
Xiamen, China
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¹Southwest University of Science and Technology, China
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³Shandong University of Political Science and Law, China

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\textsuperscript{1}South China Agriculture University, China
\textsuperscript{2}Guangdong Research Institute of Water Resources and Hydropower, China
\textsuperscript{3}Guangzhou Water Science Research Institute, China

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Xinyi Zhang
Nanjing University of Science and Technology, China

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Lianghao Yuan, Wei Tang and Jinghua Liu
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\textsuperscript{1}Industrial Technology Research Institute (ITRI), Taiwan
\textsuperscript{2}National Cheng Kung University, Taiwan

A Reduced Complexity DOA Estimation Method for Real-Valued Sources in Non-Uniform Sparse Linear Arrays

Fenggang Sun\textsuperscript{1}, Peng Lan\textsuperscript{1}, Lei Xu\textsuperscript{2}, Bo Sun\textsuperscript{1} and Guowei Zhang\textsuperscript{3}

\textsuperscript{1}Shandong Agricultural University, China
\textsuperscript{2}China Tower Corporation, Shandong Tai’an Branch, China

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Fenggang Sun\textsuperscript{1}, Peng Lan\textsuperscript{1}, Lei Xu\textsuperscript{2}, Bo Sun\textsuperscript{1} and Guowei Zhang\textsuperscript{3}

\textsuperscript{1}Shandong Agricultural University, China
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²Air Force Engineering University, China

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¹Research Institute of Shenzhen, Wuhan University, China
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²State Key Laboratory of Digital Publishing Technology, China
³Tencent AI Lab, China
⁴Nanyang Technological University, Singapore

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¹Key Lab of Intelligent Computing and Signal Processing, Ministry of Education, China
²Anhui University, China

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Computer Science and Systems Engineering Kyushu Institute of Technology Fukuoka, Japan

NQ-L2.6 Automatic Removing Method of The Frequency Shift for DOSY Analysis Based on The Nonlinear Fitting
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NQ-L3 (SS) Nanoscale and Molecular Communications

NQ-L3.1 Achievable Rate for A Mobile Molecular Communication System Invited Paper
Qian Wu¹,², Lin Lin², Zhan Luo¹, Maode Ma³, Fuqiang Liu² and Hao Yan⁴
¹Shanghai University, China
²Tongji University, China
NQ-L3.2 Molecule Gradient Formation by Mobile Bio-Nanomachines
Yutaka Okaie, Tadashi Nakano, Takuya Obuchi, Shinya Ishiyama and Takahiro Hara
Osaka University, Japan

NQ-L3.3 A Space-Time Multi-Input-Multi-Output System Framework for Touchable Communication
Yu Zhou¹,², Yifan Chen³, Ross D. Murch¹, Rui Wang², Qingfeng Zhang²
¹Hong Kong University of Science and Technology, Hong Kong
²Southern University of Science and Technology, China
³The University of Waikato, New Zealand

NQ-L3.4 A Diffusion-Neuron Hybrid Channel for Molecular Communication
Peng He, Yuming Mao, Qiang Liu and Haoyang Zhai
University of Electronic Science and Technology of China, China

NQ-L4 (SS) Emerging Wireless Communication Technologies
NQ-L4.1 Efficient Protocol Design for Device-to-Device Communication in Ultra Dense Networks
Baofeng Ji¹,²,³, Yidan Wang¹, Bingbing Xing¹, Yi Wang⁴,⁵, Kang Song⁶, Chunguo Li¹,³ and Rui Zhao⁷
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⁴Zhengzhou University of Aeronautics, China
⁵China National Digital Switching System Engineering & Technological R&D Center, China
⁶Qingdao University, China
⁷Huaqiao University, China

NQ-L4.2 Energy-Efficient Resource Allocation for Multi-Pair Massive MIMO Relaying Networks with Zero-Forcing Relay Precoding
Yi Wang¹,², Shaochuan Yang¹, Songwei Zhang¹, Yuhan Wang³, Ying Hu⁴,⁵, Chunguo Li⁵ and Rui Zhao⁶
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⁴Jiangsu University of Science and Technology, China
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NQ-L4.3 Closed-Form Energy Efficient Joint Power Allocation for Dual-Hop Massive MIMO Relaying Systems
Yi Wang¹,², Yuhan Wang³, Songwei Zhang¹, Pengge Ma¹, Shaochuan Yang¹, Baofeng Ji⁴, Kang Song⁵ and Chunguo Li⁶
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NQ-L4.4 Energy Efficiency Resource Allocation in Downlink Cell-Free Massive MIMO System
Ying Hu\(^1,2\), Fei Zhang\(^1,2\), Chunguo Li\(^2\), Yi Wang\(^3,4\) and Rui Zhao\(^5\)
\(^1\)Jiangsu University of Science and Technology, China
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\(^4\)China National Digital Switching System Engineering & Technological R&D Center, China
\(^5\)Huaqiao University, China

NQ-L4.5 An Improved CFAR Algorithm for Target Detection
Chunmei Xu, Yang Li, Chao Ji, Yongming Huang, Haiming Wang and Yili Xia
Southeast University, China

NQ-L5 Circuits and Systems II

NQ-L5.1 EMI Reduction Technique with Noise Spread Spectrum Using Swept Frequency Modulation for Hysteretic DC-DC Converters
Natsuko Miki, Nobukazu Tsukiji, Koyo Asaishi, Yasunori Kobori, Nobukazu Takai and Haruo Kobayashi
Gunma University, Japan

NQ-L5.2 Estimation of Circuit Component Values in Buck Converter Using Efficiency Curve
Shotaro Sakurai, Nobukazu Tsukiji, Yasunori Kobori and Haruo Kobayashi
Gunma University, Japan

NQ-L5.3 Application of Inductive Filtering Technology in Industrial Rectifier Power System
Peng-fei Shao\(^1\), Hao Chen\(^1\) and Yong Li\(^2\)
\(^1\)Huaqiao University, China
\(^2\)Hunan University, China

NQ-L5.4 Research on Control Strategy of Small Wind Power Generation Controller
Na Deng\(^1,2\) and Li Li\(^1\)
\(^1\)Institute of Electronic and Electrical Engineering, China
\(^2\)Anhui University, China

NQ-L5.5 Full Custom Design of Adaptable Montgomery Modular Multiplier for Asymmetric RSA Cryptosystem
Trio Adiono, Hans Ega, Hans Kasan, Syifaul Fuada and Suksmandhira Harimurti
Institut Teknologi Bandung, Indonesia