001	CLOUD RADIO ACCESS NETWORK: VIRTUALIZING WIRELESS ACCESS FOR DENSE HETEROGENEOUS SYSTEMS	SIMEONE, O;MAEDER, A;PENG, MG;SAHIN, O;YU, W	COMPUTER SCIENCE	2016
12	WOS:000347706700001	TRAINING DESIGN AND CHANNEL ESTIMATION IN UPLINK CLOUD RADIO ACCESS NETWORKS	XIE XQ; PENG MG; WANG WB; POOR HV	ENGINEERING	2015

13	WOS:000359262600017	CSO: CROSS STRATUM OPTIMIZATION FOR OPTICAL AS A SERVICE	YANG H; ZHANG J; ZHAO YL; JI YF; HAN JR; LIN Y; LEE Y	ENGINEERING	2015
14	WOS:000346864200006	ENERGY-EFFICIENT TRAFFIC GROOMING IN SLICEABLE-TRANSPONDER-EQUIPPED IP-OVER-ELASTIC OPTICAL NETWORKS	ZHANG JW; ZHAO YL; YU XS; ZHANG J; SONG M; JI YF; MUKHERJEE B	ENGINEERING	2015
15	WOS:000341571000018	RESOURCE ALLOCATION IN SPECTRUM-SHARING OFDMA FEMTOCELLS WITH HETEROGENEOUS SERVICES	ZHANG, HJ;JIANG, CX;BEAULIEU, NC;CHU, XL;WEN, XM;TAO, MX	COMPUTER SCIENCE	2014
16	WOS:000305585300015	ENERGY-EFFICIENT RELAY SELECTION AND POWER ALLOCATION FOR TWO-WAY RELAY CHANNEL WITH ANALOG NETWORK CODING	ZHOU M; CUI QM; JANTTI R; TAO XF	ENGINEERING	2012
17	WOS:000345859000003	JOINT POWER SPLITTING AND ANTENNA SELECTION IN ENERGY HARVESTING RELAY CHANNELS	ZHOU, Z;PENG, MG;ZHAO, ZY;LI, Y	ENGINEERING	2015

4 2012-2017 年研究生一作影响因子 2.0 以上 SCI 论文

序号	题目	作者	出版
1	Economical Energy Efficiency: An Advanced Performance Metric for 5G Systems	晏志鹏	20
2	Grouping and Cooperating among Access Points in User-centric Ultra-dense Networks with Non-orthogonal Multiple Access	刘宜明	20
3	Effective Capacity of Licensed-Assisted Access in Unlicensed Spectrum: From Theory to Applications	谷宇	20
4	3-D MIMO: How Much Does It Meet Our Expectations Observed From Channel Measurements?	张宇翔	20
5	Caching in the Sky: Proactive Deployment of Cache-Enabled Unmanned Aerial Vehicles for Optimized Quality-of-Experience	陈明哲	20
6	A Data Mining Approach Combining K -Means Clustering With Bagging Neural Network for Short-Term Wind Power Forecasting	武文斌	20
7	The Role of Data Analysis in the Development of Intelligent Energy Networks	谢吉洋	20
8	Socially Motivated Data Caching in Ultra-Dense Small Cell Networks	智文婷	20
9	An Integrated Framework for Software Defined Networking, Caching and Computing	陈清霞	20
10	A Supply-Demand Approach for Traffic-Oriented Wireless Resource Virtualization With Testbed Analysis	冀磊	20
11	Energy efficiency maximization of full-duplex two-way relay with non-ideal power amplifiers and non-negligible circuit power	张煜昊	20
12	Echo State Networks for Proactive Caching in Cloud-Based Radio Access Networks With Mobile Users	陈明哲	20
13	Echo State Networks for Self-Organizing Resource Allocation in LTE-U With Uplink‐Downlink Decoupling	陈明哲	20

14	Synergistic Instance-Level Subspace Alignment for Fine-Grained Sketch-Based Image Retrieval	李珂	20
15	Half-spaced substrate integrated spoof surface plasmon polaritons based transmission line	朱剑锋	20
16	Capacity limit for faster-than-Nyquist non-orthogonal frequency-division multiplexing signaling	周骥	20
17	Improved Message Passing Algorithm for Sparse Code Multiple Access	戴金晟	20
18	Throughput Analysis of an Energy Harvesting Multichannel System Under Delay and Energy Storage Constraints	李职杜	20
19	Adaptive Centralized Clustering Framework for Software-Defined Ultra-Dense Wireless Networks	吕昕晨	20
20	Secure Degrees of Freedom of the Asymmetric Gaussian MIMO Interference Channel	王怡	20
21	Capacity Analysis of Joint Transmission CoMP with Adaptive Modulation	宋恒国	20
22	Secrecy-Optimized Resource Allocation for Device-to-Device Communication Underlaying Heterogeneous Networks	张科成	20
23	Secure Transmission in MISOME Wiretap Channel with Multiple Assisting Jammers: Maximum Secrecy Rate and Optimal Power Allocation	吴慧慈	20
24	Information Caching Strategy for Cyber Social Computing Based Wireless Networks	李永竞	20
25	A multi-level artificial neural network nonlinear equalizer for millimeter wave fiber-wireless transmission systems	刘思明	20
26	Joint OSNR and Interchannel Nonlinearity Estimation Method Based on Fractional Fourier Transform	王万里	20
27	Flow Distribution Aware Load Balancing for Datacenter	汪硕	20
28	Solution for error propagation in a NOMA-based VLC network: symmetric superposition coding	李皓月	20

29	Interleaved single-carrier frequency-division multiplexing for optical interconnects	周骥	20
30	Delay and Delay-Constrained Throughput Performance of a Wireless-Powered Communication System	李职杜	20
31	Power Amplifier Energy Efficiency Enhancement via Adaptive Polarization-QAM Modulation Scheme in OFDM Systems	赵殊伦	20 第
32	Exploiting Polarization for System Capacity Maximization in Ultra-Dense Small Cell Networks	陈硕	201
33	A Game-theoretic and Energy-efficient Algorithm in an Improved Software-defined Wireless Sensor Network	李沛哲	201
34	A Universal Predictive Mobility Management Scheme for Urban Ultra-Dense Networks With Control/Data Plane Separation	孙阳	201
35	Self-Sorting Based MAC Protocol for High-Density Vehicular Ad Hoc Networks	沈众宜	20
36	Compressing Fisher Vector for Robust Face Recognition	王洪俊	20
37	Distortion Minimization Hashing	袁彤彤	20
38	ConFi: Convolutional Neural Networks Based Indoor Wi-Fi Localization Using Channel State Information	陈昊	20
39	Dual-Mode Index Modulation Aided OFDM with Constellation Power Allocation and Low-Complexity Detector Design	张雪坤	20
40	DoA-LF: A Location Fingerprint Positioning Algorithm With Millimeter-Wave	赵亚东	20
41	A Stochastic Optimization Framework for Adaptive Spectrum Access and Power Allocation in Licensed-Assisted Access Networks	谷 宇	20
42	Mobile Edge Computing enhanced Adaptive Bitrate Video Delivery with Joint Cache and Radio Resource Allocation	刘家祥	20
43	Mobility-Aware Coded Probabilistic Caching Scheme for MEC-Enabled Small Cell Networks	刘心唯	20
44	Coverage Performance of Joint Transmission for Moving Relay Enabled Cellular Networks	唐晓璇	20
45	Combinational Auction Based Service Provider Selection in Mobile Edge Computing Networks	郭凤仙	20

46	A Semi-matching Based Load Balancing Scheme for Dense IEEE 802.11 WLANs	雷涛	20
47	Hybrid Precoding for mmWave Massive MIMO Systems with Partially Connected Structure	李南希	20
48	Greedy-Ant: Ant Colony System-Inspired Workflow Scheduling for Heterogeneous Computing	向彬	20
49	Energy Efficiency Analysis of Heterogeneous Cellular Networks with Extra Cell Range Expansion	张煜昊	20
50	Energy-Saving Offloading by Jointly Allocating Radio and Computational Resources for Mobile Edge Computing	赵鹏涛	20
51	Sparsity-Inspired Sphere Decoding (SI-SD): A Novel Blind Detection Algorithm for Uplink Grant-Free Sparse Code Multiple Access	陈广进	20
52	A Social-Energy Based Cluster Management Scheme for User-Centric Ultra-Dense Networks	黄昭龙	20
53	The Collaboration for Content Delivery and Network Infrastructures: A Survey	贾庆民	20
54	Resource Allocation in Cloud Radio Access Networks With Device-to-Device Communications	莫毅韬	20
55	Does Gaussian Approximation Work Well for The Long-Length Polar Code Construction	戴金晟	20
56	An Online Strategy of Adaptive Traffic Offloading and Bandwidth Allocation for Green M2M Communications	王琳	20
57	On Favorable Propagation in Massive MIMO Systems and Different AntennaConfigurations	武霄泳	20
58	Adaptive Compression Trie based Bloom Filter:Request Filter for NDN Content Store	张然	20
59	A Survey on Mobile Edge Networks: Convergence of Computing, Caching and Communications	王硕	20
60	ICICD: An Efficient Content Distribution Architecture in Mobile Cellular Network	谢俊峰	20
61	A Dimension Distance-Based SCMA Codebook Design	闫诚	20
62	DNN Filter Bank Cepstral Coefficients for Spoofing Detection	于泓	20

63	Jointly Optimal Congestion Control, Forwarding Strategy and Power Control for Named-Data Multihop Wireless Network	李诚成	20
64	Text-Independent Speaker Identification Using the Histogram Transform Model	于泓	20
65	Virtual Network Embedding Based on the Degree and Clustering Coefficient Information	张培颖	20
66	Information filtering based on corrected redundancy-eliminating mass diffusion	杨育捷	20
67	Towards a Semantic Web of Things: A Hybrid Semantic Annotation, Extraction, and Reasoning Framework for Cyber-Physical System	徐源	20
68	High-Gain Series-Fed Planar Aperture Antenna Array	朱剑锋	20
69	Deep Correlation Feature Learning for Face Verification in the Wild	陈炳辉	20
70	Universal Cooperative Localizer for WSN With Varied Types of Ranging Measurements.	罗峰	20
71	Global Flow Table: A convincing mechanism for security operations in SDN	张凯	20
72	Design on-chip width-modulated line-defect cavity array structure for multiplexing complex refractive index sensing	孙富君	20
73	Multiple Decision Aided Successive Interference Cancellation Receiver for NOMA Systems	凌彬坚	20
74	An adaptive ANN equalizer applied in millimeter-wave RoF transmission system	刘思明	20
75	256-QAM Interleaved Single Carrier FDM for Short-Reach Optical Interconnects	周骥	20
76	Simplified Maximum Likelihood Detection for FTN Non-orthogonal FDM System	郭梦琪	20
77	Parabolic tapered coupled two photonic crystal nanobeam slot cavities for high-FOM biosensing	周健	20

78	Hybrid Optical Wireless Network for Future SAGO-Integrated Communication Based on FSO/VLC Heterogeneous Interconnection	王振方	20
79	Performance Enhancement Scheme for Mobile-Phone Based VLC Using Moving Exponent Average Algorithm	张振山	20
80	A novel noise-insensitive chromatic dispersion estimation method based on fractional Fourier transform of LFM signals	王万里	20
81	Personalized recommendation based on preferential bidirectional mass diffusion	陈桂林	20
82	transport control strategies in named data networking:A survey	陈清霞	20
83	Internet of Things Cloud: Architecture and Implementation	侯 璐	20
84	Software Defined Networking, Caching, and Computing for Green Wireless Networks	霍 如	20
85	Molecular Communications: Channel Model and Physical Layer Techniques	郭维思	20
86	Social-aware energy harvesting device to device communications in 5G cellular networks	蒋 丽	20
87	FOFDM Based on Discrete Cosine Transform for Intensity-Modulated and Direct-Detected Systems	周 骥	20
88	User-Centric Ultra-Dense Networks for 5G: Challenges, Methodologies and Directions	陈山枝	20
89	Green Full-duplex Self-backhaul and Energy Harvesting Small Cell Networks with Massive MIMO	陈 磊	20
90	Wireless-Powered Cooperative Communications: Power-Splitting Relaying With Energy Accumulation	周 政	20
91	Joint Multiple Symbol Differential Detection and Channel Decoding for Noncoherent UWB Impulse Radio by Belief Propagation	王滔滔	20

92	Echo State Networks for Self-Organizing Resource Allocation in LTE-U with Uplink-Downlink Decoupling	陈明哲	20
93	Multiuser MIMO Transmission Aided by Massive One-Bit Magnitude Measurements	王生楚	20
94	Signal Processing in Massive MIMO with IQ Imbalances and Low-Resolution ADCs	王生楚	20
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