

## Regular Papers

### **Agricultural Few-Shot Selection by Model Confidences for Multimedia Internet of Things Acquisition Dataset**

Jiachen Yang, Zhuo Zhang and Yang Li (Tianjin University, China)

### **UA-HGAT: Uncertainty-Aware Heterogeneous Graph Attention Network for Short Text Classification**

Deyan Kong and Zhenyan Ji (Beijing Jiaotong University, China); Yanjuan Sang (Blue Intelligence, China); Wei Dong (Institute of Software, Chinese Academy of Sciences, China); Yanyan Yang (Beijing Jiaotong University, China)

### **A Self-Supervised Purification Mechanism for Adversarial Samples**

Bingyi Xie, Honghui Xu, Zuobin Xiong, Yingshu Li and Zhipeng Cai (Georgia State University, USA)

### **Performance Assessment of Deep Neural Network on Activity Recognition in WiFi Sensing**

Jianchao Song, Cheng Qian, Xing Liu, Hengshuo Liang, Chao Lu and Wei Yu (Towson University, USA)

### **Information Extraction and Analysis of Chinese Traffic News**

Xiaoxian Dong, Xiaoxiong Weng and Yancheng Ling (South China University of Technology, China)

### **IoT Device Friendly Leveled Homomorphic Encryption Protocols**

Marin Matsumoto and Masato Oguchi (Ochanomizu University, Japan)

### **High Precision Method of Federated Learning Based on Cosine Similarity and Differential Privacy**

Jia Wang (Shenzhen University, China); Yazheng Li (Zhengzhou University of Industrial Technology, China); Ronghang Ye and Jianqiang Li (Shenzhen University, China)

### **Theoretical Analysis of QBER for Quantum Key Distribution in 5G Multi-Site Networks**

Jordi Mongay Batalla (Warsaw University of Technology & National Institute of Telecommunications, Poland); Sławomir Sujecki (Military University of Technology, Poland); Houbing Song (Embry-Riddle Aeronautical University, USA); Constandinos X. Mavromoustakis (University of Nicosia & University of Nicosia Research Foundation, Cyprus); Tomasz Wichary (Warsaw University of Technology, Poland)

### **CNN-Based Emotional Stress Classification Using Smart Learning Dataset**

Andreas Andreou (University of Nicosia Research Foundation, Cyprus); Constandinos X. Mavromoustakis (University of Nicosia & University of Nicosia Research Foundation, Cyprus); Houbing Song (Embry-Riddle Aeronautical University, USA); Jordi Mongay Batalla (Warsaw University of Technology & National Institute of Telecommunications, Poland)

**The Data Mining on the Rheological Properties of Asphalt and Mechanical Properties of Asphalt Mixtures**

Long Xing (CRCC Xinjiang Jin Xin Expressway Cp, Ltd, Xian, China)

**QoS-Aware Joint User Scheduling and Power Allocation for Energy Harvesting Wireless Networks**

Jun Li and Qinghe Du (Xi'an Jiaotong University, China)

**A Survey of Machine Learning Algorithms and Techniques for Air Mobility Under Emergency Situations**

Yujing Zhou, Dahai Liu and Houbing Song (Embry-Riddle Aeronautical University, USA)

**EvoSense: Towards Self-Evolving WiFi-Based User Gait Recognition**

Yao Yao, Chengwen Luo, Xingyu Feng, Yijing Huang, Jin Zhang and Jianqiang Li (Shenzhen University, China)

**A Taxonomy of Security and Defense Mechanisms in Digital Twins-Based Cyber-Physical Systems**

Adamu Hussaini, Cheng Qian, Weixian Liao and Wei Yu (Towson University, USA)

**How do Programmers Use the Internet? Discovering Domain Knowledge from Browsing and Coding Behaviors**

Ko Watanabe (TU Kaiserslautern, Germany)

**Reliability Analysis and Optimization for Sensing Data Collection and Processing in New Energy Internet Systems**

Huanjun Hu (Energy Internet Laboratory, China); Jie Wang (School of Electronic Information, WuHan University, China); Jing Wang, Shengwei Wang, Yixi Wang, Yuxuan Ye and Rongtao Liao (Energy Internet Laboratory, China)

**3D Human Pose and Shape Estimate from Video**

Xun-Yu Liu (Shenzhen University, China); Lei Wang (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China); Xiao-Liang Ma (Shenzhen University, China); Gong-Bin Chen (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China); Cheng He (Shenzhen University, China); Jun Cheng (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China)

**Resource Allocation and Computation Offloading in URLLC Systems via Deep Reinforcement Learning**

Jiahui Li, Jiaxin Yan and Baolin Yin (Southwest University of Science and Technology, China); Ran Wei (Hangzhou Terminus Network Technology Co., Ltd., China); Liang Zhao (Southwest University of Science and Technology, China)

## Short Papers

### **Semi-Supervised Algorithms in Resource-Constrained Edge Devices: An Overview and Experimental Comparison**

Mahdi Barhoush, Ahmed Ayad and Anke Schmeink (RWTH Aachen University, Germany)

### **Business Process Modeling and Structure Optimization of Resource Coupling in Edge Computing**

Xiaobo Cai (Yunnan Agricultural University, China)

### **Smart Detection of Social Distance Violations using Gaussian Lens Model and Deep Learning**

Jenny Liu (Spruce Creek High School, USA)

### **MMC Online Thermal Simulation and Life Prediction Based on Digital Twin Technology**

Tianlong Xiong (Sichuan Energy Internet Research Institute, Tsinghua University, China); Min Luo (Plexim GmbH, China); Chao Yang, Qing Cheng and Yawen Liu (Sichuan Energy Internet Research Institute, Tsinghua University, China)

### **LigNet: Lightweight Hand Tracking for Edge Intelligence**

Yijing Huang, Chengwen Luo, Xingyu Feng, Zhongru Yang, Jin Zhang and Jianqiang Li (Shenzhen University, China)

### **Age Upon Decisions for Low-Latency Services in Internet of Energy Systems**

Weiqing Yao (Energy Internet Laboratory, China); Zhiwei Bao (School of Electronic Information, Wuhan University, China); Xiao Luo and Jing Wang (Energy Internet Laboratory, China); Jie Wang (School of Electronic Information, Wuhan University, China)

### **Short-Dataset-Driven Prediction on Area Electricity Consumption with Adaptive Training Window Selection**

Jie Wang (School of Electronic Information, Wuhan University, China); Shengwei Wang (Huazhong University of Science and Technology, China); Jing Wang, Huanjun Hu, Yixi Wang, Yuxuan Ye and Rongtao Liao (Energy Internet Laboratory, China)