CONFERENCE PROGRAM

2021 IEEE Conference on Telecommunications, Optics and Computer Science (TOCS 2021)

December 9-11, 2021 Shenyang, China www.ictocs.com

Sponsors



Program

December 9, 2021 10:00-17:00		Registration		
	Poster Presentation Session			
December 10-11, 2021	Poster Session 1, 2 08:00-18:00 http://www.ictocs.com/posters.html			
Poster Session 1		14, CS222, CS229, CS235, CS237, CS246, CS254 73, CS280, CS290, CS299, CS309, CS317, CS328 CS346, CS356, CS365		
Poster Session 2	CS377, CS385, CS392, CS402, CS407, CS419, CS429, CS437 CS460, CS472, CS482, CS489, CS502, CS514, CS522, CS534 CS543, CS560, CS581			
	Oral Pres	sentation Session		
D 1 10 2021	08:00-12:00	Session A, Session B, Session C		
December 10, 2021	14:00-18:00	Session D, Session E, Session F		
December 11, 2021	08:00-12:00	Session G, Session H, Session I		
December 11, 2021	14:00-18:00	Session J, Session K, Session L		
Session A Meeting ID: 872-421-793	CS200, CS202, CS206, CS207, CS209, CS210, CS213, CS216 CS217, CS218, CS224, CS225, CS227, CS228, CS230, CS232			
Session B Meeting ID: 701-474-342	CS233, CS236, CS238, CS239, CS241, CS242, CS243, CS244 CS245, CS251, CS252, CS255, CS258, CS259, CS260, CS261			
Session C Meeting ID: 569-392-737	Meeting ID: CS203, CS204, CS270, CS273, CS270, CS277, CS			
Session D Meeting ID: 454-845-628	CS296, CS298, CS300, CS301, CS303, CS305, CS306, CS307 CS311, CS312, CS314, CS315, CS316, CS322, CS323, CS325			
Session E Meeting ID: 886-827-126 CS326, CS327, CS329, CS341, CS344, CS345, CS350, CS352, CS354, CS355, CS358, CS359, CS360, CS363, CS354, CS355, CS358, CS359, CS360, CS363, CS352, CS354, CS355, CS358, CS359, CS360, CS363, CS364, CS355, CS358, CS359, CS360, CS363, CS364, CS355, CS358, CS359, CS360, CS363, CS364, CS355, CS358, CS359, CS360, CS364, CS				

Session F Meeting ID: 401-314-477	CS367, CS369, CS370, CS372, CS373, CS376, CS378, CS380 CS381, CS383, CS384, CS387, CS389, CS390, CS395, CS396
Session G Meeting ID: 667-792-245	CS399, CS400, CS403, CS404, CS406, CS410, CS411, CS415 CS416, CS418, CS421, CS422, CS424, CS425, CS426, CS432
Session H Meeting ID: 513-498-727	CS433, CS436, CS440, CS443, CS445, CS449, CS451, CS454 CS455, CS457, CS458, CS462, CS463, CS465, CS466, CS468
Session I Meeting ID: 233-605-456	CS470, CS471, CS475, CS478, CS479, CS480, CS483, CS486 CS487, CS491, CS493, CS494, CS496, CS498, CS499, CS500
Session J Meeting ID: 658-926-891	CS501, CS503, CS505, CS506, CS508, CS510, CS512, CS515 CS517, CS518, CS520, CS521, CS526, CS527, CS529, CS530
Session K Meeting ID: 118-834-828	CS532, CS533, CS535, CS539, CS540, CS542, CS550, CS552 CS553, CS555, CS556, CS558, CS563, CS564, CS568, CS569
Session L Meeting ID: 570-990-437	CS570, CS573, CS575, CS578, CS579, CS582, CS583, CS586 CS587, CS590, CS593, CS595, CS597, CS598

Session A

CS200	An Improved Two-Step Weighted Least Squares Aided UWB High- Precision Indoor Positioning System for Moving Targets
	Qikun Ma, Peichang Zhang, Gongbin Qian, Shuo Feng
CS202	Design and Realization of Distributed Control System of Intelligent Music Fountain
	Ling Xie, Zhaofeng Guo, Hongying Liu, Jun Zhu
CS206	Malicious HTTPS Traffic Classification Algorithm Based on DCGAN_1D-CNN
	Wen Luo, Zhaohui Liu, Rui Zhao, Jianhua Chen, Xin Deng
CS207	Arrhythmia Recognition Based on Multimodal Neural Network
C3207	Yanan Wang, Chunming Li
CS209	Fire Detection of Satellite Remote Sensing Images Based on VGG Ensemble Classifier
	Yang Yang, Zhihui Li, Jing Zhang
CS210	Design of Chinese named entity recognition algorithm based on BiLSTM-CRF model
	Luan Di, Xie Ling, Wang Guangwen
CS213	Joint Antenna Selection and Intelligent Reflecting Surface Aided MISO Downlink Networks
C5213	Shang Xia, Peichang Zhang, Zhengming Jiang, Li Li, Xiaojun Wang, Shuo Feng
00016	A Review of Field Text Analysis
CS216	Zhuolun Li, Fei Kang, Pu Yu, Hui Shu
CS217	Design and Implementation of Communication Interface for Magnetic Field Monitoring Probe
	Shi Xiao, Kaiyi Tang, Jie Ren
CS218	Research on Statistical Characteristics of High-speed Maglev System Wireless Channel Based on Big Data
	Shanqiang Fu, ianjun Xiao
CS224	Time-domain Data Analysis of Maglev System EMI Based on ARIMA Model
	Donghua Wu, Jinbao Zhang
CS225	A Cloud Resource Prediction and Migration Method for Container Scheduling
	Siyuan Zheng, Fenfen Huang, Chen Li, Haobin Wang

CS227	Prediction of Linear B-cell Epitopes using Manifold Adaptive Experimental Design and Random Forest Algorithm
	Hongguang Yang, Yunfei Zhou, Bin Cheng
CS228	Research on Task Decomposition of Substation Inspection Robot Based on Improved-ISODATA Algorithm
	Liqiang Zhong, Juanjuan Qu
CS230	Design of target positioning system for monocular vision manipulator based on neural network
	Jiongkun Yang, Yueming Chen, Yuxin Liu, Guosen Xian, Qi Yan, Xi'ai Chen
CS232	Performance Analysis on BER of IR-UWB under Maglev System
	Shi Xiao, Jinbao Zhang

Session B

CS233	Efficient Activation and Deactivation in MR-DC
	Jincan Xin, Hua Zhang, Sen Xu, Shangkun Xiong
CS236	Working Performance Analysis on Polar Navigation of Semi-analytical Inertial Navigation System
	Wangyang Zhao, Guangtuo Zhang, Wei Liu, Yuanming Wang
CS238	Regional Rural Economic Forecasting Based on Single Exponential Smoothing Model with Outlier points
	Long Jing
CS239	Research and Deployment of IPv4/IPv6 Dual Stack Network in Large- scale Campus Network
	Shan Jing, Lei Guo, Qian Wang, Enlong Li, Chuan Zhao, Bin Xiao
CS241	A Review of Storage Performance Test Platform
CS241	Chong Wu
CS242	Parameter Analysis of Multi-point Mooring System under Extreme Sea Conditions
	Lin Shanying, Hu Lide, Li Wenhua, Ke Sicheng, Ge Yangyuan
CC242	Transport Layer Planning and Design Based on Metro Area Network
CS243	Lei Hu
00244	5G+AR Substation Operation and Maintenance Technology
CS244	Kai Wang, Yiqing Zhao, Qiliang Qian, Zhijun Zhao, Ruonan Wang

CS245	On-Line Defect Elimination Technology of High Voltage Disconnector Based on Laser Cleaning
	Bo Li, Yuanpeng Zhang, Xing Wang, Guixing Cui, Li Xi
CS251	Development of a High-Precision Filling Electromagnetic Flowmeter Based on the MODBUS Protocol
	Zhenyan Ma, Jia Ren, Yongzhong Zhang, Aditya Singh, Bin Li
CS252	Performance Evaluation of Enterprise Intelligent Manufacturing Based on Balanced Score Card
	Yansong Cai
CS255	Research on Search Deployment Method of Flight State Network Based on CPSO Algorithm
	Zhiyong Hu, Yarong Wu, Xusheng Gan, Yufeng Wei
CS258	Analysis of platinum resistance temperature sensor circuit based on CDIO
	Yunpeng Hu, Yijun Fan, Miao Zhang
CS259	Project-Driven Shift Register Realizes Cyclic Color Light Control
CS259	Ying Chen, Miao Zhang, Liyun Zhang
CS260	Research on the Reform of "Electrical Engineering and Electronics" Based on the CDIO Education Model
	Miao Zhang, Xuejing Shen, Deshan Wang
CS261	Research on Transistor Amplifier Circuit Based on Project
C5201	Jihong Li, Miao Zhang, Yijun Fan

Session C

CS265	The Practice and Exploration of Scratch Programming Instruction in Elementary School Based on Game Design
	Yang Huansong, Wu Jia'en, Shen Mengting
CS268	Loss Reduction Control Strategy of on-Load Capacity-Adjusting Transformer Based on Load Forecast
	Jichao Li, Rong Cao, Wenbo Hao, Mingyu Xu, Peng Jiang, Heng Hu, Feng Zhou
CS270	Secure Data Sharing Algorithm for Privacy Protection of Industrial Internet
	Jingyuan Li, Dongyu Yang, Ke Zhang
CS272	Research on Optimization Model of Cooperative Anti-jamming Capability of UAV and Manned Vehicle Hybrid Formation
	Huanbin Wang, Yangjun Gao

CS275	Toward Efficient CNN Compression via Coordinate Descent Structure Search
	Yuxin Zhang, Rongrong Ji
CS276	Elliptic Curve Cryptography Algorithm Against Energy Attack
CS2/0	Jianbo Yao, Chaoqiong Yan, Tao Zhang
CCOTT	Hardware descriptions code completion based on a pre-training model
CS277	Xinyu Liang
CC270	An Improved PVAR-GMM Model Based on Inter-Provincial Panel Data
CS278	Jiye Wang, Minnan Wang
CS281	Exploring the Spatiotemporal Factors of Ridesplitting Demand Based on the Geographically and Temporally Weighted Regression
	Zilin Chen, Haiyang Yu, Runkun Liu
	Design of High-Speed Driver Circuits Based on Thick Film Technology
CS284	Zhe Li, Dongbin Liu, Wei Li, Jingtao Huang, Xiaopeng Wang, Zhiliang Gao, Yue Zhao, Yanfeng Liu, Hang Zhang, Zhenya Sun
CS285	The Layout of VLC Light Source for Both Lighting and Communication Reliability
	Li Zhao, Yueyu Zhang, Huanjie He
CS287	Research on the Synergy of Subsystem Based on Computer and Network: A Case Study of Cultural Industry and Financial Innovation
	Lu Bian, Chenxi Li, Zhaohui Liu, Chen Yang
CS288	Research on Cloud End-User Behavior Trust Evaluation Model Based on Sliding Window
32200	Liangshuang Han, Xuejun Yu
CS291	Application of Decision Tree Classification Method in E-Banking Customer Management
· · · · · ·	Ruitao Zhou, Cui Li, Xiaohui Wang
CS292	Design and Implementation of Family Financial Risk Prevention System Based on TRIZ and Wireless Sensor Network
	Moli Xu
CCOOF	Application of GPU Virtualization Technology in Big Data Processing
CS295	Yingzi Wang, Xiangyi Fang, Jue Hou, Lei Wang
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Session D

CS296	The Application of Multimedia Technology in Video after Effects Production
	Siqi Li, Haiyan Li
CS298	Design and Implementation of Power Communication Network 3D Simulation Training System Based on Unity3D
	Xue Hao, Lizhuo Geng, Lu Liu, Feng Gao, Jianming He, Qi Gao
CS300	Information Security Risk and Solution of Computer Network under Big Data Background
	Zhen Wang
CS301	Railway Signal Intelligent Monitoring System Based on Data Mining
C5301	Jianjun Wu
CS303	Application of Data Mining Technology in Financial Risk Management
CSSUS	Yan Zhang
CS305	Rural Developing Level Clustering Based on KMEANS From Electricity Perspective
C5303	Peng Li, Huixuan Li, Shiqian Wang, Wenjing Zu, Hongkai Zhang, Jianjun Wang
CS306	A Study on CDIO -based Project of Smart Services in Hotel and Hospitality Industries-Driven Learning Approach for IoT Engineering and Design
	Zhenghua Xin, Xiaoyong Yu, Xueli Wang, Keke Wang, Wei Zhou
CS307	Design of Industrial Wireless Transmission System Based on ZigBee
CSSUI	Yujie Wei, Yanghui Liu
CS311	Application of Shape Feature Matching Based on Fourier Descriptor in Infrared Wake Detection of Underwater Vehicle
	Xiao Han, Yating Chen, Haoxian Wang
CS312	A Noisy Image Segmentation Method Based on Improved Active Contour Model
	Yinlong Wang, Zhongchun Wang, Zhiying Xie
CS314	Text Classification Model Based on Multi-head self-attention mechanism and BiGRU
C5314	Fang Fang, Xuegang Hu, Jianhua Shu, Pin Wang, Tongping Shen, Fangfang Li
CS315	Design and Application of Digital Resource Sharing Talent Training Program System for Big Data Technology
	Kanghua Peng, Jincheng Shi

CS316	Research and Design of Laser Glass Bottle Cutting Machine with Rotary Table Multistation
	Vareine-daricka Mananga, Qian Zhou, Yunzheng Zhang, Mingyu Huang
CS222	Darknet Web URL Detection without URL Content Leakage
CS322	Jie Xu, Haoliang Lan
CS323	Calculation and Analysis of Ship Dock Block Layout and Key Points of Inspection based on Computer Simulation
	Lu Han, Guoliang Sun, Hongwen Zuo
CS325	Research on the Key Agreement Scheme between Car and Cloud Server Based on Certificateless
	Pengcheng Sun, Fei Li

Session E

CS326	Design of Intelligent Logistics Car Based on MCU
	Yang Gong, Pan Zhang
CS327	Construction and Research of Recommendation Model Based on Deep Learning
C3321	Feng Liu, Weiwei Guo, Ying Wang, Yingjie Song, Yu Sun, Shiguang Sun, Yongxing Sun, Xiaoyan Li
CS329	On Prediction Method of Traffic Risks with the Bayesian Network in Smart Transportation
	Jun Zhang, Danjiang Wu, Huaju Song, Yuanshu Zhu, Yuwen Qian
CS341	Design of Error Correction Reflection Signal Based on IRS for A New Spatial Modulation
	Tongkuai Zhang, Liu Yang, Yi Wang
CS344	An Algorithm of Data Classification Based on PCA and K-Means++
C8344	Ruirui Huang, Qianshuai Cheng, Zhengquan Chen
CS345	An Automatic Information Extraction Method for the Combustion Flame of Chain Furnace Based on U-net
	Changqing Cai, Peisen Zhang, Jianwen Tan, Hei Liu
CS350	Research of Security of 5G-enabled Industrial Internet and Its Application
	Jie Yuan, Feng Zhang, Le Yu, Hongyang Zhang, Yongsheng Sang
CS351	Study on Computer Numerical Simulation of Supporting Parameters in Super-large Section Metro Station
	Bolin Jiang, Shanshan Wu, Xiangbing Li

CS352	A Silicon-Based MEMS Transducer with Enhanced Frame Rate for Dynamic Infrared Scene Projection
	Lang Zhou, Tuo Li, Zhuo Li, Kai Liu, Hongtao Man, Qifeng Li
CS354	Analysis of Different Inversion Algorithms for Determination of Nanoparticles by Photon Correlation Spectroscopy
	Zengbiao Chen, Liangzhong Lin, Hongwen Yu, Zhenbiao Yu
CS355	Kinematics Analysis of 6-PUS Parallel Mechanism Based on Python and ADAMS
	Long Chen, Yong Bu, Zhaocai Du
CS358	Real-time Carbon Flow Algorithm of Electrical Power Systems Based on Network Power Decomposition
C5356	Zhaoyang Yan, Ting Zhou, Hao Zhang, Shang Dai, Xiao Li, Chaoqun Wang
CS359	Optimal Method of Distribution Network Maintenance Plan Considering Load Transfer and Network Reconfiguration
	Changan Zhang, Xiaorong Wang, Ting Wang, Wei Zhang, Yang Yang
CS360	A Survey of Energy-Efficient Methods in Data Center Networks Based on Software Defined Network
	Tianyu Niu, Honghui Li
00273	Design and Implementation of Analysis System for Popular Scenic Spots
CS363	Jinlin Ren, Yang Gong
CS364	A Millimeter Wave Radar Target Detection Method in K-distributed Clutter Background
	Chonghui Xu, Yuezhou Li, Nan Hu

Session F

CS367	Optimal Ordering and Transportation Model Design Based on BP Neural Network and Entropy Weight TOPSIS
	Zeyu Zhu, Jiawei Pan, Xiaolin Liu
CS369	Static Reconstruction Method of NSGA-II Distribution Network Based on Basic Ring
	Guanzhong Xu, Xinglin Yang
CS370	Application of PSO-BP Neural Network in NTP for Diesel Engine Denitration Experiment
	Ning Chen, Zairen Chen

CS372	Multi-modal Sensor Fusion Method Based on Kalman Filter
	Zongren Liu, Jiankai Qin, Zongren Liu
CS373	Optimization Research on Hybrid Control of Composite Three-level LLC Based on PLECS
	Huimin Qiu, Fanghui Zhang
CS376	Target Tracking in Hyperspectral Remote Sensing Image Based on SS-KCF
	Ning Zhang, Xiaoning Hu, Xinzhong Zhu, Jie Zhang, Wei Song, Lina Liu
CS378	Fusion Deep Learning and Machine Learning for Multi-source Heterogeneous Military Entity Recognition
	Hui Li, Lin Yu, Ming Lyu, Yuwen Qian
CS380	Few-shot Learning Named Entity Recognition of Pressure Sensor Patent Text Based on MLM
	Yue Deng, Honghui Li, Xueliang Fu
CS381	Machine Reading Comprehension of High-Tech Industry Policies: A New Dataset and Chinese Pre-Trained Language Model
	Changchang Zeng, Shaobo Li, Bin Chen
CS383	Anomaly Behavior Detection for the Web Application Based on LSTM
C3363	Hongxin Ma, Chunbo Wang, Hui Qi
CS384	Research on Security Protection Method of Industrial Control Boundary Network
	Deng Zhang, Junkai Wang
CS387	The Improvement of Corporate Performance Based on the Application of Big Data Technology
	Huijuan Lin, Junying Li, Xiaoyan Chen, Shuqin Chen
CS389	Research on Internet of Vehicles Attack Prediction Based on Federated Learning
	Liang Tang, Fei Li, Jiatian Li
CS300	Research on Intrusion Detection Model Based on Bagged Tree
CS390	Pengtian Chen, Fei Li, Jiatian Li
CS395	Multi-time Scale Collaborative Scheduling Strategy of Distributed Energy Systems for Energy Internet
	Zijun Yang, Jiangping Jing, Fujv Zhou
CS396	Construction of Chinese Medical Text Segmentation Model Based on Bi-GRU Algorithm
~	Fengyang Yu, Feng Yuan, Shouqiang Chen

Session G

CS399	Travel route planning through simulated annealing algorithm and model data
	Yuhan Lin, Shilong Teng, Yutong Fan, Kechao Xu, Siyuan Huo, Fangzheng Lu, Tiandong Su, Yan An, Hao Zong, Hanxiao Wang
CS400	Application of harmonic current on-line monitoring system in cable terminal fault
	Li Dehai, Han Bing, Zhang Dewen, Shen Yubo, Shang Fang, Ma Haifeng
CS403	Design of smart synthetic speech answer-sheet system based on deep neural network and CR-DNN
	Qingzhu Wu, Shaowei Xiong, Zhengyu Zhu
CC404	Feature extraction of ophthalmic image based on machine learning
CS404	Huan Xu
CS406	Intelligent Analysis System of Movie Reviews Using Deep Learning and Convolutional Neural Networks
	Dingyi Yu
CS410	Research on literature cognitive strategy model by big data and statistical analysis
	Wang Qian, Lin Mingzu
CS411	Simulation analysis and power flow calculation of energy saving and consumption reduction in static pressure hydropower
	Xingchen Mu
CS415	Analysis and Research on Division Method of Climatic Area and Load Characteristics of Smart Metering Equipment
	Dawei Zhang, Peigang Shen, Juan Shen, Hui Jia
CS416	Research and Application of Computer Big Data Technology in Smart Mental Health Information Tracking System
	Yan Yuan, Zhang Qian
CS418	Computational analysis of user big data of electric vehicles based on SVM and dynamic planning
	Yang Jing, Zhang Fan, Chen Ziyi
CS421	Research and Design of Smart Scoring System Using Cloud Computing and Big Data Analysis
	Xie Ning
CS422	Application of Computer Deep Learning Technology in Stochastic Resonance Image Enhancement
	Yalin Gong, Hongying Zhang

CS424	Failure time prediction for small sample devices based on degradation data and calculation
	Yiwei Jiang
CS425	Big data analysis and mathematical modeling for China's personal income and population growth
	Jinchen Song, Jianing Fu, Yuxin Tian
CS426	A Single Precision Floating Point Multiplier for Machine Learning Hardware Acceleration
	Hao Li
CS432	Research on Accounting Information Disclosure and Intelligent Data Analysis Based on Network Environment
	Qingfang He

Session H

CS433	Research and Design of Real-Time Dynamic Adaptation System for Web Applications on Mobile Phone
	Geng Yibo
CS436	Research on Data Visualization Information Processing Based on Computer Big Data
	Liang Wang
CS440	Signature system based on RSA algorithm and its algorithm optimization
	Yuan Qingmin, Wang Sinan
CS443	Computer Prediction Model of the Election Result through BP Neural Network and Principal Component Analysis
	Xiaowen Lin, Shihao Guo, Zhangteng Ma
CS445	Discussion on Principle of FLIC-FLUENT Combined Computer Intelligent Simulation Technology for Solid Waste Incinerator
	Hongze Zhang
CS449	Using Stata statistical software and computer linear regression to analyze the factors affecting the wastewater treatment in Hubei Province
	Chen Li, Shichun Tan
CS451	Computer Intelligent Assessment Method of Curriculum Information System Using AHP-FCE Model
	Xu Haixiang, Li Zheyu, Wang Zhongzheng
aa := :	Research on Financial Analysis Based on Nonlinear Dynamics
CS454	Zihao Deng

CS455	Application of Big Data and Cloud Computing in Water Conservancy Information System Digitization
	Yuan Qingmin, Cui Yuanjing
CS457	Research on intelligent link prediction model of friend influence based on big data and complex network
	Li Shugang, Zang Yuning
CS458	Research on Image Semantic Segmentation Model Based on Bidirectional Recursive Double Branch Network
	Zhuang Yufeng, Wen Min
CS462	Housing Price Mathematical Prediction Method through Big Data Analysis and Improved Linear Regression Model
	Xinyu Yang, Zesheng Yin, Jiayi Li
CS463	Research on Node Anomaly Detection Method in Smart Grid by Beta Distribution Theory
	Wang Wenlong, Liang Jianquan
CS465	Application of Blockchain Technology and Cloud Computing in Digital Finance
	Wen Xin
	Analysis of a 220kV current transformer deflagration accident
CS466	Wang Chao, Qu Limin, Zhang Jian, Liang Jianquan, Gong Mingchen, Wang Mengchun, Zhang Peng
CS468	A Study of Intelligent Rehabilitation Robot Imitation of Human Behavior Based on Kinect
	Xing Pan, Quan Liu, Fengkai Luan, Kun Chen, Qingsong Ai

Session I

CS470	Big data analysis of the benefits calculation in the electric power smart economical operation
	Jinmin Cheng, Chao Xu, Fei Dou, Weiyuan Wang, Zhendong Wan, Kai Xia
CS471	Research on Blockchain Smart Contract Optimization for Power Business Scenarios
	Zhuofan Wu, Wenhao Xue, Xinnan Wang
CS475	Research on New Energy Vehicle Customer Intelligent Mining Model Based on Principal Component Analysis and Goal Planning Algorithm
	Zhang Fan, Wan Tiantian, Yang Jing

CS478	Research and Calculation on Emergency Rescue Reliability Model through Entropy Weight-BP Neural Network
	Mi Xin, Cao Qinggui, Li Dan, Wang Junqing
CS479	Data Analysis and Soybean Price Intelligent Prediction Model Based on LSTM Neural Network
	Zhang Yu
CS480	Design and Research of Braille Machine Control System Supported by Human-Computer Interaction
	Zhang Daizhi, Li Zeqi, Zhao Tianxiang, Wei Zhiyuan, Shi Yaochen
CS483	Design and simulation of airbag flexible pressure sensor
C3403	Dachuan Li
CS486	Research on Motion Control of Smart Underwater Stirring Robot
C5460	Fangjian Ning
CS487	Research on the Impact of Big Data on News Communication in Mobile Internet Terminal
	Yunping Guo
CS491	Evaluation Model of Music Quantization Based on Data Mining Analysis and Algorithm Optimization
	He Yichu, Peng Cheng, Xie Yiyi, Qing Kuangxuan
CS493	The Application of Digital Simulation Technology in Optimization of Pipeline Assembly for the Core Module of Space Station
	Zhao Jinlong, Liu Tonghui, Wang Pengfei
CS494	Disaster Information Digitization for Intelligent Forecast in Tarim River Basin Using Multiplicative Seasonal ARIMA Model
	Baoxin Chen, Kan Chen, Xi Wang, Xu Wang
CS496	Intelligent Control Application of Unity + Playmaker Based on Physical Simulation Trolley Experiment
	Qi Bingchao
CS498	Computer Assisted Consumer Behavior Modeling through Big Data and Internet Technology
	Shunfeng Guan, Chen Zhao
CS499	Research of Cryogenic Launch Vehicle Unattended Technology
U3477	Zhen Guo, Tingting Gao, Dalin Xiang, Jing Song, Wei Guo
CS500	Research on Preparation of C4 Olefins Based on Multiple Regression Analysis and Genetic Algorithm Optimization
	Li Xiaokang, Tang Xin, Yuan Yukun
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Session J

CS501	Heterogeneous image matching based on phase consistency
	Mengyang Liu, Xiaodong Mu, Xiangchen He
CS503	Electric vehicle charging system pressure control based on fuzzy neural network PID control
	Zhaopeng Li, Jie Pang, Chuyuan Xu, Chengcai Zhang
CS505	Statistical Analysis and Big Data Based Intelligent Fashion Prediction Model
	Zhendi Wang, Xiaogang Liu
CS506	Analysis of Energy Supply and Layout Optimization Mathematical Model of New Energy Conversion Power Station under Carbon Neutralization
	Yijing Wang, Mengmeng Du, Yifan Li, Lin Ouyang
CS508	The Intelligent Management System and Information Digitization of Contaminated Site Remediation
	Xu Li, Hanwen Guo, Tianchu Shu, Binjie Bai, Xiaoqin Nie
CS510	Research on smart amphibious hexapod robots
C3510	Minhao Yang, Xiaoqing Zhu
CS512	Role of underlying diffusion mechanism and information digitization in a global network of streaming music
	Xinjie Lyu
CS515	Data Analysis of Risk Early Warning Index Model Using Computer Dynamic Forecast Technology
	Jiaqi Zhang, Yuxuan Gong
CS517	Research on cold chain distribution optimal path considering congestion coefficient and ant colony algorithm
	Yingteng Gao, Zhigao Liao
CS518	Research on Muscle Fatigue Grade and Surface EMG signal Based on DP_PSO_SVR Model
	Zhang Fangteng, Liu Qijun
CS520	Research on Placement of Digital Shortwave Service Quality Test Receiver and Measurement Extrapolation Method
	Zhou Jian, Li Shanshan
CS521	Analysis on flexibility and peak shaving capacity of 330MW subcritical unit
	Jun Liu, Yan Xu, Lingkai Zhu, Wei Zheng, Zhishuang Zhang
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CS526	Raw material form recognition based on Tesseract-OCR
	Haodong Fang, Min Bao
CS527	Kinematic to kinematic positioning method based on sliding-window epoch-difference
	Wu Qian, Cai Chenglin, Zhang Zhiqiang, Duan Changfeng, Jia Wei, Li Wei
CS529	Command and Control System in Intelligentized Warfare
CS529	Xin Chen, Longxiang Li, Wei Zhang, Liwei Li
CS530	Named entity recognition in material field based on Bert -Bilstm-Attention-CRF
	Xiang Gao, Qichen Li

Session K

CS532	Continuity Path Planning for 3D Printed Lightweight Infill Structures
	Dongxiao Wang, Haolei Wang, Yuqing Wang
CS533	Research on Service Monitoring System of Intelligent Connected Vehicle Based on Cloud Platform
	Yanguang Wang, Yuan Zhao
CS535	Smart Contract Model of Sci-Tech Services Transaction Based on Consortium Blockchain
CSSSS	Bin Zhang, Wenlong Feng, Mengxing Huang, Siling Feng, Xiandong Zheng
CS539	Research and application of 3D visualization technology of borehole data based on WebGL
C3539	Zhaoyang Ma, Yi Ding, Peng Yue, Lihai Zhang, Yinping Liang, Yongpeng Deng
CC5.40	Research on Parametric Modeling of Type ω Spring Clip Based on NX
CS540	Ming Zhou, Cuixia Yang, Yan Zhu, Liang Guo
CS542	Design of automotive power battery replacement device based on patent analysis
	Jinhao Li
CS550	Some Experimental Factors Affecting the Insulation Life of Polypropylene Films for Power Capacitors
	Weiqiang Sun
CS552	Frequency analysis of current source inductively coupled power transmission circuit based on mathematical model algorithm
	Jiaming Liu, Chunyan Liu

CS553	Design of electric drive cooperative control system based on graph convolution neural network
	Zhaosheng Teng
CS555	Development and Application of Virtual Simulation Practice Teaching Platform for Cell Culture Based on Intelligent Control System
	Chun Xie
CS556	Research on Intelligent Evaluation of English Diagnosis System Based on Fuzzy K-means Clustering
	Liufang Yi
CS558	Landscape image segmentation and beauty evaluation based on convolution neural network
	Juanjuan Jiang, Kefeng Dai
CS563	Construction of immersive scene roaming system of exhibition hall based on virtual reality technology
	Siyao Guo, Yi Fu
CS564	Research on Optimal Layout of Sensors in Civil Engineering Structure Based on GIS System
	Zhiyu Sha
CS568	Research on Cooperative Prototype System of Animation Product Design Based on Motion Capture Data
	Ji Sun, Mansheng Zou
CS569	Research on Tourism Management Decision Support System Based on IOT Technology
	Shan Wang, Zhenzhen Yu

Session L

CS570	SSLP-Based Micro-Application Terminal Access Authority Authentication Method
İ	Fengjuan Ma, Dawei Song
CS573	Two-dimensional animation interactive demonstration teaching system based on multimedia technologyartificial intelligence and information technology
	Xun Zhu, Fengjuan Ma, Zhigang Wang
CS575	Construction of Information System of Ideology Education for College Students Based on Association Rules Mining
	Di He

CS578	Machine vision-based design of human-machine interactive waste bins for shopping mall areas
	Daiwei Li, Hanyang Liu, Xuanyu Xiao, Mingyu He
CS579	Research on Intelligent Supply Chain Mode of Business Big Data Technology Based on Machine Learning
	Yanan Li
CS582	Research on Modeling and Control Method of Medium Temperature Solid Oxide Fuel Cell System Based on Virtual Instrument
	Hongxia Xu, Tong Zhang, Xia Liu, Qian Qu
CS583	Research on interactive design of smart home supplies based on visual perception intensity
	Yana You, Xuefeng Yi
CS586	Research on the construction of College English mobile translation practice platform based on Corpus
	Qiwei Yuan
CS587	Data management and sharing mechanism of e-commerce industry based on association rule mining in big data era
	Guijuan Shan
CS590	Research on collaborative e-business measurement model based on e-business law and data mining
	Lei Zhao, Hongbo Chen
CS593	Research on Logo Design of New Energy Vehicle Friend Club Based on Computer 3D Image Processing Technology in Digital Era
	Xiuru Jian, Guoqiang An
CS595	Data Integrity Verification of Accounting Informatization Cloud Based on Stata in Sharing Mode
	Dekun Liu
CS597	Design and Application of Business English Sand Table Simulation Training Course in Secondary Vocational School Based on Machine Learning
	Jie Song
CS598	Design and Implementation of Financial System of Supply Chain Based on Blockchain
	Ruixin Wang

Poster Session 1

CS203	Text-to-image Generation based on Spatial-Channel Attention and Semantic Redescription
	Guangxi Chen, Qiaochu Li, Min Tang
CS214	Framework of Special Equipment Accident Investigation Decision Support System Based on IDSS Technology
	Jun Qiu, Liangsheng Chen, Leijing Yang
CS222	The Application of Deep Learning in Wireless Communications of Maglev System
	Jianying Liang, Dan Zhang
CS229	Task Pre-migration Strategy in Mobile Edge Computing Environment
CS229	Zhang Zhihao, Ju Shuangshuang, Song Wei
CS235	Research and application of virtual reality technology in hydropower station production
	Wenhui Liu
CCCAT	BERT Named Entity Recognition with Self-attention Mechanism
CS237	Xinyi Li, Ying Qian, Liang Dou
CS246	Remote Real-Time Interaction Technology of Wind Power Based on AR
CS246	Yong Du, Baoyu Xie, Mingxiang Ba, Zunyan Zhang
CS254	An ELT Signal Monitoring and Alarm System
CS254	Ao Liu, Yi Zhang, Xiaomeng Li, Hongli Zhang, Long He
C5244	Study on Spatial Angular Measure Method of Spatial 4-SP Type Parallel Mechanism
CS266	Xiaoqing Wu, Xuli Wang, Lianling Sun, Daqing Liu, Runcheng Li, Xueshan Yu
CS273	A Cooperative Control Strategy of Connected and Autonomous Vehicles in Ramp Merging Areas with Mixed-Autonomy Traffic
	Junqi Yan, Manchu Xiong, Lihui Zhang
CS280	Research and Experiment on Key Technologies of Endoscopic Sweep Frequency OCT System
	Jing Lyu, Lin Ren, Qinying Liu, Yan Wang, Yuguo Tang, Min Li
CS290	Research on the Design and Key Technology of "Smart Housing Construction" Service Management Platform-Taking Zhijiang City as an Example
	Qing An, Lang Rao, Shusen Wu

CS299	Optimization of Distribution Mode of the Fresh Food Logistics Front Warehouse from the Perspective of Intelligent Logistics
	Xudong Wu
CS309	Trusted Analysis of Interaction Behavior of Distributed Nodes based on Checkpoints
	Xuejun Yu, Tianqi Zheng
CC215	Eight-Band Orthogonal Wavelets for Fast Calculation
CS317	Qingyun Zou
CS328	Study on Mountain Space in Mount Tai Region Based on GIS Spatial Data Analysis
	Congcong Liu, Fei Wang, Wengang Wang
CS346	An Improved Method of Friction Compensation and Stability Control for Optoelectronic Stabilized Platform
	Peng Gao, Weiguo Lu, Wenbo Zhang
CS356	Multi-Party Security Collaboration Model of Electric Power Data Based on Federated Learning
	Xiuli Huang, Congcong Shi, Xianzhou Gao, Pengfei Yu
CS365	Analysis of Power Grid Dispatching Instructions Based on BERT-BIGRU Model
	Jing Jiangping, Yang Xinjun, Zhang Liudong, Sun Xinjie

Poster Session 2

CS377	A Design of Intelligent Group Control System for Heating in Elderly Care Community
	Jie Dong, Zhaoping Meng, Weiwei Li
CS385	Advanced Manufacturing Data Space Visualization Based on PCA-Radviz Model
	Jianjun Wang, Yan Zhou, Ran Wang
CS392	Hydraulic Control System Based on Adaptive Control Method
C8392	Xingtian Zhang, Keqiang Liu, Yue Zhao
CS402	Design of intelligent operation and maintenance applet using Wechat platform
	Wang Yixuan
CS407	Dynamic simulation and analysis of planar four-link mechanism with multi-clearance
	Hou Xurui, Jin Guoguang, Wei Zhan, Wang Zhimin

CS419	Dynamic simulation and Analysis of Propulsion Performance of Intelligent Unmanned Boat
	Shaofeng Guo
CS429	Automatic Detection System and Intelligent Security Control Technology for Toxic Gases in Underground Operations
	Yasu Cao, Kebo Zhang, Huiru Wang, Wenyu Lin
CS437	Research and Application of Computer Internet Technology in Intelligent Financial Risk Monitoring System
	Tao Teng
CS460	Future smart mobile edge computing technology in mobile communication networks
	Jiaming Liu
CS472	Research on computer aided design and algorithm optimization of intelligent home care operation system
	Lu Youlan
CS482	A computer assisted training system based on artificial intelligence and virtual reality technology
	Wang Zhan, Dong Guangzhi, Ba Xinglai
CS489	Design and Implementation of LED Single Lamp Dimming and Color Temperature Smart Control System for Tunnel Lighting
	Pu Min
CS502	Sentiment Analysis of Online Comments through Semantic Networks and ROST Text Mining Software*
	Wu Di, Yao Limei
CS514	Application of Smart Service Robot Path Planning Based on Improved A* Algorithm
	Xiaoyi Yuan
CS522	Research on Topology Transformation Method of Wind Turbine Airfoil
CB322	Zhaohuang Zhang, Di Gao, Xiaona Jia, Yutong Li, Bushra Tabassum
CS534	Equity-Ecological Food System Based on Hierarchical Clustering
C3534	Qingyuan Lin
CCEAO	Design of Micropower Pollution Treatment System
CS543	Longsheng Pan
CS560	Design and Implementation of Chinese Teaching Resources Optimal Allocation Platform Based on Big Data Technology
	Dan Fan

CS581	Research on content and mode recommendation of humanistic quality education for science and engineering students based on collaborative filtering algorithm
	Min Lu