

CONFERENCE SCHEDULE

**2020 IEEE International Conference on Artificial Intelligence and
Computer Applications (ICAICA 2020)**

June 27-29, 2020 Dalian, China

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Sponsors



Program

June 26, 2020	
09:00 – 18:00	Registration
June 27-29, 2020 Poster Presentation Session	
9:00 – 18:00	http://icaica.org/posters.html
June 27-29, 2020 Oral Presentation Session	
June 27, 9:00 – 12:00	Session A, Session B
June 27, 14:00 – 18:00	Session C, Session D
June 28, 9:00 – 13:00	Session E, Session F
June 28, 9:00 – 10:00	Keynote I, Jie Li (Session E)
June 28, 14:00 – 19:00	Session G, Session H
June 28, 15:00 – 16:00	Keynote II, Baihua Li (Session H)
June 29, 9:00 – 12:00	Session I, Session J
June 29, 14:00 – 18:00	Session K, Session L

Oral Presentation Session

June 27, 2020 Oral Presentation Session	
09:00 – 12:00	Session A, Session B
Session A Presentation Papers: CA001, CA002, CA005, CA008, CA011 CA016, CA021, CA026, CA053, CA056 CA058, CA059, CA063, CA065, CA067	Session B Presentation Papers: CA071, CA075, CA076, CA077, CA079 CA080, CA081, CA082, CA084, CA085 CA086, CA088, CA090, CA091, CA092
14:00 – 18:00	Session C, Session D
Session C Presentation Papers: CA093, CA095, CA097, CA100, CA101 CA103, CA104, CA106, CA111, CA115 CA120, CA121, CA122, CA123, CA125	Session D Presentation Papers: CA127, CA129, CA130, CA132, CA134 CA144, CA145, CA150, CA151, CA153 CA158, CA159, CA160, CA161, CA164
June 28, 2020 Oral Presentation Session	
09:00 – 12:00	Session E, Session F
Session E Presentation Papers: CA166, CA168, CA179, CA182, CA185 CA186, CA192, CA194, CA199, CA200 CA209, CA214, CA219, CA230, CA237	Session F Presentation Papers: CA252, CA264, CA281, CA292, CA295 CA302, CA306, CA308, CA311, CA314 CA317, CA341, CA352, CA359, CA369
14:00 – 18:00	Session G, Session H
Session G Presentation Papers: CA370, CA381, CA382, CA390, CA392 CA401, CA403, CA404, CA405, CA407 CA408, CA410, CA411, CA413, CA414	Session H Presentation Papers: CA417, CA419, CA421, CA422, CA425 CA426, CA428, CA431, CA432, CA433 CA436, CA437, CA439, CA440, CA443

June 29, 2020 Oral Presentation Session

09:00 – 12:00	Session I, Session J
Session I Presentation Papers: CA444, CA446, CA447, CA449, CA451 CA452, CA454, CA455, CA458, CA459 CA460, CA463, CA466, CA467, CA469	Session J Presentation Papers: CA471, CA477, CA478, CA481, CA483 CA484, CA485, CA487, CA489, CA490 CA491, CA492, CA494, CA496, CA498
14:00 – 18:00	Session K, Session L
Session K Presentation Papers: CA500, CA501, CA503, CA505, CA506 CA508, CA510, CA511, CA513, CA515 CA517, CA518, CA522, CA524, CA529	Session L Presentation Papers: CA531, CA533, CA534, CA536, CA538 CA539, CA541, CA543, CA544, CA546 CA548, CA549, CA551, CA553

Poster Presentation Session

June 27-29, 2020 Poster Presentation Session
June 27, 09:00 – June 29, 18:00
http://icaica.org/posters.html
Presentation Papers: CA004, CA006, CA010, CA013, CA014, CA017, CA019, CA020, CA024, CA025, CA028, CA030, CA032, CA033, CA035, CA036, CA037, CA038, CA041, CA043, CA045, CA046, CA048, CA049, CA050, CA052, CA060, CA064, CA066, CA069, CA070, CA072, CA073, CA105, CA108, CA109, CA112, CA113, CA116, CA118, CA139, CA140, CA141, CA146, CA149, CA195, CA196, CA197, CA201, CA202, CA204, CA205, CA206, CA207, CA211, CA223, CA225, CA236, CA239, CA241, CA242, CA245, CA249, CA250, CA253, CA256, CA261, CA266, CA268, CA286, CA289, CA290, CA297, CA299, CA300, CA303, CA310, CA315, CA345, CA353, CA354, CA356, CA357, CA365, CA366, CA367, CA373, CA375, CA377, CA380, CA384, CA386, CA388, CA389, CA393, CA396, CA397

Join the conferences

<p>ICAICA 邀请您参加腾讯会议 会议主题: ICAICA Session A 会议时间: 2020/6/27 09:00-12:00 点击链接入会, 或添加至会议列表: https://meeting.tencent.com/s/tmmdHbrAXkRJ 会议 ID: 914 605 511 手机一键拨号入会 +8675536550000,,914605511# (中国大陆) +85230018898,,,2,914605511# (中国香港)</p>	<p>ICAICA invite you to attend the Tencent conference Conference Topic: ICAICA Session A Conference Time: 2020/6/27 09:00-12:00 Click the link to join the meeting directly: https://meeting.tencent.com/s/tmmdHbrAXkRJ Conference ID: 914 605 511 Dial Number (based on your geographic location): +8675536550000,,914605511# (Mainland China) +85230018898,,,2,914605511# (Hongkong, China)</p>
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Session A

CA001	New Branch Optimization Design Based on RefineNet
	<i>Gengyun Ren, Xiujie Qu</i>
CA002	Picking Trajectory Planning of Citrus Based on Improved Immune Algorithm and Binocular Vision
	<i>Zuoliang Tang, Lijia Xu, Hong Xie</i>
CA005	Improvement of Model Simplification Algorithm Based on LOD and Implementation of WebGL
	<i>Liu Xiao, Liu Yian, Liu Qin</i>
CA008	Corona Finite Element Analysis and UV Visual Image Processing of UHV Transmission Line Fittings
	<i>Zhang Shiling</i>
CA011	Research on the Application Mode of Blockchain Technology in the Field of Shipbuilding
	<i>Jun Zhu, Maopu Wu, Caiyun Liu</i>
CA016	The modeling and verification of DSDM in airport taxi
	<i>Rui Men</i>
CA021	A Signal Modulation Identification Method Based on Neural Network
	<i>Jin Wu, Jianxi Lin, Bin Tian, Jing He</i>
CA026	Chinese Sentence Pattern Feature Extraction Based on Massive Data Analysis
	<i>Zhengchen Cao, Jingchang Pan, Jiahao Li</i>
CA053	Optimal fatigue life design of double row angular contact ball bearings by an adaptive RL-BFGS algorithm
	<i>Qing Shao, Tao Xu, Yoshino Tatsuo</i>
CA056	Dual-discriminator GAN: A GAN way of profile face recognition
	<i>Xinyu Zhang, Yang Zhao, Hao Zhang</i>
CA058	Code Plagiarism Detection Method Based on Code Similarity and Student Behavior Characteristics
	<i>Qiubo Huang, Xuezhi Song, Guozheng Fang</i>
CA059	Application of neural network in abnormal AIS data identification
	<i>Yongming Wang</i>
CA063	Spectral-spatial classification of hyperspectral image with locality discriminative embedding kernel extreme learning machine
	<i>Peng Chen</i>

CA065	Ray Model Construction of Octagonal Structured Gaussian Beam Using Laguerre-Gaussian Expansion
	<i>Yue Wu, Mingying Lan, Li Gao</i>
CA067	A Novel Approach on Vessel Trajectory Prediction Based on Variational LSTM
	<i>Mengzhen Ding, Wei Su, Yingjie Liu, Jiuwen Zhang, Jianrui Li, Jinzhao Wu</i>

Session B

CA071	Evaluation of appearance-based eye tracking calibration data selection
	<i>Yuqing Li, Yinwei Zhan, Zhuo Yang</i>
CA075	Detection of Spinal Fracture Lesions based on Improved Yolov2
	<i>Gang Sha, Junsheng Wu, Bin Yu</i>
CA076	Intelligent Integration of Digital Resources in University Libraries Based on Mobile Agent Distributed Computing
	<i>Chunyu Wang</i>
CA077	Research on Instantaneous Fading Model of Stratospheric Communication Channel Based on Random Walk
	<i>Zheng Jianyun, Song Nan</i>
CA079	Research on Application of SOA-based Asset Management System for Power Equipment
	<i>Gan Wenfeng, Su Bo, Zhang Hong</i>
CA080	Research on the Digital Twin Based Computer Room Intelligent Operation and Maintenance Monitoring Methods
	<i>Zhang Hong, Zhang Qianqian, Li Yan</i>
CA081	Computational holographic imaging through scattering media using deep learning
	<i>Zhang Qianqian, Su Bo, Wang Chao</i>
CA082	Improving Fine-grained Text Sentiment Transfer for Diverse Review Generation
	<i>Haili Sun, Yan Huang, Songfeng Lu</i>
CA084	Insulator Profile Detection of Transmission Line Based on Traditional Edge Detection Algorithm
	<i>Chuanjiang Zhang, Xianfeng Liu, Banggan Chen, Peng Yin, Jian Li, Yi Li, Xiangyu Meng</i>
CA085	Research on Fighter Air Combat Effectiveness Evaluation Based on

	RVM and KFDA
	<i>Qian Wang, Liying Ding, Baohua Han, Shuangyan Chen</i>
CA086	Air Combat Effectiveness Evaluation for Fighter Based on Relevance Vector Machine
	<i>Haiqing Huang, Liying Ding, Liwei Yang, Baohua Han</i>
CA088	Research on feedback Cognitive Method of Insulator Self-blast State Based on Multi-scale Convolutional Network
	<i>Hailong Gao, Tianpeng Wang, Ye Lu, Yeping Fan, Binbin Yang, Dong Ma, Weitao Li</i>
CA090	Masking based Spectral Feature Enhancement for Robust Automatic Speech Recognition
	<i>Chunlei Liu, Longbiao Wang, Jianwu Dang</i>
CA091	Performance Analysis of LDPC in Ultraviolet Communication System
	<i>Yiwei Peng, Dong Zhou, Feiyue Yang</i>
CA092	Fast Velocity Estimation Based on Minimum Entropy and Newton Iteration in MIMO-ISAR Imaging
	<i>Junling Su, Weidong Jiang, Biao Tian</i>

Session C

CA093	Construction of hierarchical knowledge graph based on deep learning
	<i>Zuquan Peng, Huazhu Song, Xiaohan Zheng, Luotianhao Yi</i>
CA095	Study on the Multi-Task Model for Legal Judgment Prediction
	<i>Chenlu Wang, Xiaoning Jin</i>
CA097	Traffic Sign Detection Method Using Multi-Color Space Fusion
	<i>Xin Wu, Zhenzhuo Wei, Yulu Hu, Lianming Wang</i>
CA100	Design of Safety Monitoring System for Stage Machinery System
	<i>Wenxin Hao, Yue Dong, Yujun Cai</i>
CA101	Research on Multi-round task scheduling algorithm for Unmanned Combat Unit Based on TDMA Time Slot
	<i>Qi Zhimin, Zhang Hailin, Sheng Xiao, Ma Xianming</i>
CA103	An Optimal Faster-RCNN Algorithm for Intelligent Battlefield Target Recognition
	<i>Chang Xu, Wen Quan, Yafei Song, Yahang Wang</i>
CA104	Study of Low Cost and High Efficiency Intelligent Dual-Axis Solar

	Panel System
	<i>Kuo-Chi Chang, Yuwen Zhou, Hidayat Ullah, Kai-Chun Chu, Tanzeela Sajid, Yuh-Chung Lin</i>
CA106	Research on the Development Process of a Concept Model Based on Engineering Thought
	<i>Kaiquan Xiang, Bin Liu</i>
CA111	Image Super-Resolution Reconstruction Based on Deep Residual Network
	<i>Ling Gan, Kai Zhang</i>
CA115	Research on dynamic mining of cloud data based on fuzzy analytic hierarchy process
	<i>Yuyong Chen</i>
CA120	Design and Application of RFID-based Management System in Public Laboratory
	<i>Ying Zheng, Nan Lv, Rui Li</i>
CA121	Target detection approach for UAV via Hybrid Model
	<i>Rui Wang, Bingsong Xiao, Yang Xu, Xin Xiang, Wenbo Qiu</i>
CA122	Implementation and Design of MRR Fault Simulator for Optical Router
	<i>Aijun Zhu, Zhanqi Gu, Junhao Niu, Cong Hu, Chuanpei Xu</i>
CA123	Spectrum Sensing Performance Based on Improved Energy Detector in Cognitive Radio Networks
	<i>Yang Zheng, Yunfei Xia, Honghai Wang</i>
CA125	Study on Fast Frequency-sweep Method for Vibrating Wire Sensor
	<i>Yong Sang, Zengren Zhang</i>

Session D

CA127	Fault Diagnosis and Analysis of Ball Mill Jars Based on Wavelet Denoising and AR model Power Spectrum
	<i>Xutong Song, Zhuoyuan Liu, Yunna Sun</i>
CA129	A Mixed Model based on Wavelet Transform and Support Vector Regression to Forecast Stock Price
	<i>Zedong Yang, Xin Yi, and Anmin Zhu</i>
CA130	Multi-Label Entropy-Based Feature Selection with Applications to Insurance Purchase Prediction
	<i>Jiayu Zhou, Yong Guo, Yanqing Ye, Jiang Jiang</i>

CA132	Research on Detection Method of Tower Corrosion Based on Hough Transform
	<i>Ligang Ye, Wenzhen Li, Canguo He</i>
CA134	Human Gait Feature Data Analysis and Person Identification Based on IMU
	<i>Hu Chunsheng, Wang De, Zhao Huidong, Li Guoli</i>
CA144	Vision-guided autonomous landing of multirotor UAV on fixed landing marker
	<i>Rong Liu, Jianjun Yi, Yajun Zhang, Bo Zhou, Wenlong Zheng, Hailei Wu, Shuqing Cao, and Jinzhen Mu</i>
CA145	3D Object Reconstruction with Kinect Based on QR Code Calibration
	<i>Shidong Chen, Jianjun Yi, Hongkai Ding, Zhuoran Wang, Jinyang Min, Hailei Wu, Shuqing Cao, and Jinzhen Mu</i>
CA150	Latent Factor Model with User and Fused Item Embeddings for Recommendation
	<i>Dahui Zhu, Jianxiong Tang, Qia Li</i>
CA151	A mesh quality discrimination method based on convolutional neural network
	<i>Zhenpeng Xu, Xinhai Chen, Lihua Chi, Jie Liu, Chunye Gong</i>
CA153	Integrated Transfer Learning Based on Group Sparse Bayesian Linear Discriminant Analysis for Error-Related Potentials Detection
	<i>Jing Wang, Tianyou Yu, Zebin Huang</i>
CA158	Gesture Recognition from Bio-signals Using Hybrid Deep Neural Networks
	<i>Baao Xie, James Meng, Baihua Li, Andy Harland</i>
CA159	Research on parallel inverter system based on improved droop method
	<i>Zewu Huang</i>
CA160	Research on Freight Big Data Application Based on Railway Data Service Platform
	<i>Zhibo Cheng, Xiaoning Ma, Taifeng Li, Zhengyang Zhao</i>
CA161	Research on the Key Technologies of Big Data Based High-speed Railway Permanent Way Data Asset Collection Platform
	<i>Zhibo Cheng, Yanhua Wu, Taifeng Li, Zhengyang Zhao</i>
CA164	Residual Adaptive Mask Generative Adversarial Network for Image Raindrop Removal
	<i>Zihui Jia, Yuesheng Zhu</i>

Session E

CA166	Dialysate Decision Support Method Based on Deep Learning
	<i>Guan Wang, Shengnan Song</i>
CA168	Integrated platform of on-board computer and star sensor electronics system based on COTS
	<i>Xiaoxiao Feng, Shengwei Meng, Xiuhai Cui</i>
CA179	Candidate Selection-based Deep Affinity Network for Multi-object Tracking
	<i>Ming Tan, Xian Zhong, Liang Xie, Bo Ma, Wenxuan Liu, Hongxia Xia</i>
CA182	Research on an Improved KCF Target Tracking Algorithm Based on CNN Feature Extraction
	<i>Jun Gong, Yong Mei, Yong Zhou</i>
CA185	Fusing Edge-information in Image Denoising Based on CNN
	<i>Yichang Liu, Wei Ma</i>
CA186	Analysis on the Characteristics of Coil Impedance Change Induced by Nonferromagnetic and Ferromagnetic Cylinders
	<i>Ligang Liu</i>
CA192	Spatio-temporal Collaborative Convolution for Video Action Recognition
	<i>Xu Li, Liqiang Wen, Jinjun Wang, Ming Zeng</i>
CA194	An analysis and forecasts of online product sales based on BP Neural Network and Pearson Coefficient
	<i>Chenghao Wang, Jingsi Chen, Ruihao Zeng</i>
CA199	Combined prediction model of tuberculosis based on generalized regression neural network
	<i>Xuan Chen, Jiming Sa, Mingze Li, Yupei Zhou</i>
CA200	An Improved Object Detection Algorithm Based on M2Det
	<i>Tao Zhang, Linwei Li</i>
CA209	Road identifying by using electromagnetic sensor and camera in smart car field
	<i>Xiaoyue Li, Wangjie Li</i>
CA214	Analysis of Software Development Process Based on Software Components
	<i>Yun Xie, Zhizhong Li, Hua Li</i>
CA219	Innovation and Development Process of Software Development Methods under Digital Background

	<i>Yun Xie</i>
CA230	A Fuzzy-set Qualitative Comparative Analysis of Native Ads in WeChat Moment
	<i>Hua Zhang, Ziwei Luo</i>
CA237	Research on Seal Failure Mechanism of Dual Clamp Structure in Low-Pressure Pipeline System
	<i>Yue Liu, Bao Ke, Zhong Zhang</i>

Session F

CA252	Research and Application of Information Data Retrieval System in Station Based on Lucene Technology
	<i>Wei Ji</i>
CA264	Alarm text analysis based on convolution neural network and LSTM network feature fusion*
	<i>Wu Zhimin, Wang Shiwen</i>
CA281	Vehicle Longitudinal Speed Estimation Based on Kalman Filter
	<i>Xiao Chao, Xiao Jun, Liu Zhizhu, Li Zhu</i>
CA292	Low-overhead pieceable fault-tolerant construction of logical controlled-phase circuit for degenerate quantum code*
	<i>Chen Lin, Guowu Yang, Jinzhao Wu</i>
CA295	Community division algorithm based on node density and similarity
	<i>Lidong Fu, Fan Li, Dan Li</i>
CA302	Design of Temperature Remote Monitoring System Based on STM32
	<i>Zhiyuan Zhang, Ye Jin</i>
CA306	A perspective transformation method based on computer vision
	<i>Junshu Zhang, Jindong Zhang, Botao Chen, Jian Gao, Shanwei Ji, Xiaolong Zhang, Zhaodan Wang</i>
CA308	A Knowledge-enhanced Neural Sequence Labelling Model for Named Entity Recognition on Noisy User-generated Contents
	<i>Pengcheng Yang, Jun Zhang</i>
CA311	Process Mining of Duplicate Tasks: A Systematic Literature Review
	<i>Chenchen Duan, Qingjie Wei</i>
CA314	Visual object tracking based on Siamese network with a deeper and more powerful backbone

	<i>Jun Zhang, Xiao Tan</i>
CA317	Review of Research on Multilevel Inverter Based on Asynchronous Motor
	<i>Hong Xinyu</i>
CA341	A RGB LED PAM-4 Visible Light Communication Transmitter Based on a System Design with Equalization
	<i>Xuanzheng Wang, Li Wang, Kang Jian, Can Wang, and C. Patrick Yue</i>
CA352	Local occluded face recognition based on HOG-LBP and sparse representation
	<i>Zhang Jianxin, Wang Junyong</i>
CA359	Research on Portable Multi-Bar Code Recognizer Based on Digital Image Processing Technology
	<i>Huang Huilin, Li Tinghui</i>
CA369	Integrated architecture of sensor services, Internet of things and big data
	<i>Zhang Hanqing, , Wei Shaocong, Wang Yimeng</i>

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CA370	Time series assessment of multi-source spatiotemporal fusion reconstruction data based on dynamic time warping
	<i>Yonghong Chen, Dacheng Li, Qijin Han, Xuwen Zhang, Qi Zhang</i>
CA381	The Measurement System of DC Voltage and Ripple Based on C8051F350
	<i>Zhu Lingkai, Wang Qian, Li Honghai, Ren Xinghui</i>
CA382	Research and Technology Development of University Campus Sports Data Platform
	<i>Guan Li, Xinxin Huang</i>
CA390	Electromagnetic Lifting Control System Based on BAS+PID Algorithm
	<i>Xie Lixing, Lin Wei, Wang Lixiang, Ding Yan</i>
CA392	Study of a new type of movable non-avoidance stereo parking device
	<i>Wenjie Zhang, Ruzhou Ye, and Fang Dong</i>
CA401	Analysis of Temperature Characteristics of Electric Field Distribution in Oil-Paper Insulation
	<i>Yubo Shen, Dewen Zhang, Minhu Xu, Peng Zhang, Shiyu Chen, Shulei Shang</i>

CA403	A Improved Parameter Design Method of LCL APF Interface Filter
	<i>Lin Zhou, Zhiwen Liu, Yanchao Ji, Daoyuan Ma, Jianze Wang, Lingda Li</i>
CA404	Analysis of Electromagnetic Force in Short Circuit Fault of Generator-Motor
	<i>Yubo Shen, Sen Lan, Dewen Zhang, Minhu Xu, Peng Zhang, Shulei Shang</i>
CA405	State-of-Charge Estimation of Lithium Battery Based on Square Root Unscented Kalman Filter Algorithm
	<i>Lingling Ju, Dingdong Gu, Yun Shi, Yujiang He, Tao Chen</i>
CA407	Nonlinear Vibration Mechanism and Chaotic Behavior of Large Space Rotating Flexible Arms
	<i>Xinhua Zhao, Jiahao Wang, Lei Zhao, Bin Li</i>
CA408	An Interactive Communication Equipment Maintenance Support Strategy Model Based on Availability
	<i>Huaying Zheng, Qi Gao, Jingxiong Gao, Xiaobo Su</i>
CA410	Design of Reconfigurable Low Noise Amplifier Based on Active Inductor
	<i>Yang Luo, Tongsheng Xia</i>
CA411	Research on BLDCM Speed Loop Control Based on Variable Speed index Approach Law NFTSM
	<i>Zhaoyang Jian, Fan Ding, Chaohui Zhao, Yiting Hu, Lisi Tan</i>
CA413	Research on Commutation Torque Ripple of Different Sampling Currents Based on Field-Circuit Coupling
	<i>Fan Ding, Chaohui Zhao, Zhaoyang Jian, Yiting Hu</i>
CA414	Influence of Different Halbach Arrays on Performance of Permanent Magnet Synchronous Motors
	<i>Licong Duan, Hailing Lu, Chaohui Zhao, Hebiao Shen</i>

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	<i>Yunshi Wu, Honggang Pan, Wenjun Yang, Xin Liang</i>
CA419	The Global Variation of Photoresist Topography and CD Uniformity

	due to Local High Step
	<i>Tingxi Wu, Fusheng Zhu, Qiang Wang</i>
CA421	Research on Virtual Device based Intelligent IoT Management and Test Method of Security Stability Control Systems
	<i>Qi Zhao, Jianhua Zhu, Tingwang Wang, Bin Feng, Long Chen, Dongliang Nan</i>
CA422	Visible Light Communication System Based on White LED
	<i>Yanyan Zhu, Xiao Chen</i>
CA425	Research on Multi-node Collaborative Computing Management Model for Distribution Internet of Things
	<i>Weiting Zhu, Fengrong Qiang, Nan Liu, Xueqiong Wu, Kuanhong Li, Kun Zhang</i>
CA426	Design of Self-help Pickup System Based on Single Chip Microcomputer
	<i>Pengfei Han, Xiao Chen</i>
CA428	Study on the Validity of SiPM for Partial Discharge Detection in Power Equipment
	<i>Zhaoyu Peng, Bing Yan, Zhiwan Cheng, Dan Yue, Yutang Ma, Shun He, Zhihu Hong, Siyun Wang, Changjie Xia</i>
CA431	Research on the Minimization of the Power Loss of the DC Microgrids based on the Generalized Inverse of Matrix
	<i>Zhenchuan Sun, Jiasheng Zhang</i>
CA432	Research on Trusted Identification of Blockchain Uploaded Data
	<i>Shuai Wang, Xuejun Yu</i>
CA433	Review of Outlier Detection Algorithms Based on Grain Storage Temperature Data
	<i>Tingfeng Liu, Hui Gao, Jianjun Wu</i>
CA436	Toward Digital Twins Based Marine SCADA System
	<i>Xiaofei Zhang, Zhen Liu, Bin Han</i>
CA437	Calculation of Distance Protection Setting of Regional Power Grid Considering Traction Power Supply
	<i>Qidi Chen, Xiaoping Feng, Dongliang Nan, Wenhuan Wang, Lu Zhang, Xiaobing Tang</i>
CA439	Dynamics Simulation Analysis of High-speed Train Vehicle-track Coupling System Based on UM
	<i>Xingxiao Cao, Xiangping Wang, Hongbing Wang</i>
CA440	Research on the Multimedia Corpus Database Construction of

	Yongjiang River Area Dialect
	<i>Li Yongping</i>
CA443	Research and Implementation of 3D Reconstruction Algorithm for Multi-angle Monocular Garment Image
	<i>Xinrong Hu, Xiao Zeng, Junping Liu, Tao Peng, Ruhan He, Changnian Chen</i>

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CA444	An Ensemble Classification Algorithm for Imbalanced Text Data Streams
	<i>Gang Sun, Jianqiao Liu, Wei Mengxue, Wang Zhongxin, Zhao Jia, Guan Xiaowen</i>
CA446	Topology Checking Method for Low Voltage Distribution Network Based on Fuzzy C-Means Clustering Algorithm
	<i>Lu Chao, Zhao Lei, Li Yuhang</i>
CA447	Study on Risk Assessment System of Power Failure in Distribution Network of Large Cities
	<i>Xueqiong Wu, Fan Zhang, Lei Chen, Weiyan Zheng</i>
CA449	A Study on SF6 Gas Sensor on MEMS
	<i>Lei Qiao, Zhe Zheng, Wanli Sun</i>
CA451	Research on Expert System in Power Network Operation Ticket
	<i>Yuhang Li, Chenxi Huang, Chao Lu</i>
CA452	SingleNet: An end-to-end single network for non-intrusive load monitoring of multiple appliances
	<i>Fanhua Zeng, Junjian Chu, Ting Chong</i>
CA454	A Study on On-line Evaluation Method for User Side Power Supply Risks
	<i>Jiaqi Zhang, Yanghao Zhou, Sujuan Huang, Tao Han, Hongwei Du</i>
CA455	On the Distributed Jamming System of Covert Timing Channels in 5G Networks
	<i>Fangjian Shang, Xin Li, Di Zhai, Yang Lu, Donglei Zhang, Yuwen Qian</i>
CA458	Harmonic Loss Analysis of Three-phase Induction Motor Sine Winding
	<i>Hanlin Lai, Weitian Lin, Gong Pu</i>

CA459	A Text Recognition Method for Infrared Images of Electrical Equipment in Substations
	<i>Chunlei Zhang, Peiran Yuan, Changcheng Song, Zheng Yang</i>
CA460	Metasurface based Ultra-Thin and Flexible Multi-Frequency Perfect Absorber in Microwave Regime
	<i>Jianyue Liu, Ti Sun, Chinhua Wang</i>
CA463	Fast and High Precision Numerical Simulation of DC 2.5D under Multi-source Condition
	<i>Jianping Chen, Quanzhong Zhao, Chao Zhang, Peiqing Liu</i>
CA466	SAR Image Data Enhancement Method Based on EMD
	<i>Haoran Ren, Pengcheng Ouyang, Haolin Jin, Fan Wu</i>
CA467	Trajectory Optimization for UAV-Enabled Amplify-and-Forward Relaying System Based on Communication Performance
	<i>Zhengdong Li</i>
CA469	A Multi-Feature based Noise Detector for Random-Valued Impulse Noise
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CA471	Survivability Analysis and Optimization of Dependent Networks Based on Natural Connectivity
	<i>Ying Xu, Baihan Zou</i>
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	<i>Sheng Liu, Wenjing He, Xiuying Chen, Jingying Zhang</i>
CA478	Transition to the Intelligent Services Ecosystem: Integration of Block Chain and Internet of Things in Supply Chain Management
	<i>Xiuying Chen, Sheng Liu, Wentao Zhu, Qingzhu Li</i>
CA481	Phase-Type Diffractive Imaging Lens with High Diffraction Efficiency and High Error Tolerance
	<i>Penglei Zheng, Feng Xu, Feng Zhou</i>
CA483	Volatility Transmission in Chinese Trucking Markets: An Application Using BEKK, CCC and DCC-MGARCH Models
	<i>Wei Xiao, Chuan Xu, Hongling Liu, Xiaobo Liu</i>

CA484	Research on Face Expression Detection Based on Improved Faster R-CNN
	<i>Weiran Hua, Qiang Tong</i>
CA485	On Study of Intelligent Control Methods for a Bionic Dolphin Based on Sensory Feedback CPG Model
	<i>Yilin Yin, Bingxun Chen, Zhuohang Cao, Wei Chen</i>
CA487	Machine Vision On-line Detection System: Applications and Standardization Requirements
	<i>Xin Zhang, Yuhang Cheng, Lin Hu, Sha Wei, Feng Wu</i>
CA489	Risk Assessment of Logistics Projects based on BP Neural Network: A Case Study on African Countries
	<i>Dafeng Xu, Tongtong Xu, Chunmei Liu, Jingbo Yang</i>
CA490	A New Calibration Approach for Charging Facilities for Electric Vehicles via Machine Learning
	<i>Shaohui Chen, Di Zhou, Juntao Ye, Wenbin Zheng, Ping Fu</i>
CA491	Study on the Behavior of Waiting Area Selection of Metro Platform Passengers Based on Logit Model
	<i>Hua Hu, Yaning Geng, Chengfei Wang</i>
CA492	Research on Risk Assessment and Control of Internet Finance in China
	<i>Shurong Yan, Yinhua Liao, Dehua Liu, Weihong Li, Lina Wang, Linghua Peng, Xiaoxiao Tian, Manwen Tian, Hongli Huang</i>
CA494	Comprehensive Evaluation of Urban Health Level Based on Factor Analysis Algorithm and Systematic Clustering Algorithm
	<i>Qing Che, Hongyu Shi</i>
CA496	Research on User Behavior Analysis Model of Financial Industry in Big Data Environment
	<i>Junfeng Mei, Ying Chen, Taoli Ye, Chenglong Huang, Huiru Ye</i>
CA498	The Text Classification of Theft Crime Based on TF-IDF and XGBoost Model
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Session K

CA500	Aesthetic Analysis of Mahogany Inlaid Silver Pattern Based on Eye Movement Data
	<i>Chunli Liu, Junfeng Li</i>

CA501	Computing Method about the Optimal Spontaneous Fission Quantity of Agent during Ultra High Frequency High-Dimensional Linear Computing
	<i>Yanan Hu, Kejia Zhang, Chunsheng Li</i>
CA503	Analysis of Urban Greenway in Dangjia Area of Jinan Based on RS and GIS
	<i>Fei Wang, Chunhua Wang, Daohu Zhong, Min Lu, Fei Wang, Feifei Pei</i>
CA505	Construction of Industrial Internet of Things Based on MQTT and OPC UA Protocols
	<i>Huichao Shi, Li Niu, Jinhao Sun</i>
CA506	Using Raindrops Removal Algorithm to Improve Vehicle Recognition via AttentiveGAN
	<i>Zhiyong Liang, Bo Zhou, Boxiong Yang, Heng Xiao</i>
CA508	Assembly Guidance Method Based Six-axis Force Perception
	<i>Deyong Li, Chaoyu Yin, Zhanjie Liu, Jiabo Zhang, Haiyuan Wang, Mingli Ding, Yongqiang Li</i>
CA510	Whole Database Retrieval Method of General Relational Database Based on Lucene
	<i>Dawei Jin, Gang Chen, Wenning Hao, Liu Bin</i>
CA511	Multi-feature Fusion Target Tracking Algorithm Based on Global and Local Consistency
	<i>Jiangtao Dong, Yan Xu, Chao Liu</i>
CA513	Research Progress of RNN Language Model
	<i>Jianqiong Xiao, Zhiyong Zhou</i>
CA515	State of Charge Prediction Study of Vanadium Redox-Flow Battery with BP Neural Network
	<i>Hongtao Niu, Jianqiong Huang, Chenguang Wang, Xiaoyan Zhao, Zhifeng Zhang, Wei Wang</i>
CA517	Analysis of Intelligent Operation Path of Shanghai Public Sports Venues under Internet + Background—Take PHP Technology System as an Example
	<i>Lu Di</i>
CA518	License Plate Recognition System Based on Deep Learning
	<i>Chao Xu, Haifei Zhang, Wei Wang, Jianlin Qiu</i>
CA522	Research and Analysis on the Design and Planning of New Generation Communication Network
	<i>Haowei Chen, Riheng Guo, Peiyuan Niu, Qixin Li, Yuan Gao</i>

CA524	A Method to Evaluate and Optimize Teamwork
	<i>Zhenming Hu, Jiaao Yu, Kexin Yang</i>
CA529	Research on Investment Forecast of Distribution Based on BP Neural Network
	<i>Yanfang Kang, Xinju Guo, Dapeng Li, Xuyang Li</i>

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CA531	Research on Temperature and Humidity Prediction Model of Granary Based on RNN-LSTM
	<i>Liang Ge, Enhong Chen</i>
CA533	Research on Evaluating the Health of Lithium-ion Battery Based on Double Kalman Filter Algorithm
	<i>Qifeng Zhang</i>
CA534	Big Data Analysis Model of Customer Appeal Based on Power Enterprise Service Platform
	<i>Zhenhua Liu, Liwei Su</i>
CA536	Design of Hardware Acceleration System Based on FPGA and Deep Learning Algorithm
	<i>Yingying Chi, Zhe Zheng, Rui Liu, Wenpeng Cui</i>
CA538	Design and Implementation of an Infrared Image Generative Model
	<i>Changjin Li, Jian Cao, Xing Zhang</i>
CA539	Sentiment Analysis of E-commerce Text Reviews Based on Sentiment Dictionary
	<i>Yanrong Zhang, Jiayuan Sun, Lingyue Meng, Yan Liu</i>
CA541	Study on Breast Tumor Detection Based on Lasso-BP Neural Network
	<i>Yanrong Zhang, Lingyue Meng, Yan Liu, Jiayuan Sun</i>
CA543	The Relationship between Stroke Incidence and Meteorological Factors and Predictive Model
	<i>Mei Yang</i>
CA544	Image Recognition of Supermarket Shopping Robot Based on CNN
	<i>Xiaomin Zhang, Hang Lu, Qianhao Xu, Xushan Peng, Yongping Li, Li Liu, Zhengwu Dai, Weicon Zhang</i>
CA546	Design and Implementation of Intelligent Light Control System Based on Arduino

	<i>Xiaomin Zhang, Hang Lu, Jiahao Li, Xushan Peng, Yongping Li, Li Liu, Zhengwu Dai, Weicong Zhang</i>
CA548	Rate Forecast about Aircraft Grounded due to Maintenance with Modified Neural Network
	<i>Zhengwu Wang, Wansuo Liu</i>
CA549	An Ensemble Classification Algorithm for Text Data Stream based on Feature Selection and Topic Model
	<i>Zhongxin Wang, Jianqiao Liu, Gang Sun, Jia Zhao, Zhengqi Ding, Xiaowen Guan</i>
CA551	Site Selection and Layout of Earthquake Rescue Center Based on K-means Clustering and Fruit Fly Optimization Algorithm
	<i>Xiangyu Jiang, Naiyuan Pa, Wenchang Wang, Tiantian Yang, Wentsao Pan</i>
CA553	Research on Automatic Correction of Cavity Distortion for Laser Double Beam Coupled Machining
	<i>Hansong Yang, Zhiwei Zhang, Xian Feng</i>

Poster Presentation Session

CA004	Design of Intelligent Voice Message Doorbell Based on Microcontroller
	<i>Meili Liu, Liangzhi Zhang</i>
CA006	Optimization and Comparative Analysis of YOLOV3 Target Detection Method Based on Lightweight Network Structure
	<i>Zhang Menghan, Li Zitian, Song Yuncheng</i>
CA010	An improved binocular LSD_SLAM method for object localization
	<i>Jianwei Ren</i>
CA013	Cosine-grey Correlation Analysis Model Based on Combination Weighting and Its Application
	<i>Yin Pei, Liu Yan</i>
CA014	The new soaking test approach for testing the SONiC network testbed
	<i>Hui Li, Xiaolong Chen, Tao Song, Hao Chen, Guohong Lai</i>
CA017	Double-color digital image watermarking technology based on double transform domain
	<i>Li Xiaomin, Zhang Fengyuan</i>

CA019	Study on the Effect of Different Color Schemes of Form on Visual Fatigue
	<i>Chen Guo, Yingwei Zhou, Ning Li, Tuoyang Zhou, Zhanshuo Zhang, Qiuyu Liu</i>
CA020	Distance preserving multi-modal correlation feature learning with applications to image recognition
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CA024	Design of Multidimensional Spatiotemporal Information Relevance Model
	<i>Fengda Zhang, Jingchang Pan, Gaoyu Jiang</i>
CA025	Improved closed-loop detection and Octomap algorithm based on RGB-D SLAM
	<i>Chungui Deng, Xiaonan Luo, Yanru Zhong</i>
CA028	National Cultural Symbols Recognition Based on Convolutional Neural Network
	<i>Huang Zhixiong, Shi Zhuo, Kong Qian, Li Rongbin, Yang Ming, Zhang Mengxue, Yu Ke</i>
CA030	Nonnegative Matrix Factorization Algorithm with Two Attribute Matrices for Community Detection
	<i>Yingying Zhao, Hui Xu, Cheng Zhou</i>
CA032	The Time Series Prediction Algorithm Based on Improved GSA-ELM
	<i>Chen Lv, Yi'an Liu</i>
CA033	Application of Optimized BP Neural Network Based on Genetic Algorithm in Rugby Tackle Action Recognition
	<i>Zhiqiang Zhang, Li Gao, Yangyang Xiang</i>
CA035	Timing System for The Heavy-Ion Accelerator Facility
	<i>Ge Liang, Zhang Wei, An Shi</i>
CA036	A Node Sorting Method for K2 Algorithm in Bayesian Network Structure Learning
	<i>Fan Gao, Da Huang</i>
CA037	A Collision Detection Method Based on Vehicle Trajectory Data
	<i>Tian Yali, Bian Dezhi, Song Feifei</i>
CA038	Resolve out of Vocabulary with Long Short-Term Memory Networks for Morphology
	<i>Yun Tang, Chuanxiang Tang, Caixin Zhu</i>

CA041	The adaptive equalization compensation algorithm for DVI video signal
	<i>Wang Kuan, Gong Haibo, Qi Xiaopeng</i>
CA043	Staged text clustering algorithm based on K-means and hierarchical agglomeration clustering
	<i>Youjin Rong, Yi'an Liu</i>
CA045	Cyanobacteria and Bloom Control Management System
	<i>Yuming Tang, Hong Liang, Shi Chen, Hongyu Song</i>
CA046	Forecasting method of e-commerce cargo sales based on ARIMA-BP model*
	<i>Tan Bowen, Zhang Zhe, Zhang Yulin</i>
CA048	Research on Attack Mechanism using Attack Surface
	<i>Xinlin Liu, Jianhua Huang, Weifeng Luo, Qingming Chen, Peishan Ye, Dingbo Wang</i>
CA049	Spinal fracture lesions segmentation based on U-net
	<i>Gang Sha, Junsheng Wu, Bin Yu</i>
CA050	Fault diagnosis and analysis of water temperature sensor
	<i>Shengbo Zhou, Bingxian Li, Bin Wang</i>
CA052	The application of improved particle swarm optimization in slab stacking problem
	<i>Qiqi Zhang</i>
CA060	Online Multi-Object Tracking based on Improved Kernel Correlation Filter
	<i>Qiang Wu, Wendong Xue, Xin Zheng, Wei He</i>
CA064	Rule-based Expert System for Chinese Patent Law
	<i>Yuankun Wu</i>
CA066	DOA Estimation of Wideband LFM Signals Based on Zoom-FRFT
	<i>Zhao Wu, Shiqi Pei, Weidong Chen</i>
CA069	Improved Metric Learning Algorithm for Person Re-Identification Based on Asymmetric Metric
	<i>Wenbi Rao, Menghan Xu, Junwei Zhou</i>
CA070	FedBC: Blockchain-based Decentralized Federated Learning
	<i>Xin Wu, Zhi Wang, Jian Zhao, Yan Zhang, Yu Wu</i>
CA072	Speaker recognition based on BP neural network
	<i>Zhongyao Wan, Leiqing Dai</i>

CA073	Research on typical application of intelligent shipbuilding based on 5G communication technology
	<i>Jun Zhou, Rui Xu, Jun Zhu</i>
CA105	A Two-Stage Optimization Model for Drug Cabinet Design
	<i>Liang Dongcheng, Li Bin, Wu Qianqian</i>
CA108	Application Research of Ship Virtual Trial Training Platform
	<i>Ma Chao, Chen Long, Yang Chuping, Gui Canzhi, Fu Yu</i>
CA109	Disease Spots Identification of Potato Leaves in Hyperspectral Based on Locally Adaptive 1D-CNN
	<i>Fuquan Liu, Zhiyun Xiao</i>
CA112	Correlation Filtering Tracking Algorithm Based on Adaptive Model update
	<i>Ling Gan, Jipeng Jiang</i>
CA113	Anonymous scheme for blockchain atomic swap based on zero-knowledge proof
	<i>Ling Cao, Zheyi Wan</i>
CA116	End-to-End Speech Enhancement Based on Discrete Cosine Transform
	<i>Chuang Geng, Lei Wang</i>
CA118	Design and analysis of a 3 DOF nano-positioning stage
	<i>Qing Zha, Jun Zhong, Xiankai Cheng, Hongbo Yang</i>
CA139	Research on Total Radiation Dose Detector Based on Fiber Induced Loss
	<i>Jintong Zhang, Yuhe Li, Pengnian Yang, Junyu Hou</i>
CA140	Research on Computer Network Information Security System Based on Big Data
	<i>Gengyi Xiao</i>
CA141	Research on Key Manufacturing Technologies of New Energy Vehicles Based on Artificial Intelligence
	<i>Gengyi Xiao</i>
CA146	Recognizing and Measuring Satellite based on Monocular Vision under Complex Light Environment
	<i>Jinyang Min, Jianjun Yi, Yue Ma, Shidong Chen, Hanmo Zhang, Hailei Wu, Shuqing Cao, and Jinzhen Mu</i>
CA149	Design and Realization of Blood Oxygen and Heart Rate Sensor Nodes in Wireless Body Area Network
	<i>Tianao Cao, Lin Tao, Dan Liu, Qisong Wang, Jinwei Sun</i>

CA195	Recognition of circular workpiece in complex environment
	<i>Kaibo Yan</i>
CA196	Marriage Recommendation Algorithm Based on KD-KNN-LR Model
	<i>Zhengxia Cai, Xue Zhang</i>
CA197	Coherent Plane-wave Compounding with Double-Stage Delay Multiply and Sum Beamforming in Ultrasound Imaging: Simulation Study
	<i>Ke Song, Paul Liu, Dongquan Liu</i>
CA201	Research on Rapid Detection of Tooth Profile Parameters of the Clothing Wires Based on Image Processing
	<i>Xue Min, Chen Haijin</i>
CA202	Research and Defense of Cross-Site WebSocket Hijacking Vulnerability
	<i>Wenbo Mei, Zhaohua Long</i>
CA204	Mining Technological Innovation Talents Based on Patent Index using t-SNE Algorithms* Take the Field of Intelligent Robot as an Example
	<i>Ning Zhao, Guohui Yang, Yang Cao</i>
CA205	Research on GAN-based Image Super-Resolution Method
	<i>Xiangyu Xue, Xiangnan Zhang, Haibing Li, Wenyong Wang</i>
CA206	An Online Evaluation Method Based on Entropy-Topsis Radar Interference Effect
	<i>Wenliang Zhu, Sili Liu, Huixiang Xie, Feng Huang</i>
CA207	A study on the reconnaissance efficiency of the radar countermeasure equipment based on the DHGF algorithm
	<i>Wenliang Zhu, Lichao Ding, Shaolin Xu, Yu Xia</i>
CA211	Graphical Representation of Fourier Series from Fourier Transformation
	<i>Senxin Guo, Jialin Li, and Zihan Ning</i>
CA223	Cloud Computing Data Center Structure Based on Internet of Things and Its Scheduling Mechanism
	<i>Li Li</i>
CA225	Dual Attention based Suicide Risk Detection on Social Media
	<i>Yihua Ma, Youliang Cao</i>
CA236	Application Research of Boyer-Moore Algorithm in Cryptography
	<i>Niu Yan, Ji Yafei, Ye Shenglan</i>

CA239	Research on FRUC Algorithm Based on Improved U-Net
	<i>Qingqing Deng, Zhaohua Long</i>
CA241	CPG Gait Control of Quadruped Robot Introduced with Transient Interference Signal
	<i>Xiangkai Zhao, Qimin Li, Mengping Zhang</i>
CA242	A novel method for identification of state transition based on the van der Pol-Duffing oscillator in weak signal detection
	<i>Yuyang Li, Xuemei Xu, Yipeng Ding, Linzi Yin</i>
CA245	The squareness errors compensation for Coordinate Measuring Machines based on virtual factory
	<i>Fangyu Pan, Yuewei Bai, Kefeng Xu, Li Nie</i>
CA249	A Novel Obstacle Detection and Tracking System Using Fisheye Vision
	<i>Fubin Wang, Kai Yu, Jie Yang, Zixue Liu, Kai Su, Lianlian Xie</i>
CA250	Application of Improved Genetic Algorithm in Path Planning of Step DMD Digital Mask Lithography
	<i>Wang Yingzhi, Han Tailin, Jiang Xu, Yan Yuhan, Hu Jun</i>
CA253	Architecture Design of Cryptographic Data Management Platform Based on Hadoop
	<i>Xiaolin Li, Changchun Zhou, Xianwei Gao, Yanyan Han, and Meng Yang</i>
CA256	Research and Design of Intelligent Water-saving Irrigation Control System Based on WSN
	<i>Chen Yuanyuan, Zhang Zuozhuang</i>
CA261	DoS Vulnerability Verification of IPSec VPN
	<i>Yimin Zhou, Kai Zhang</i>
CA266	Design and Development of self-Adaptive Learning System Based on Data Analysis
	<i>Shan Meijuan, Yang Kaili</i>
CA268	Design and Implementation of Motion Capture System Based on Wireless Inertial Sensor
	<i>Jian Zhang, Lei Hu, Yu Zhao, Tianmiao Wang</i>
CA286	Realization of Integrity Test of Boundary-Scan Structure
	<i>Li Zhiwei, Pan Zhongliang</i>
CA289	Improved Genetic Algorithm Based Express Delivery Route Optimization Model

	<i>Wu Qianqian, Li Bin, Wu Qianqian</i>
CA290	Drawing Computerization and Intelligent Database Building Algorithm
	<i>Beibei Wang, Xue Yuan, Bo Li</i>
CA297	An Adaptive Grey Wolf Algorithm Based on Population System and Bacterial Foraging Algorithm
	<i>Yunhan Gu, Ning Liu</i>
CA299	Clustering Anchor for Faster R-CNN to Improve Detection Results
	<i>Han Weiyue, Liu Xiaohong</i>
CA300	Application of Isolated Forest Algorithm in Deep Learning Change Detection of High Resolution Remote Sensing Image
	<i>Wenchun Zhang, Hongyang Fan</i>
CA303	Multi-exposure Image Fusion with Layering Adaptive Detail Enhancement and Ghosting Removal
	<i>Lei Lv</i>
CA310	Application of Deep Residual Neural Network to Water Meter Reading Recognition
	<i>Yaoben Peng, Zhuang Chen</i>
CA315	Research on Image Edge Detection Method Based on Multi-sensor Data Fusion
	<i>Chu Hui, Bao Xingcan, Li Mingqi</i>
CA345	Stock Reversal Pattern Mining Based on Fuzzy Candlestick Lines
	<i>Yongqiang Pei, Jiawei Wang, Xueqing Tang</i>
CA353	Method for Nano-scale Displacement Measurement Based on Fiber Bragg Grating
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