## Wireless and Satellite Systems(WiSATS)2019

### W-1:Satellite Communication I

**Date: Jan.12,2019**

**Time: 14:00pm - 15:30pm**

**Room: Solon Hall**

**Chair: Youping Zhao**

1. **Parameter Estimation of Multiple Satellite Signals Based on Cyclic Spectrum**

Yu Du; Jingjing Zheng; Xiaoshuang Jiao

1. **Wavelength Routing Assignment of Different Topological Optical Networks Based on Typical LEO Satellite Constellation**

Sun Xue, Suzhi Cao

1. **Blind Source Separation for Satellite Communication Anti-jamming**

Hua Yang, Hang Zhang, Jiang Zhang, Liu Yang, Pengfei Wang

1. **Markov Decision based Optimization on Bundle Size for Halo Orbit-relay Earth-Lunar DTNs**

Yunlai Xu, Ye Wang, Zhihua Yang, Shushi Gu, Yue Li, Peng Yuan

1. **The Functional Design of A Multi-protocol Satellite Router**

Yushan Wu, Qing Guo, Mingchuan Yang,

1. **Capacity Analysis of Panoramic Multi-beam Satellite Telemetry and Command System**

Yilun Liu; Lidong Zhu

### W-2: Spaceborne Network & Spacecraft I

**Date: Jan.12,2019**

**Time: 14:00pm - 15:30pm**

**Room: Yakurt5 Hall**

**Chair: Xiongwen He**

1. **Design of spaceborne AIS system**

Xiangyu Lin, Dong Yan, Yufei Huang, Fan Bai, Xiongwen He, Panpan Zhan

1. **Design and Realization of Onboard Router Based on IPv6 and SPP with Software**

Zheng Qi, Xiongwen He, Panpan Zhan, Cuitao Zhang, Ming Gu, Dong Yan

1. **Integration Design of IPv6 and Time-Triggered Ethernet on Spacecraft**

Ming Gu, Panpan Zhan, Xiongwen He, Dong Yan

1. **Research on Wireless Networks for Intra-Spacecraft**

Cuitao Zhang, Xiongwen He, Dong Zhou, Panpan Zhan, Zheng Qi, Yong Xu

1. **Optimum Layout and Simulation of TT & C Antennas on Lunar Exploration Capsule**

Xiaoguang Li, Baobi Xu

1. **A method of automatic code generation for spacecraft OBDH software**

Hongjun Zhang, Li Pan, Mengmeng Yu;

### W-3: DOA & TOA Estimation

**Date: Jan, 12, 2019**

**Time: 14:00pm - 15:30pm**

**Room: Yakurt6 Hall**

**Chair: Xujie Li**

1. **DOA Estimation Based on Bayesian Compressive Sensing**

Suhang Li, Yongkui Ma, Yulong Gao, Jingxin Li

1. **Vehicle Localization Using Joint DOA / TOA Estimation Based on TLS-ESPRIT Algorithm**

Shanjie Zhang ,Yi Shi , Rui Zhang , Feng Yan, Yi Wu ,Weiwei Xia, Lianfeng Shen

1. **TOA Estimation of Unknown Chirp Signal Based on Short Time FRFT and Hough Transform**

Mengzhu Liu ,YiCheng Jiang,Yun Zhang , Min，Jia

1. **DOA Estimation for Coherent and Incoherent Sources Based on Co-Prime Array**

Yong Jia , Zehua Li, Chao Yan ,Yong Guo , Xiaoling Zhong, Shiying Yin

1. **DOA Estimation for Coherent and Incoherent Targets with Co-Prime MIMO Array**

Yong Jia , Chao Yan ,Chuan Chen , Duo Bin,Xiaoling Zhong, Yong Guo , Shiying Yin

1. **Depth Recovery from Focus-defocus Cue by Entropy of DCT Coefficient**

Huadong Sun, Zhijie Zhao, Xiaowei Han, Lizhi Zhang

### W-4: IoT & D2D

**Date: Jan, 12, 2019**

**Time: 14:00pm - 15:30pm**

**Room: Executive Lounge Conference Room**

**Chair: Mingxiang Guan**

1. **Narrowband-IoT as an Effective Developmental Strategy for Internet of Things in Sub-Saharan Africa: Nigerian Case Study**

Oluwaseun Ologun, Shaochuan Wu, Yulong Gao, Xiaokang Zhou

1. **A resource allocation scheme based on predatory search algorithm for ultra-dense D2D communications**

Xujie Li,Ying Sun,Lingjie Zhou, Siyuan Zhou, Yanli Xu

1. **Repairable Fountain Codes with Unequal Locality for Heterogeneous D2D Data Storage Networks**

Yue Li, Shushi Gu, Ye Wang, Qinyu Zhang, Wei Xiang

1. **Optimal Resource Optimization for Cluster-based Energy-efficient Cognitive IoT**

Xin Liu, Min Jia, Zhenyu，Na

1. **Social Trusted D2D Seed Node Cluster Generation Strategy**

Weifeng Lu, Xiaoqiang Ren, Jia Xu, Siguang Chen,Lijun Yang, Jian Xu

1. **Research on Diabetes Aided Diagnosis Model Based on Deep Belief Network**

Zhijie Zhao, Yang Liu, Huadong Sun, Xiaowei Han, Ran Wang

### W-5：Data Processing & Codes

**Date: Jan.12,2019**

**Time: 14:00pm - 15:30pm**

**Room: Togus 7 Hall**

**Chair: Zhengquan Li**

1. **A Puncturing Algorithm for Mixing 2-Kernel and 3-Kernel Polar Codes**

Xiaojun Zhang, Chen Chen, Jianming Cui, Geng Chen, Hengzhong Li

1. **Low Complexity Decoding Scheme for LDPC Codes Based on Belief Propagation Algorithm**

Wenshuo Zhang, Liming Zheng, Yue Wu, Gang Wang, Aijun Liu

1. **Data Management Software System Design for Spacelab**

Panpan Zhan, Lan Lu, Xiongwen He, Luyuan Wang, Yong Sun

1. **Toward High Energy efficiency contact plan design in collaborative data offloading in space information network**

Xianfeng Liu, Lei Yang, Chengguang Fan, Shuai Wu, Jianming Guo, Quan Chen

1. **Power Allocation Scheme for Decode-And-Forward Cooperative Communications in Rician Fading Channels**

Wenqiu Wei, Mingchuan Yang ,Weizhong Zhang

1. **On Minimizing Decoding Complexity for Binary Linear Network Codes**

Jian Wang, Kui Xu, Xiaoqin Yang, Lihua Chen, Wei Xie, Jianhui Xu

### W-6: Radar Technology

**Date: Jan.12,2019**

**Time: 14:00pm - 15:30pm**

**Room: Togus 8 Hall**

**Chair: Yong Wang**

1. **Radar detection based on pilot signals of LTE base stations**

Yun Zhang, Jinze Li, Yang Li, Nan Qiao

1. **The gesture detection algorithm based on 3-DCGAN range estimation in FMCW Radar System**

Xiuqian Jia, Yong Wang, Mu Zhou, Zengshan Tian

1. **Two-Dimensional Parameters Based Hand Gesture Recognition Algorithm for FMCW Radar Systems**

Yong Wang; Zedong Zhao; Mu Zhou; Jinjun Wu

1. **Automatic Identification OF Underground Pipeline Based ON Ground Penetrating Radar**

Xu Bai, Weile An, Bin Wang, Jianyu Jiang, Yanjia Zhang

1. **Research on the integrated working mode based on positive and negative frequency modulation in radar communication integration**

Quanrui Zhao, Aijun Liu

1. **R/I-Capon For Low-Complexity Direction of Arrival Estimation With Real-Valued Computation**

Xiang Li, Fenggang Yan, Shuai Liu, Jin Ming,

### W-7: MIMO & Phased Array

**Date: Jan.12,2019**

**Time: 16:00pm - 17:30pm**

**Room: Solon Hall**

**Chair: Weidang Lu**

1. **An Improved Target Location Algorithm of MIMO Radar Based on Fuzzy C Clustering**

Jurong Hu; Lei Zhan; Baidoo, Evans; Xujie Li Ying Tian

1. **Subspace-Based Adaptive Semi-Blind Channel Estimation for MASSIVE MIMO Systems**

Cheng Zhou, Zhengquan Li, Song Xing , Qiong Wu, Yang Liu, Baolong Li , Xiaoqing Zhao

1. **An Improved Gauss-Seidel Algorithm for Signal Detection in Massive MIMO Systems**

Xiaoqing Zhao , Zhengquan Li , Qiong Wu, Yang Liu, Ziyan Jia, Cheng Zhou

1. **An ESPRIT Parameter Estimation Algorithm Based on Non-Circular Signal for MIMO Radar**

Jurong Hu; Ying Tian; Baidoo Evans, Xiaoyong Ni, Lei Zhan

1. **A Novel AoA Estimation Algorithm Based on Phase Compensation of Linear Array**

Xiaolong Yang; Yuan She; Jiacheng Wang; Mu Zhou; Zengshan Tian;Xin Yu

1. **A passive direction finding algorithm based on baselines selected from phased array**

Jingtao Ma; Siyue Sun; Guang Liang; Songling Lv; Xinglong Jiang

### W-8:Satellite Communication II

**Date: Jan.12,2019**

**Time: 16:00pm - 17:30pm**

**Room: Yakurt5 Hall**

**Chair: Kanglian Zhao**

1. **A Novel Dynamic Multi-source Multi-sink Flow Algorithm over the Satellite Networks**

Peng Wang, Hongyan Li, Tao Zhang, Shun Zhang, Keyi Shi

1. **A Load-balancing Based Research on Inter-satellite Link-building Planning for Navigation Satellite Network**

Weisong Jia, Liang Qiao, Lijun Yang, Tao Zhang

1. **A Weighted Set Cover Model for Task Planning of Earth Observation Satellites**

Pengyun Li, Hongyan Li, Jun Chang

1. **Information Flow Design and Verification for Networked Satellite Systems**

Jia Guo, Nuo Xu

1. **Study on Autonomous Mission Management Method for Remote Sensing Satellites**

Chao Lu, Fang Ren

1. **Coverage of Hotspot Region with Small Satellite Constellation Design and Optimization**

Anlin Xu, Xiaoen Feng, Yuqing Li, Huaifeng Li , Donglei He

### W-9:Networks Optimization

**Date: Jan, 12, 2019**

**Time: 16:00pm - 17:30pm**

**Room: Yakurt6 Hall**

**Chair: Xiaojin Ding**

1. **A Novel Resource Optimization Algorithm for Dynamic Networks Combined with NFV and SDN**

Qian Zhang, Xiaohua Qiu, Xiaorong Zhu

1. **An Energy Efficient Multicast Algorithm for Temporal Networks**

Keyi Shi, Hongyan Li, Peng Wang, Tao Zhang

1. **Intelligent Dynamic Timeout for Efficient Flow Table Management in Software Defined Satellite Network**

Shahid Jan, Qing Guo, Min Jia, Khan, Muhammad Kamran

1. **Successive-Parallel Interference Cancellation Multi-User Detection Algorithm for MUSA Uplink**

Shaochuan Wu, Rundong Zuo,Wenbing Zhang, Yanwu Song

1. **The Low Complexity Multi-User Detection Algorithms for Uplink SCMA System**

Jingjing, Wu; Shaochuan,Wu, Rundong, Zuo, Wenbin,Zhang

1. **HMM Static Hand Gesture Recognition Based on Combination of Shape Features and Wavelet Texture Features**

Lizhi Zhang,Yingrui Zhang,Lianding Niu, Zhijie Zhao ,Xiaowei Han

### W-10: Multiple Access

**Date: Jan, 12, 2019**

**Time: 16:00pm - 17:30pm**

**Room: Executive Lounge Conference Room**

**Chair: Xiaorong Zhu**

1. **Optimized Power Allocation for Weighted Complementary Coded-CDMA Systems**

Zaiyang Jiang, Siyue Sun, Guang Liang, Huawang Li

1. **Joint Uplink and Downlink Optimization for Wireless Powered NOMA OFDM Communication Systems**

Mengshu Zhang，Zhenyu Na，Mei Yang, Weidang Lu, Xin Liu

1. **Adaptive Subcarrier-Bandwidth Multiple Access (ABMA) for High-Mobility Environments**

Jionghui Li, Xiongwen He, Xiaofeng Zhang, Fan Bai

1. **Energy Efficiency Optimization Based SWIPT in Multiuser OFDM Systems**

Shanzhen Fang, Weidang Lu, Bo Li, Xin Liu, Zhenyu Na

1. **Half-duplex Two-Way AF Relaying Network with Energy Harvesting**

Weilin Zhao, Weidang Lu,Yu Zhang, Bo Li,Xin Liu, Zhenyu Na

1. **Alternative extended block sparse Bayesian learning for cluster structured sparse signal recovery**

Lu Wang, Lifang Zhao, Xin Liu

### W-11: Spaceborne Network & Spacecraft II

**Date: Jan.12,2019**

**Time: 16:00pm - 17:30pm**

**Room: Togus 7 Hall**

**Chair: Liangbo Xie**

1. **MPTCP Based Load Balancing Mechanism in Software Defined Satellite Networks**

Ziyi Ma, Xiaoqiang Di, Jinqing Li, Ligang Cong, Ping Li

1. **Design and Verification of a Novel Switching Architecture for Onboard Processing**

Chenhua Sun; Bo Yin ; Zhibin Dou

1. **A novel approach to lighten the onboard hyperspectral anomaly detector**

Ning Ma; Yu Peng; Shaojun Wang; Jingyi Dong

1. **Over the Air Test Method for Beidou intelligent terminals**

Qinjuan Zhang; Na Wang, Xun Dai, Shijiao Zhang, Xiaochen Chen

1. **Channel States Information Based Energy Detection Algorithm in Dual Satellite Systems**

Weizhong Zhang; Mingchuan Yang ; Wenqiu Wei; Qing Guo

1. **Enhancing Capture Effect over LEO satellite within the Framework of Contention Resolution ALOHA**

Zhicheng Qu; Genxin Zhang ; Haotong Cao ; Jidong Xie

### W-12: Battery Design & CMOS

**Date: Jan.12,2019**

**Time: 16:00pm - 17:30pm**

**Room: Togus 8 Hall**

**Chair: Mu Zhou**

1. **Design of A 20W-nW 0.8-V Voltage Reference Circuit in All-CMOS Technology**

Jianhai Yu, Hui Guo

1. **Design of a All-CMOS Second-order Temperature Compensated Bandgap Reference**

Jianhai Yu; Guojin Peng; Kuikui Wang

1. **A modified model based resistance estimation of lithium-ion batteries using unscented Kalman filter**

Jinglong Chen; Rixin Wang

1. **Shielding Effectiveness Improvement method of Optoelectronic Instrumental Windows Utilizing Transparent Mesh PET Film**

Kai Cao; Kairang Wang; Changwen Liu

### W-13: Drone Technology

**Date: Jan.13,2019**

**Time: 08:30am - 10:00am**

**Room: Solon Hall**

**Chair: Xin Liu**

1. **A ICP-improved Point Cloud Maps Fusion Algorithm with Multi-UAV Collaboration**

Hao Li; Xiaohan Qi; Zhihua Yang

1. **Collaborative Visual SLAM Framework for a Multi-UAVs System Based on mutually Loop Closing**

Haifeng Yu, Hao Li, Zhihua Yang

1. **Industry Research and Standardization Progress in Cellular Communication Solution for Unmanned Aerial Vehicle Application**

Pei Guo and Zhao Cheng

1. **Resource Allocation Scheme Based on Beetle Antennae Search Algorithm for Collaborative Communication of The Unmanned Aerial Vehicle Network**

Xujie Li; Lingjie Zhou; Ying Sun; Siyuan Zhou, Mu,Lu

1. **Robust UAV communications with jamming**

Haichao Wang , Junnan Yao , Jin Chen, Guoru Ding, Ling Yu

1. **A Joint technology of UAV SAR based on OFDM Waveform**

Yun Zhang; Xin Qi; PengLu Guo; Nan Qiao

### W-14: Drone Technology & Adaptive Sensing

**Date: Jan.13,2019**

**Time: 08:30am - 10:00am**

**Room: Yakurt5 Hall**

**Chair: Zhian Deng**

1. **A Link-prediction based Multi-CDSs Scheduling Mechanism for FANET Topology Maintenance**

Xiaohan Qi; Xinyi Gu, Qinyu Zhang, Zhihua Yang

1. **A Quick Adaptive Migration Algorithm for Virtual Network Function**

Yizhong Wang; Xiaorong Zhu, Xiaohua Qiu

1. **Adaptive compressed wideband spectrum sensing based on radio environment map dedicated for space information networks**

Xiaoluan Zhang, Youping Zhao, Hongbin Chen

1. **UAV Tracking with Proposals Based on Optical Flow**

Min Jia; Zheng,Gao, Zhisong Hao, Qing Guo

1. **Detection Probability Analysis of Spectrum Sensing over Satellite Fading Channel**

Xiaogu Huang, Xiaojin Ding, Haoyu Li, Yunfeng Wang, Gengxin Zhang

1. **Analysis of the classical spectrum sensing algorithm based on transmitter**

Xiaolin Jiang, su-su Qu, zheng-yu Tang

### W-15: VANET

**Date: Jan, 13, 2019**

**Time: 08:30am - 10:00am**

**Room: Yakurt6 Hall**

**Chair: Bo Li**

1. **A Pseudorange Difference Positioning Algorithm for Automatic Driving**

Yi Chen, Yong Wang, Wei He, Qing Jiang, Mu Zhou

1. **Analysis of the Impact of Communication Link Outage on Throughput of VANETs Based on TDMA**

Guiting Li, Xuan Zhang, Junyu Guo,Qi Yang

1. **Analysis on Merging Collision Probability in TDMA based VANET**

Yuqiang Zhao, Xuan Zhang, Rongping Zheng, Qi Yang

1. **Radio Resource Allocation for V2X Communications based on Hybrid Multiple Access Technology**

Tong Xue, Wei Wu, Qie Wang and Xuanli Wu

1. **The Application Design of SOIS Electronic Data Sheets in Onboard Integrated Electronic System**

Lijun Yang,Xiongwen He , Yan Du, Luming Li, Liang Mao, Chen, Bohan

1. **Research on Fourier Descriptor Image Retrieval Technology Based on Minimum Inertia Axi**s

Zhijie Zhao, Ze Gao Huadong Sun Xuesong Jin

### W-16: WiFi

**Date: Jan, 13, 2019**

**Time: 08:30am - 10:00am**

**Room: Executive Lounge Conference Room**

**Chair: Xiaolong Yang**

1. **Device-free Stationary Human Detection with WiFi in Through-the-wall Scenarios**

Zhengwu Yuan, Shiming Wu,Xiaolong Yang, Jiacheng Wang

1. **Precise Direction Detector Indoor Localization System Based on Commodity Wi-Fi**

Xiaolong Yang,Xin Yu, Jiacheng Wang, Mu Zhou, Qing Jiang

1. **Through-the-wall Human Behavior Recognition Algorithm With Commercial Wi-Fi Devices**

Zhenhua Yang, Xiaolong Yang, Mu Zhou, Shiming Wu

1. **WiFi CSI Fingerprinting Positioning Based on User Rotation**

Jiahao Zhang, Ming Zhang, Yin, Zuoliang , Zhian Deng , Wijian Si

1. **A Novel MAC Protocol in Multi-hop Wireless Networks Through Dynamically Optimizing Backoff**

sanada takumi, Xuejun Tian, Takashi Okuda,Ryo Horie

1. **A High Precision Indoor Cooperative Localization Scheme Based on UWB Communication**

Guofu Yong,Zhuoran Cai,Hao Dong

### W-17: Filtering & Interference Cancellation

**Date: Jan.13,2019**

**Time: 08:30am - 10:00am**

**Room: Togus 7 Hall**

**Chair: Wei Wu**

1. **Power Control Based on Kalman Filter for Uplink Transmission in Two-tier Heterogeneous Networks**

Kai Sun, Yongze Cao, Anqi Shen, Xiaojun Yue, Wei Huang

1. **A New Differential Evolution Algorithm(ESA-DE) with Elite-Guided Mutation and Self-Adaptive Parameter for Designing FIR Digital Filters**

Deng Libao, Haili Sun, Lili Zhang

1. **Low Complexity Sensing Algorithm of Periodical Impulsive Interference**

Yingtao Niu, Yutao Wang, Cheng Li

1. **Research on Detection Algorithm of DSSS Signals under Alpha Stable Distribution Noise**

Du Yu; Yang Weichao

1. **A Transfer Learning Method for CT image Classification of Pulmonary Nodules**

Ran Wang, Huadong Sun, Jialin Zhang, Zhijie Zhao

### W-18:Satellite Communication

**Date: Jan.13,2019**

**Time: 08:30am - 10:00am**

**Room: Togus 8 Hall**

**Chair: Ruofei Ma**

1. **Multi-satellite Non-cooperative Communication Based on Transform Domain Communication System**

Cheng Chang, Zhe Li, Guowei Yao , Yun Xia , Shuo Shi

1. **Design of GEO/LEO Double-Layered Satellite Network Based on Rateless Code for Global Information Distribution**

Chuang，Wang, Dongming，Bian, Xingchen，Xu, Jian，Cheng, Feilong，Li

1. **Resource allocation based on auction game of satellite avionics system**

Rui, Wang, Xiao-dong, Han, Yang, Li, Chao, Wang, Xi, Zhou

1. **A New Type Double-Threshold Signal Detection Algorithm for Satellite Communication Systems Based on Stochastic Resonance Technology**

Jiang Xiaolin Diao Ming

1. **Optimization methods of motion recognition system based on CSI**

Dezhi,Li; Hongtao,Zhu; Zhenyong, Wang; Qing,Guo; Wang, Zhenbang,Wang

1. **A Load-balancing Based Research on Inter-satellite Link-building Planning for Navigation Satellite Network**

Weisong Jia, Liang Qiao Lijun Yang, Tao Zhang

### W-19: Image Processing

**Date: Jan,13,2019**

**Time: 10:30am - 12:00am**

**Room: Solon Hall**

**Chair: Yun Lin**

1. **Detection of print head defect based on Image Processing Technology**

Zhanfeng Zhao, Duo Liu, Longwei Wang,

1. **A 3-D Migration Imaging Algorithm Suitable for Expressway Detection**

Yiming Pu, Jiayan Zhang, Yongkui Ma,Xu Bai and Shuai Wang

1. **Target Evaluation of Remote Sensing Image Based on Scene Context Guidance**

Wenjuan Li, Shunan Shang, Ling Tong

1. **Design and Implementation of Multi-Partition paralleled image storage hardware file system for MARS Rover**

Yong Xu, Cuilian Wang, Lei Zhao, Pangfeng Wu, Wenjuan Li

1. **Research on Image Static Target Recognition and Extraction Based on Space Intelligent System**

Yufei Huang， Jia Xu ，Xiangyu Lin，Xiongwen He, Ran Zhang, Wenjie Li

1. **An Algorithm of Single Image Depth Estimation Based on MRF Model**

Lizhi Zhang, Yongchao hen,Lianding Niu, Zhijie Zhao, Xiaowei Han

### W-20: Localization

**Date: Jan, 13, 2019**

**Time: 10:30am - 12:00am**

**Room: Yakurt5 Hall**

**Chair: Zhenyu Na**

1. **Centimeter-Level Localization algorithm with RFID Passive Tags**

Liangbo Xie，Die Jiang，Xiaohui Fu，Qing, Jiang

1. **An Adaptive Fingerprint Database Updating Scheme for Indoor Bluetooth Positioning**

Liangbo Xie， Haifeng Cong，Mu Zhou

1. **Backscatter signal blind detection and processing for UHF RFID localization system**

LiangBo Xie, Xin Xiong, Qingfei Kang, Zengshan Tian

1. **Rough Set Reduction Aided Cost-efficient Indoor WLAN Localization**

Hui,Yuan; Mu,Zhou; Zhian,Deng; Liangbo,Xie; Yong,Wang; Xiaolong,Yang

1. **Design and implementation of a RF transceiver front-end for UHF RFID localization system**

WenJun Lv, LiangBo Xie,LingXia Li, Yi Chen, Bin Luo,

1. **RSSI-Fading-Based Localization Approach in BLE5.0 Indoor Envorinments**

Bo Xu, Xiaorong zhu,Hongbo Zhu

### W-21: Space Network

**Date: Jan, 13, 2019**

**Time: 10:30am - 12:00am**

**Room: Yakurt6 Hall**

**Chair: Kui Xu**

1. **Information Centric Networking for Future Deep Space Networks**

Yongqi Zhou, Wenfeng Li, Kanglian Zhao

1. **Research for Data Communications Based on IPv6 in Integrated Space-ground Network**

Panpan Zhan, Xiongwen He, Zhigang Liu, Zheng Qi, Ming Gu, Cuitao Zhang, Dong Yan

1. **Markov Decision based Optimization on Bundle Size for Halo Orbit-relay Earth-Lunar DTNs**

Yunlai Xu, Ye Wang, Zhihua Yang, Shushi Gu, Yue Li, Peng Yuan

1. **A New Gateway Switching Strategy in Q/V Band High Throughput Satellite Communication Systems Feeder Links**

Jiahao Yang, Wenkai Zhang, Mingchuan Yang,Yanyong Su

1. **Link Assignment and Information Transmission Route Planning for BDS Inter-Satellite Link Network**

Hongbo Zhao, Shurui Zhou, Wenquan Feng, Yue Jia, Bo Pang

1. **Outage Probability Analysis for Hybrid Satellite and Terrestrial Network with Different Combining Schemes**

Guoqiang Cheng,Zhi Lin,Qingquan Huang, Min Lin, Ouyang Jian

### W-22: FPGA & ICS

**Date: Jan, 13, 2019**

**Time: 10:30am - 12:00am**

**Room: Executive Lounge Conference Room**

**Chair: Zhihua Yang**

1. **Design And Implementation of Stereo Vision System Based on FPGA**

Qian Wang，Xin Gu，Hua Wang,Guowei Yao

1. **Test Scheduling of Interposer-Based 2.5-D ICs Using Enhanced Differential Evolution Algorithm**

Libao Deng, Ning Sun, Ning Fu

1. **A TDR-Based Method for Pre-bond Testing of the Silicon Interposer in 2.5D Ics**

Libao Deng, Ning Sun, Ning Fu

1. **Design and implementation of a large-scale link simulator**

Mengguo Shi, Kanglian Zhao, Wenfeng Li

1. **An Improved RTEMS Supporting Real-time Detection of Stack Overflow**

Rui Zhang, Yan Du, Tao Zhang, Qiu Qi, Liang Mao, Jiaxiang Niu

1. **FPGA-based HD Image Processing System**

Xinxin He, Linbo Tang

### W-23: Neural Network & Learning

**Date: Jan, 13, 2019**

**Time: 10:30am - 12:00am**

**Room: Togus 7 Hall**

**Chair: Shaochuan Wu**

1. **A deep learning method based on convolution neural network for blind demodulation of mixed signals with different modulation types**

Hongtao Zhu , Zhenyong Wang ,Dezhi Li , Qing Guo , Zhenbang Wan

1. **A Spectrum Prediction Technique Based on Convolutional Neural Networks**

Jintian Sun, Xiaofeng Liu, Guanghui Ren, Min Jia ,Qing,Guo

1. **Feature Extraction and Identification of Pipeline Intrusion Based on Phase-Sensitive Optical Time Domain Reflectometer**

Zhanfeng Zhao, Duo Liu,Weilong Wang, Junshu Liu

1. **Long-term Object Tracking Method Based on Dimensionality Reduction**

Dongfang Zhao, Wenjing Kang, Gongliang Liu

1. **Research on intelligent wireless channel allocation in HAPS 5G system based on reinforcement learning**

Zhou Wu, Mingxiang Guan ,Yingjie Cui, Xuemei Cao, Le Wang, Jianfeng Ye , Bao Peng

### W-24: Machine Learning & Network Security

**Date: Jan, 13, 2019**

**Time: 10:30am - 12:00am**

**Room: Togus 8 Hall**

**Chair: Aili Wang**

1. **WLAN Indoor Passive Intrusion Detection Method Based on SVDD**

Yong Wang, Xiaoya Zhang, Gao Luoying ,Mu Zhou, Lingxia Li

1. **Blockchain-based SDN Security Guaranteeing Algorithm and Analysis Model**

Zhedan Shao, Xiaorong Zhu, Chikuvanyanga AlexanderM M, Zhu Hongbo

1. **Real-time system fault-tolerant scheme based on improved chaotic genetic algorithm**

Junjie Kang, Gang Hou, Jie Wang

1. **Research on Diabetes Management Strategy Based on Deep Belief Network**

Yang Liu, Zhijie Zhao, Jiaying Wang, Ang Li, Jialin Zhang