

The 6th EAI International Conference on Smart Grid and Internet of Things (SGIoT 2022)

Program-At-a-Glance

November 19, 2022	
8:50~9:00	Registration
9:00~10:20	Technical Session: (MEETING ROOM WEST)
10:20~10:30	Break
10:30~10:40	Opening
10:40~10:50	Welcome Speech
10:50~12:00	Keynote Speech (MEETING ROOM WEST)
12:00~13:30	Luncheon
13:30~15:00	Online Technical Session: (MEETING ROOM WEST)
15:00~15:30	Break
15:30~17:00	Online Technical Session: (MEETING ROOM WEST)
November 20, 2022	
8:30~10:00	Online Technical Session: (MEETING ROOM WEST)
10:00~10:30	Break
10:30~12:00	Online Technical Session: (MEETING ROOM WEST)

November 19, 2022

09:00 – 10:20 Technical Session

Meeting Room: West, Session Chair: Chien-Liang Chen

1. **AI-based iBeacon Indoor Positioning Cybersecurity Attacks and Defenses Thereof**
Fang-Yie Leu, Chi-Jan Huang, Cheng-Jan Chi and Wei-Tzu Hung
2. **Using Push Technology to Discover Factors Influencing Consumers' Intention to Purchase Greenwashed Products**
Chia-Ling Ho, James Robert Forster and Ling-Yun Yen
3. **A Real-time Streaming Application for License Plate Recognition Using OpenALPR**
Hsi-Jen Chen, Halim Fathoni, Zheng-Yao Wang, Kai-Yu Lien and Chao-Tung Yang
4. **Image Classification for Smoke and Flame Recognition using CNN and Transfer Learning on Edge Device**
Endah Kristiani, Yi-Chun Chen, Chao-Tung Yang and Chia-Hsin Li
5. **Face Emotion Expression Recognition using DLIB Model and Convolutional Neural Network Approach for Supporting Online Learning**
Rita Wiryasaputra, Chin-Yin Huang, Jimmy Juliansyah and Chao-Tung Yang
6. **Digital Transformation Application of Precision Industrial Quotation System**
Wen-Hsing Kao, Yi-Mei Zeng, Zi-Ying Nian and Rung-Shiang Cheng

10:20 – 10:30 Break

10:30 – 10:40 Opening

Prof. Der-Jiunn Deng, National Changhua University of Education, Taiwan

10:40 – 10:50 Welcome Speech

Dr. Po Tao Chen, Chairman of Overseas Chinese University, Taiwan

10:50 – 12:00 Keynote Speech

Chair: Prof. Der-Jiunn Deng, National Changhua University of Education, Taiwan

Speaker: Prof. Han-Chieh Chao, National Dong Hwa University, Taiwan.

12:00 – 13:30 Luncheon

13:30 – 15:00 Online Technical Session

Meeting Room: East, Session Chair: Prof. Hung-Chang Chan

1. **Applying the Shapley Value Method to Predict Mortality in Liver Cancer based on Explainable AI**
Lun-Ping Hung, Chong-Huai Xu, Ching-Sheng Wang and Chien-Liang Chen
2. **Using HTC Vive to Design a Virtual Reality Simulation Environment on Radiography**
Lun-Ping Hung, Mine-Che Wu, Yu-Rang Jhang and Wen-Lung Tsai
3. **Angular Position Estimation For Human-Following and Robot Navigation**
Isaac Asante, Lau Bee Theng and Mark Tee Kit Tsun
4. **A Collision Aware Multi-link Operation for Next Generation WLAN**

Disheng An, Bo Li, Mao Yang and Zhongjiang Yan

5. **An Adaptive Beamtracking Method for the Next Generation mmWave WLAN**

Qingkun Li, Mao Yang, Zhongjiang Yan and Bo Li

6. **A Channel Reservation Mechanism in IEEE 802.11be for Multi-Cell Scenarios**

Siyuan Liu, Ding Wang, Mao Yang, Zhongjiang Yan and Bo Li

15:00 – 15:30 Break

15:30 – 17:00 Online Technical Session

Meeting Room: West, Session Chair: Prof. Li-Wei Chang

1. **A Coexistence Method of Short-range Heterogeneous Network based on Cell Cooperation**

Yunlong Wang, Bo Li, Mao Yang and Zhongjiang Yan

2. **Edge Station Throughput Enhancement Method based on Energy Detection Threshold and Transmission Power Joint Dynamic Adjustment**

Fenglian Lan, Bo Li, Mao Yang and Zhongjiang Yan

3. **Research on Backbone Routing Protocol of Ad Hoc Network based on SDN**

Yiming Yang, Ding Wang, Mao Yang, Zhongjiang Yan and Bo Li

4. **Joint Energy Detection and Transmission Power Adjustment for FIM problem in High Density WLANs**

Yujie Wang, Qi Yang, Mao Yang, Zhongjiang Yan and Bo Li

5. **An Uplink OFDMA Access Method for Low Latency in Next-generation WLANs**

Qingsong Gao, Ding Wang, Mao Yang, Bo Li and Zhongjiang Yan

6. **Research on Industrial Policy and Sharing Principles Based on IoT Cloud Data**

Xie Shen and Cheng Chen

7. **Construction of IoT Data Sharing and Sharing Mechanism in the Internet of Things Era**

Xie Shen and Cheng Chen

November 20, 2022

8:30 – 10:00 Online Technical Session

Meeting Room: West, Session Chair: Prof. Yu-Liang Liu

1. **A Two-Level Adaptive Resource Allocation Algorithm for Quality of Service Guarantee in Home WiFi Networks**
ZhanYu Zhang, Bo Li, Zhongjiang Yan and Mao Yang
2. **A Joint Optimization Method for Scheduling and Random Access Based on the Idea of Particle-based Access in IEEE 802.11ax**
Ke Sun, Bo Li, Zhongjiang Yan and Mao Yang
3. **Non-Uniform Time Slice Parallel Simulation Method Based on Offline Learning for IEEE 802.11ax**
Yangyang Xin, Mao Yang, Zhongjiang Yan and Bo Li
4. **Bidirectional Scanning Based Medium Access Control Algorithm in Directional Aviation Relay Network with Multiple Air Nodes**
Gaoxiang Ma, Zhongjiang Yan, Mao Yang and Bo Li
5. **A Cross-domain Authentication Scheme Based Master-slave Chain in Edge Computing**
Zhiyuan Li and Zhenjiang Zhang
6. **The Calibration of inspection data on juvenile theft cases in 5G context and IOT Age**
Cheng-yong Liu, Zhi-xin Wang, Hui-lin Liang and Xiu-Wen Ye
7. **Social Risk Analysis of Smart Grid Based on Emerging Technologies in the Chinese Context: A Review Based on CiteSpace**
Ziyi Chen and Yingsi Zhao

10:00 – 10:30 Break

10:30 – 12:00 Online Technical Session

Meeting Room: West, Session Chair: Prof. Chien-Liang Chen

1. **A Survey on IoT Modules: Architecture, Key Technologies and Future Directions**
Rong Chai and Yifan Gao
2. **Comprehensive Task Priority Queue for Resource Allocation in Vehicle Edge Computing Network Based on Deep Reinforcement Learning**
Zhaonian Li, Changxiang Chen and Zhenjiang Zhang
3. **Design of Malicious Code Detection System Based on Convolutional Neural Network**
Yumeng Wu, Jianjun Zeng, Zhenjiang Zhang, Wei Li, Zhiyuan Zhang and Yang Zhang
4. **The Impact of Disposal Effects Generated by Internet of Things Technology on Quantitative Investment**
Qiong Wang
5. **Research on Informatization Platform of University Performance Appraisal Based on Big Data Collection Based on Internet of Things Technology**
Shuo Huang
6. **Research on Edge Computing Offloading Based on Reinforcement Learning in Multi-User Scenarios**
Zi-Hang Yu, Jian-Jun Zeng, Sai Liu and Zhen-Jiang Zhang
7. **Combined Short-term Load Forecasting Method Based on HHT**

