

CONFERENCE PROGRAM

**2021 IEEE International Conference on Electronic Technology,
Communication and Information (ICETCI 2021)**

August 27-29, 2021 Changchun, China

www.icetci.org



Program (GMT+8:00 Beijing Time)

August 27, 2021	
09:00 – 18:00	Online Registration
August 28-29, 2021 Poster Presentation Session	
09:00 – 18:00	http://icetci.org/Posters.html
August 28-29, 2021 Oral Presentation Session(Tencent Meeting)	
August 28, 08:00 – 12:00	Oral Session A, B, C
August 28, 14:00 – 17:00	Keynote Session Meeting ID: 260 347 700 https://meeting.tencent.com/s/G7Y6LsReoZSA
August 28, 14:00 – 14:20	Welcome
August 28, 14:20 – 15:30	Keynote I Prof. Huiyu Zhou University of Leicester, UK
August 28, 15:30 – 17:00	Keynote II Prof. Hironori Washizaki Waseda University, Japan
August 29, 08:00 – 12:00	Oral Session D, E
August 29, 14:00 – 18:00	Oral Session F, G

Note: All the time listed is based on GMT+8:00 Beijing Time.

Online meeting software is Tencent Meeting.

Poster Presentation Session

Session	Presentation Papers
Poster Session 1	EC009, EC013, EC015, EC024, EC035, EC039, EC070, EC085, EC092, EC103, EC111
Poster Session 2	EC112, EC115, EC118, EC119, EC120, EC127, EC133, EC134, EC135, EC136, EC137
Poster Session 3	EC138, EC146, EC147, EC149, EC166, EC178, EC191, EC204, EC216, EC221, EC245

Oral Presentation Session

Oral Session	Presentation Papers
Session A Meeting ID: 377 471 042	https://meeting.tencent.com/s/n5FI3OPR1QVr EC001, EC002, EC005, EC006, EC007, EC010, EC011, EC012 EC014, EC018, EC020, EC022, EC023, EC026, EC027, EC028
Session B Meeting ID: 325 138 585	https://meeting.tencent.com/dm/TYWg6AI5kmsb EC030, EC031, EC033, EC034, EC037, EC041, EC042, EC044 EC045, EC046, EC049, EC050, EC052, EC058, EC061, EC063
Session C Meeting ID: 899 765 372	https://meeting.tencent.com/dm/b1qCkS6iUmay EC065, EC066, EC067, EC068, EC071, EC076, EC079, EC082 EC083, EC086, EC088, EC089, EC091, EC094, EC095, EC097
Session D Meeting ID: 994 904 968	https://meeting.tencent.com/dm/CjjVYLFE9yx0 EC098, EC099, EC101, EC102, EC110, EC116, EC122, EC126, EC128, EC131, EC132, EC140, EC141, EC142, EC145
Session E Meeting ID: 952 369 188	https://meeting.tencent.com/dm/6bQdzlRhhM0D EC148, EC160, EC161, EC165, EC167, EC170, EC175, EC177, EC180, EC181, EC182, EC185, EC187, EC188, EC189
Session F Meeting ID: 874 341 421	https://meeting.tencent.com/dm/1nuLHLWlivgl EC193, EC195, EC196, EC199, EC200, EC201, EC203, EC206, EC207, EC209, EC210, EC211, EC212, EC213, EC218
Session G Meeting ID: 245 667 329	https://meeting.tencent.com/dm/R0595KqLiSQo EC220, EC222, EC225, EC227, EC228, EC230, EC232, EC233, EC235, EC236, EC240, EC241, EC246, EC251, EC252

Poster Session 1

EC009	An Effective Location Privacy-Preserving K-anonymity Scheme in Location Based Services
	<i>Haoyu Liu, Shiwen Zhang, Mengling Li, Voundi Koe Arthur Sandor, Wei Liang</i>
EC013	Discussion on the Standard and Evaluation of Communication Equipment Testing
	<i>Xu Jiren, Liu Tongzan, Pei Kunpong, Wu Dongsheng, Zhao Xiaolan</i>
EC015	Automatic Recognition of Pointer Meter Reading Based on Yolov4 and Improved U-net Algorithm
	<i>Jishen Peng, Mingyang Xu, Yunfeng Yan</i>
EC024	Design and Simulation Analysis of Anti-Corona Structure at the end of the Stator Bar of Large Hydrogenerators
	<i>Peng Yuan, He Wang</i>
EC035	Application of Neural Graph Collaborative Filtering in Movie Recommendation System
	<i>Yingxin Hou</i>
EC039	Research of the Propagation Characteristic of Electromagnetic Wave in the Human Body
	<i>Mengxi Yang, Zhangfan Ye</i>
EC070	Design of Distributed Cache System in SDN Controller Cluster Based on Topology Partition
	<i>Wei Jiang, Fei Xia, Hui Liu, Jun Yu</i>
EC085	Multi-Scale Feature Fusion Network for Video-Based Person Re-Identification
	<i>Penggao Liu, Mingjing Ai, Guozhi Shan</i>
EC092	Research on the Influence of Intelligent Recommendation Function on User Behavior in Highly Digitized Network Platforms
	<i>Yurui Huang, Xixi Wang</i>
EC103	Planning and Optimization of Ultra-short Wave Communication Network Resources in Sea-air Cooperative Operations
	<i>Cuicui Gao, Xinshe Qi, Guo Li, Na Wang, Xin Wang, Ruiping Huang</i>
EC111	A Novel Adaptive Backoff Algorithm Based on Active Nodes for Flying Ad Hoc Networks
	<i>Haifeng Zhu, Yang Gao, Na Lv</i>

Poster Session 2

EC112	Reentry Attitude Control of Reusable Launch Vehicle Based on Event-Triggered Sliding Mode Control
	<i>Baoyu Wen, Jiangshuai Huang, Yaoyao Tan, Tingting Gao</i>
EC115	Low-power Dolphin Sound-triggered Underwater Acoustic Recorder Based on Energy Spectrum and Cross-correlation Analysis
	<i>Jianhua Guo, Yi Zheng, Xiuhui Ni, Xiaodong Gong, Lei Kou, Xinjuan Li, Yongxiang Meng, Xiangchao Feng, Xinjie Yuan</i>
EC118	Design of Communication System of Underwater Hybrid Voice Communication System
	<i>Zhigui Lian, Yi Zheng, Xiaodong Gong, Xiuhui Ni, Lei Kou, Jinlong Gao, Yongxiang Meng, Xiangchao Feng</i>
EC119	An Improved Blockchain Consensus Protocol with Distributed Verifiable Delay Function
	<i>Mi Zhou, Xiaoming Lin, Ao Liu, Yiyong Che</i>
EC120	Improving the Quality of Service for B2B Customers with Digital Business Solutions
	<i>Maryana Ivanova, Olga Efimova, Boris Igolnikov, Georgii Gonsales Luchinin</i>
EC127	C-V2X Greedy Cooperative Caching and Response Algorithm
	<i>Tianwu Lin, Zhiwei Qiu, Zhexin Xu</i>
EC133	Tracking Dynamic System Based on Developing BLDC Motor Model
	<i>Ahmed Abdelrahim, Shi Liu, Nihad Abdalla</i>
EC134	Research on Distributed Material Vehicle Path Planning Based on AnyLogic
	<i>Yang Yang</i>
EC135	Research on Blockchain-Based Interactive Operation and Transaction Service Technology of Customer-side Flexible Resources
	<i>Chen Songsong, Gong Taorong, Yuan Jindou, Chen Ke, Gong Feixiang</i>
EC136	Research on the interaction mechanism of flexible demand resources
	<i>Chen Songsong, Gong Taorong, Yuan Jindou, Chen Ke, Gong Feixiang</i>
EC137	Research on optimization of electric vehicle charging facility layout based on space syntax
	<i>Mengyuan She, Kuanrong Li, Yong Gao</i>

Poster Session 3

EC138	Indoor Visible Light Positioning Method Based on TDOA and Fingerprint
	<i>Changyong Zhang, Dejian Li, Xi Feng, Lang Tan, Lixin Yang, Xiaokun Yang</i>
EC146	Stock Pricing Analysis between Bidders and Sellers Based on Stackelberg Game Theory
	<i>Yidan Su</i>
EC147	Research on the Transmission Optimization Schemes of User Side Power Consumption Information
	<i>Wu Zhongxing, Wang Chaoliang, Li Dan, Zhu Enguo, Zhu Zixu</i>
EC149	Prediction of visceral fat area of bioelectrical impedance based on ensemble learning
	<i>Lun Li, Wu Huang, Tao Zhang</i>
EC166	Sentiment Analysis Model Based on Text to Solve Work Stress Using Deep Learning
	<i>Tianao Gui</i>
EC178	Design of high temperature butterfly valve for diesel engine
	<i>Lin Li</i>
EC191	Research on Multi-feature Fusion for Support Vector Machine Image Classification Algorithm
	<i>Lixia Deng, Hongquan Li, Haiying Liu, Hui Zhang, Yang Zhao</i>
EC204	Hybrid consensus algorithm based on hierarchy authority
	<i>Yongqi Pan, Wei Wei, Yi Liu, Cheng Zhu</i>
EC216	An Improved ORB Algorithm for Feature Extraction and Homogenization Algorithm
	<i>Qiancheng Bei, Haiying Liu, Yuncheng Pei, Lixia Deng, Wenbin Gao</i>
EC221	Visual mapping of target tracing methods based on CiteSpace bibliometrics
	<i>Kai Yu</i>
EC245	Hyperspectral image classification based on improved few shot learning
	<i>Gaihua Wang, Xu Zheng, Lei Cheng, Xizhou Wan, Zhao Guo</i>

Oral Session A

EC001	A Load Balancing Algorithm Based on End-to-end Rerouting
	<i>Jin Guo, Mangui Liang, Zhiyu Liu</i>
EC002	Intelligent charging recommendation model based on collaborative filtering
	<i>Yingwei Zhao, Zhen Wang, Yunying Man, Hong Wen, Wen Han, Peiyao Wang</i>
EC005	Poker card recognition with computer vision methods
	<i>Xuewen Hu, Tao Yu, Kai Wan, Jie Yuan</i>
EC006	Research on QR code file transmission technology in complex environment
	<i>Zhang Heng, Hao Jianguo, Xiong Haiyan, Li Xiaolong, Yu Linfang, Zhu Junpeng</i>
EC007	Research of Mobility Models in Mobile Social Networks
	<i>Liwei Huang, Yulin Chen, Ying Zheng</i>
EC010	Mining the Distribution of Fishery Resources to Determine the Scope of Aquatic Ecological Protection
	<i>Song Xu, Zhengang Zhai, Bingtao Gao, Yunya Zhu, Li Zhang, Xusheng Fang</i>
EC011	A Survey of 5G Fusion Application Scenarios, Security Threats and Future Prospects in Machinery Industry
	<i>Li Jun, Zhang Yafei, Ren Jiadong</i>
EC012	Threat assessment of air defense in important maritime areas with missing feature data
	<i>Yan Wang, Mansi Li, Wenfei Zhao, Shan Xin, Zhou Lu</i>
EC014	Research on the Upgrading Method of Electronic Equipment
	<i>Xu Jiren, Liu Tongzan, Pei Kunpong, Wu Dongsheng, Zhao Xiaolan</i>
EC018	A D2D resource allocation method for IoT network
	<i>Changgui Hu, Chengdong Yang, Xiaotong Fang, Hui Zhi, Linsheng Hang</i>
EC020	A Multimodal Deep Network Model for Android Malware Detection Using Permission
	<i>Wei Gu</i>
EC022	The Boundary Problem of Stator Insulation Calculation of Large Hydrogenerator and Three-dimensional Finite Element Analysis and Exploration of Electric Field
	<i>Dongyi Li, Guiyin Xiao, Ziyong Dai, He Wang</i>
EC023	3D Model Simulation Analysis at the end of Large Hydrogenerator Stator Bar—Based on COMSOL Multiphysics Platform
	<i>Ziyong Dai</i>
EC026	Mass Heterogeneous Terminal Consensus and Management Model of Power Internet of Things Based on Blockchain
	<i>Boxiang Shang, Wei Zhai, Jianan Wang, Wei Liu, Yazhou Du, Yingzhuo Li</i>

EC027	LTE-M System Design and Performance Test of FAO Urban Rails
	<i>Yuyuan Pu, Hongli Zhao</i>
EC028	Research and Application of 5G Drone Inspection Technology Based on High Altitude and Alpine Areas
	<i>Shenlan Yang, Yi Liu, Wei Yang</i>

Oral Session B

EC030	Application of Lenze 9400 servo in dynamic splicing of bobbin paper
	<i>Hongqing Xu, Junmin Tian, Chengpeng Li, Qian Zhao, Xu Yang</i>
EC031	Key Technologies of Green Communication for 5G Mobile Network
	<i>Min Wang, Yulin Hao</i>
EC033	Trend Analysis of Aerospace Quality Management Based on Knowledge Graph
	<i>Pengwu Han, Jing Hou</i>
EC034	Flight Test Intelligent Mission Planning System Based on Big Data Platform
	<i>He Zeyuan, Wang Huahui, Li Nanbo</i>
EC037	Study on the operation time of FFT permutation algorithm
	<i>Zhou Jiang</i>
EC041	On Indian English Language Model for Continuous Speech Recognition
	<i>Xin Jin, Min Miao, Keliang Zhang, Zongbo Zhang</i>
EC042	Research on Radar Development and Application and Signal Processing Technology
	<i>Changan Zhu, Wenhua Hu, Hanshen Zhu, Liming Li</i>
EC044	Polarity Search of Ternary FPRM Circuit Based on DMMA Algorithm
	<i>Weichao Chen, Qiang Fu, Junwen Wei</i>
EC045	Research on RFID Indoor Positioning Algorithm Based on Attention
	<i>Jintao Tang, Lvqing Yang, Jiangsheng Zhao, Yishu Qiu, Yihui Deng, Shaoqin Shen</i>
EC046	The co-evolution propagation model of information and epidemic based on information maximizing influence
	<i>Yaqiong Wang, Liu Zhiqiang, Guanghui Yuan</i>
EC049	Attention-Based Bidirectional LSTM Network for Target Tracking
	<i>Xinyu Yang, Dianfeng Qiao</i>
EC050	Extraction Algorithm of Opinion Information Based on Double Embedding CMLA
	<i>Yueguo Zhang, Lili Dong, Lin Guo</i>

EC052	User-transformer Relationship Verification Method of Low Voltage Distribution Network Based on Voltage Correlaion Analysis
	<i>Jingming Zhao, Yongzhi Cai, Wenchong Guo, Jian Li</i>
EC058	Research on Library Information Security Based on the Innovation Assistant System of Wanfang (STADS)
	<i>Dongying Jiang, Sheng Ye, Xu Xia</i>
EC061	A supervisory and governance mechanism for power master-slave chain architecture
	<i>Xiaoyi Wang, Weiwei Qiu, Lei Zeng, Hongkai Wang, Yiyang Yao, Dong He</i>
EC063	Research on Cable Fire Detection and Early Warning Based on Deep Learning
	<i>Chenyong Li, Jie Chen, Libin Hu, Wei Zhang, Jingying Cao, Xiao Tan, Hongze Li</i>

Oral Session C

EC065	Construction of University Financial Information Platform under Cloud Computing Environment
	<i>Bingying Li</i>
EC066	A Dual-band SIR Monopole Conformal Antenna for NB-IoT and WLAN Application
	<i>Jiuhuai Lei, Shaoci Pan, Dao Yao, Guangli Chen</i>
EC067	Design of Communication Node Based on CAN Bus
	<i>Xuhao Lv, Ting Xu</i>
EC068	Research on Micro-Environmental Cold Air Flow Control in Data Center Cabinet Based on Computer Aid
	<i>Wei Jiang, Jun Yu</i>
EC071	Optimization of User Feature Extraction Algorithm Comprehensive Innovation System for Students in the Era of Computer Internet Big Data
	<i>Peng Zang</i>
EC076	Research and Verification Analysis on Early Warning Model through Support Vector Machine Algorithm
	<i>Li Guo, Yue Zhao</i>
EC079	A review of structural improvements and applications of miniaturized ultra-precision motors
	<i>Yunze Huang, Liqiang Wang, Xue Bai</i>
EC082	Research on VR Visual Design of Virtual Human Creation
	<i>Mengshan Yang, Yan Li, Jun Chen</i>

EC083	Research on Process Optimization Technology Based on Robot Automation (RPA)
	<i>Guo Huina</i>
EC086	Research and Optimazation on Evaluation Index Prediction Using Grey Neural Network and Big Data
	<i>Yuanhang Xiao, Xingyue Zhao, Yi Wu</i>
EC088	Optimization and design of slender jellyfish cutting machine structure and dynamics modeling and simulation analysis of transmission mechanism
	<i>Xuanming Liu, Shuai Guo, Xueheng Tao, Yiran Feng</i>
EC089	Pose Rectifying System Based on Bottom-up PAF Key Point Estimation Method
	<i>Tianyue Gao</i>
EC091	Research on the Influence of Vibration on Output Signal of Magnetolectric Speed Sensor
	<i>Cai Wei, Zhang Jue, Peng Weiyang, Xiao Jue, Che Yao</i>
EC094	Environmental Life Cycle Assessment of a Small Wind Farm
	<i>Chenglei Sun, Junjie Zhao, Lin Wang</i>
EC095	Research on Analog Circuit Fault Diagnosis Based on CBAM-CNN
	<i>Bin Gong, Xianjun Du</i>
EC097	MSCNN Based Remaining Useful Life Prediction for Bearings
	<i>Wenchao Jia, Xianjun Du</i>

Oral Session D

EC098	Analysis and Research of VAR Listed Monetary Fund Based on Big Data
	<i>Chenheng Xu</i>
EC099	Scenic area data analysis based on NLP and ridge regression
	<i>Chen Liu</i>
EC101	Signals Recognition of Underwater Acoustic Communication based on Artificial Neural Network and Signal Feature Extraction
	<i>Lei Kou, Xiaodong Gong, Yi Zheng, Xiuhui Ni, Xiangchao Feng, Fang Wang</i>
EC102	An Adaptive Image Encryption Scheme Using Fractal Dynamical System and DNA Operations
	<i>Ruisong Ye, Huiqing Huang</i>
EC110	3D Convolutional Attention Network for Automatically Extracting Ice Layers from Ice Sheet Radar Topological Sequences
	<i>Dan Liu, Yiheng Cai, Jingxian Yang, Jin Xie</i>

EC116	A Study on the Effectiveness of Online Learning Community Construction--Taking Advanced English Course as an Example
	<i>Yuanbing Duan, Jingzheng Wang</i>
EC122	Predicting Air Quality Index Using Deep Neural Networks
	<i>Sean Mc Grath, Eoin Garrigan, Liaoyuan Zeng</i>
EC126	Fast Ship Tracking Algorithm for Remote Sensing Video Based on Background Data Mining and Adaptive Selection
	<i>Xiangtian Xue, Changping Du, Yang Chen, Shijie Wang, Wenxue Yu, Pinzheng Zhang</i>
EC128	An Iterative Data Cleansing and Migration Framework for Research Information Systems
	<i>Baumgart Matthias, Römer Lisa, Lühr Matthias, Roschke Christian, Ritter Marc, Platte Benny</i>
EC131	Implementation of Numbered Head Together Learning Model for Improve Learning Achievement
	<i>Meiryani, Andreas Chang, Arfian Erma Zudana, Zaidi Mat Daud</i>
EC132	Android-Based Online Inventory Information System Design for Micro, Small and Medium Enterprises (MSMEs)
	<i>Meiryani, Zaidi Mat Daud, Jajat Sudrajat, Dedeh Maryani, Maya Syafriana Effendi</i>
EC140	Identification of Pork Meat Freshness Using Neural Networks
	<i>John A. Bacus</i>
EC141	A Calibration-Free Mismatch-Immune Quadrature-Clocked Voltage-Dependent Capacitance Measurement Method
	<i>Zhonghao Xu, Zheng Shi</i>
EC142	Enhancing a Telemedicine Platform with Global Navigation Satellite System Technology and Clustering Algorithms for Supporting Epidemiological Analysis
	<i>Silvia Panicacci, Gianluca Giuffrida, Massimiliano Donati, Alberto Lubrano, Martina Olivelli, Alessio Ruii, Luca Fanucci</i>
EC145	A Blockchain Voting Scheme Based on Data Security Separation
	<i>Guan Zhongxu, Zhai Jianhong, Xu Qian, Shi Jiyan, Zhang Jingrun</i>

Oral Session E

EC148	Modulation recognition of composite modulation signal based on two-fold digital receiver and goodness of fit test
	<i>Wang Lijun, Han Yu, Zhou Pan, Ge Hongfang, Shen Lei</i>
EC160	A Service Continuity Management Algorithm in LTE-V2X Assisted by MEC
	<i>Lin Guo, Na Liu, Xinlei Li, Hankai Yang, Wei Huang</i>

EC161	Real-Time Moving Target Detection System Based on FPGA
	<i>Hankai Yang, Huayu Wang, Wei Wei, Lin Guo, Kai Sun</i>
EC165	Research on the Method of Measuring Equipment Calibration Period Adjustment Based on Reaction Method
	<i>Ting Zhang, Sheng Li, Jixin Liu, Jianchao Xia, Chuyao He</i>
EC167	Design of Discrete Mathematics Network Teaching Platform Based on Wechat Public Platform
	<i>Zhang Zhiping, Wu Guangsheng, Zou Donglan</i>
EC170	Clothing Design Based on Computer Big Data Modeling and Programming
	<i>Yan Liu</i>
EC175	Computer Artificial Intelligence Technology in Improving the Quality of Environmental Design
	<i>Zeng Yuan, Liang Ding, Shi Yi</i>
EC177	Design and development of intelligent mobile robot
	<i>Lin Li</i>
EC180	Design and simulation analysis of ultrasonic extrusion transducer
	<i>Kong Fan, Jia Haili, Lu Xianguo, Ji Xiaoyuan, He Hailong</i>
EC181	Rotation Parameters Estimation of Space Target Based on Orbit Modeling and Levenberg-Marquardt Optimization
	<i>Kangping Li, Junling Wang, Kangping Li, Junling Wang</i>
EC182	Application of Simulation in the Teaching of Electronic Technology
	<i>Meilian Bao, Guofang Liu</i>
EC185	An integrated processing method and intelligent control system of <i>Hemerocallis citrina</i>
	<i>Liu Zixiao, Zhu Xiao, Zhang Xin, Li Ming, Hou Peihong, Zhang Qingyun, Wen Shuhong</i>
EC187	Review on Application of Wireless Sensor Network in Ship
	<i>Jiang Rifan, Yan Pitao</i>
EC188	Clothing Attribute Recognition with Semi-supervised Learning
	<i>Yilun Wang</i>
EC189	Research on Key Technology of Online Detection for Particleboard
	<i>Haoran Zhang, Yuzeng Wang, Chen Yu</i>

Oral Session F

EC193	Overview of UAV path planning algorithms
	<i>Lixia Deng, Huanyu Chen, Haiying Liu, Hui Zhang, Yang Zhao</i>
EC195	Path Planning of Mobile Robot Based on A* Algorithm
	<i>Bo Wang</i>
EC196	An Improved Particle Filter Based on Robustness Factor and Weight Optimization
	<i>Zhao Hui, Wang Lifan, Zhao Jiangtao, Nie Chen</i>
EC199	The application of meta-learning in the field of disease prediction and detection
	<i>Yujing Xia, Xiaoai Gu, Lin Liu, Lin Tang</i>
EC200	Discrimination of the geographical origin of rice by Belousov-Zhabotinski oscillation fingerprint—Discrimination of the geographical origin of rice
	<i>Min Sha, Liangcui Li, Xueting Fang, Chang Liu, Yi Gao</i>
EC201	The Application of Computer-Assisted Teaching in the Scientific Training of Sports Activities
	<i>Yang Zhang, Pan Sun, Juan Hu</i>
EC203	The Research and Application of the Improved Prediction Model for Big Data
	<i>Lili Jiang</i>
EC206	Mongolian Vowels in Non-initial Syllables and the Phonological Rules
	<i>Yin Bao</i>
EC207	Analysis of the structural parameters of the dust hood in a soda particle gas-solid jet removal plant
	<i>Jing Wang, Yingying Wei, Jinshi Lu</i>
EC209	Evaluation of the effect of upper limb rehabilitation robot on upper limb motor dysfunction after stroke
	<i>Chaoyu Sun, Zhichao Wang, Xiaofeng Wang, Yang Liu, Bin Hu, Zhichao Guo, Zhiqiang Cong, Zhongwei Yan, Shufeng Jiang</i>
EC210	Intelligent Pattern Matching Method Based on Visual Communication Design
	<i>Mengshan Yang, Feiyang Hu, Jun Chen</i>
EC211	Application of Text Mining Technologies Based on Indexing Model & Public Databases
	<i>Xiaoxue Fu</i>
EC212	Research on the Influence of the Internal Resistance of the Film Capacitor on the Characteristics of the Repulsion Mechanism
	<i>Sun Leiqiang, Zhuang Jinwu, Lv Zhiyong</i>

EC213	Multi-Focus Image Fusion Based on Non-Subsampled Shearlet Transform and Consistency Optimization
	<i>Xuejun Liu, Guanjun Wang, Fei Zhao</i>
EC218	Modeling and Analysis of Group Consumption Behavior of the Elderly under the Background of E-commerce
	<i>Zhang Haiteng, Li Longteng, Yang Lei, Li Silin, Zhu Kaili</i>

Oral Session G

EC220	Analysis of Heavy Wrecker Turntable Based on ANSYS Workbench
	<i>Yao Wang</i>
EC222	Design and Application of Graphical Shunting Based on C/S Architecture in Factory and Mining Enterprises
	<i>Tingquan Gao, Baodi Xiao, Lili Yue, Keke Rao</i>
EC225	Research on Equipment Joint Scheduling for Airport Bomb Disposal and Emergency Repair
	<i>Jin Chao, Cui Changfei, Teng Fei, Jiang Jin, Fu Chunxiao, Qu Tianxiang, Di Yuhua, Sheng Shouzhao</i>
EC227	The design and implementation of an automatic platform to screen chips
	<i>Huang Guihua, Tian Liwei, Zhang Tingting</i>
EC228	Research on Key Technologies of Shared Parking Space Based on Internet of Things
	<i>Tianfeng Zhou, Zexing Wu, Hongsen Huang</i>
EC230	Fault Diagnosis Method of Gearbox Based on Dual-Tree Complex Wavelet Packet Transform and IBA-BP
	<i>Pengyu Wang, Yunfei Ding</i>
EC232	Process Adaptability Research of Intelligent Upgrading for Traditional Container Terminals
	<i>Luxu Huang, Jiahai Zhou</i>
EC233	Design of an Intelligent Inspection System for Belt Conveyors in Ports
	<i>Panpan Zhang, Haobai Wen</i>
EC235	DHT Cluster Node Join Improvement and Load Balancing
	<i>Xie Jiagui, Li Zhiping, Gao Likun, Nie Fanjie</i>
EC236	High-dynamic adaptive geographic routing protocol based on topology for Smart Clusters
	<i>Huang Jinke, Zhao Xiaolin, Li Weilong</i>
EC240	Design of ECG Signal Detection Circuit Based on Pacing Pulse Suppression
	<i>Yu Li</i>

EC241	Improved few shot learning classification methods fused with attention mechanism
	<i>Gaihua Wang, Xu Zheng, Lei Cheng, Xizhou Wan, Zhao Guo</i>
EC246	A Hierarchical Approach for QoS-Aware Edge Service Scheduling and Composition
	<i>Dian Li, Weidong Wang, Yujian Kang</i>
EC251	Network security situation prediction based on optimized BP neural network
	<i>Yunfeng Zhang, Cheng He, Han Wu</i>
EC252	Study on the Chinese Vessel Crew Boom Index Model
	<i>Zilai Cheng, Yongming Zhang</i>