

2026 8th International Conference on Information Science, Electrical and Automation Engineering (ISEAE 2026)

**Daqing, China
18-20 April 2026**

Pages 1–649

IEEE Catalog Number: CFP265B6-POD
ISBN: 979-8-3315-7213-6



Copyright © 2026, IEEE

All Rights Reserved

Copyright and Reprint Permissions:

Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

IEEE Catalog Number:	CFP265B6-POD
ISBN (Print-On-Demand):	979-8-3315-7213-6
ISBN (Online):	979-8-3315-7212-9

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA

Phone:	(845) 758-0400
Fax:	(845) 758-2633
E-mail:	curran@proceedings.com
Web:	www.proceedings.com

TABLE OF CONTENTS

An Automatic Integrity Detection Method for Substation Equipment Profiles based on Ordered Hash Chains	1
<i>Le Liu, Lei Wei, Xiaolei Huang</i>	
Comparison and Simulation of power system harmonic and reactive current detection methods	5
<i>Qiangwei Chen</i>	
PMSG Electromagnetic State Prediction Based on PIKAN Framework	9
<i>Hongbin Li, Guoying Li, Deyi Fu, Shupeng Sun</i>	
High-Precision Prediction Model for Magnetic Core Loss Based on Physical Characteristics of Soft Magnetic Materials	15
<i>Zeyu Zhao, Hao Li, Nike Liu, Zimai Liu, Luyuan Mao, Jingyi Lu</i>	
Research on the Thermal Design of a Certain Electronic Device Structure	20
<i>Xuesong Liang, Wangwei Qiao, Lei Hang</i>	
Multi-Objective distribution network reconfiguration based on an improved zebra optimization algorithm	25
<i>Ying Jia, Zhen Zhang, Zhaoli Liang, Hui Ye</i>	
Research on Dual-layer Low-carbon Dispatch of Power, Carbon, Load and Storage Considering Carbon Capture	30
<i>Chao Liu, Wenfeng Li</i>	
Fault-Tolerant Strategy for Nuclear In-Core Self-Powered Neutron Detectors Based on Virtual Twin Model and Data Repair	38
<i>Jiang Pan, Bo Fu, Shengqiu Jiang, Hongzhang Luo</i>	
Low-Carbon Economic Dispatch of the Microgrid Based on Multi-Objective Beaver Behavior Optimizer	43
<i>Youzhong Wu, Qingqing Pang, Biao Shi, Feiyan Li, Jinzhong Li, Wei Ma, Yuguang Xie</i>	
Research on Early Fault Detection Method of 10kV Cable Based on Adaptive Fusion of Multimodal Features	49
<i>Zikang Li, Haoran Liu, Xiaomin Lu, Jifeng Zhang, Ziyi Wang</i>	
Design of a High-Precision Conductivity Meter Based on an Improved Adaptive Algorithm	53
<i>Yide Yan</i>	
Prediction of Polymer Injection Frequency in Multi-Pump Oilfields Based on LGBM-BO and GRU-CBAM Fusion	62
<i>Haixu Liu, Wei Liu, Zixuan Wang, Wendi Yan</i>	
A 16-Channel Bipolar Constant Current Source for Active Shimming in Portable NMR Spectrometers	67
<i>Yidi Pan, Liang Guo</i>	
Effect of Voltage Rise Rate on Air Discharge Characteristics under Steep Pulse Conditions at High Altitude	71
<i>Bo Zhu, Hao Zhou, Xiangjie Ma, Ximu Han</i>	

A 1.2kW High-Efficiency Onboard Charger with Wide Input Voltage Range for Electric Forklifts	76
<i>Zhibo Liang, Fengjiang Wu, Guangfu Hu, Chengjing Yu</i>	
A Rotary Cylindrical Electric-Field Coupled Power Transfer System With Constant Current Output	81
<i>Junbo Wang, Fengjiang Wu, Chengjing Yu, Ying Jiao, Zhibo Liang, Jiaze Pan, Jiawen Hu</i>	
Design of multi-parameter integrated monitoring system for crude oil storage tanks	87
<i>Bing Xu, Jianqiang Cui, Hua Sun</i>	
Research on the improvement of the effectiveness of electromagnetic environment reproduction in the chamber	91
<i>Guotian Ji, Yue Zhang, Junfan Chen, Huiyun Wang, Hanbing Wu</i>	
Research on Hardware Circuit Design of Hub Motor Drive Controller for New Energy Vehicles Based on STM32	95
<i>Le Luo</i>	
Collaborative Optimal Scheduling Method for Microgrid Clusters Based on Multi-Agent Deep Deterministic Policy Gradient	102
<i>Han He</i>	
Identification of vulnerable lines in power system considering the randomness of wind power	106
<i>Ning Wang, Lixia Zhang</i>	
Research on cogging torque suppression in axial flux permanent magnet motors based on shape optimization design of permanent magnets	112
<i>Risheng Huang, Xingyu Liu, Dejun Yin, Xinxi Fan</i>	
Experimental Study on Negative Corona Characteristics in a Needle-to-Plate Gap under Unipolar Positive Voltage and Negative-to-Positive Polarity Reversal Conditions	118
<i>Yiyan Zhang, Li Zhang, Shiwei Du, Ikromjon Usmonovich Rakhmonov, Kurbonov Nurbek Nurullo Ugli</i>	
Operational Scenario Generation for Microgrids using Generative Adversarial Networks and Improved Mean-Shift Clustering	122
<i>Zhiwei Wan, Kai Yuan, Chongbo Sun, Yudi Ding, Ming Nie</i>	
Energy Efficiency Comparison Between Pulsed and AC Power Supplies for Nitrogen Fixation in Dielectric Barrier Discharge	131
<i>Jiaxinyi Huang, Yashuai Zhang, Zhuo Liu, Aiguo Tan</i>	
Arc Fault Detection Based on Hierarchical Classification of Pulse Signals	138
<i>Zehan Li, Junlin Huang, Guanghai Bao</i>	
A Lightweight Detection Approach for Series Arc Fault in Photovoltaic Systems	144
<i>Wenkai Zheng, Junlin Huang, Guanghai Bao</i>	
HFSS Simulation and Analysis of a Wideband Coaxial Switch	150
<i>Zhigang Kong, Mingtao Wu</i>	
Optimization and Analysis of Electromagnetic Performance for Interior V-type Permanent Magnet Synchronous Motor	154
<i>Ziqiang Gai, Wang Yu, Caili Hu</i>	
Analysis and Design of a Novel High-Gain Ultra-Sparse Matrix Converter	158
<i>Yushuai Liu, Zhou Yue, Yi Yao, Yudan Yang</i>	

Distributed scheduling strategy for highway microgrid clusters based on improved ADMM	166
<i>Mengjun Chen, Haoyu Zhang, Mingxing Shao, Zhuangzhuang Liu, Xianfeng Xu</i>	
Study on the Deformation Mechanism and Numerical Simulation of Power Transmission Tower Foundations in Cold Regions under Multi-Factor Coupling	175
<i>Yang Zhang, Boyu Jiao, Haichao Peng, Cong Tan, Qi Xu</i>	
Research on DC Bias Mitigation Schemes for 220kV Multiple Transformers Sharing a DC Magnetic Bias Suppression Device	181
<i>Jin Hu, Zhou Lu, Lingfeng Xia, Xiaotong Gou</i>	
Power System State Estimation: Current Research Status and Future Perspectives	187
<i>Yuhao Guo, Yu Wang, Fan Tang, Zhenlin Ni, Yan Mei, Dafu Liu</i>	
Small-Sample Leak Detection for Natural Gas Pipelines Based on Efficient Diffusion-Model Data Augmentation and Lightweight ResNet	192
<i>Dongmei Wang, Xiaotong Zhang, Yang Wu, Jingyi Lu, Peng Wang, Xingyu Liu</i>	
Small Signal Stability Analysis of PMSG-based Wind Farm with VSC-HVDC System	196
<i>Jinpeng Yang, Yanming Chen, Xiaojing Liu, Ge Xin</i>	
Stability Analysis of Grid-Forming Doubly Fed Induction Generator Wind Turbines Under Strong-Grid Conditions	200
<i>Wenxin Liu, Yanming Chen</i>	
Small-Signal Stability Analysis of Hybrid Grid-Forming and Grid-Following Converter Systems	204
<i>Ge Tang, Yanming Chen</i>	
Mechanism and Suppression of Low-Frequency Oscillations in Lightly Loaded V/f-Controlled Induction Motors	208
<i>Min Wu</i>	
Optimal scheduling strategy for integrated energy systems considering low-carbon operation	212
<i>Chengbo Sun, Kaijie Mei</i>	
Design of a Low-Noise Wideband Preamplifier Based on Multiple Discrete Current Sources	216
<i>Kun Guan, Xulei Han, Qidi Sun, Meitao Zhai, Limin Zhang, Xiaofeng Yi</i>	
Development of a Microseismic-Electrical Joint Monitoring System Based on a Unified Data Acquisition Architecture	220
<i>Meitao Zhai, Jiankang Ma, Shumin Wang, Pengyu Wang, Kun Guan, Xiaofeng Yi</i>	
Research on the Cracking Mechanism of ZnO Varistors under Extreme Cold and Formula Modification	225
<i>Lei Wang, Wenbo Yu, Shiyu Chen, Zhongyuan Li</i>	
Study on Lightning Activity Characteristics and Impulse Aging Characteristics of ZnO Varistors in Extremely Cold Regions	229
<i>Lei Wang, Jian Zhang, Zhibin Li, Lu Li</i>	
Optimization and Simulation of Krypton-85 Monitoring Technology in Spent Fuel Reprocessing Plants	234
<i>Yuxin Wang, Xutao Xu, Yongjun Xu, Xiao Xu, Xinyu Wang</i>	
Electromagnetic Noise Analysis and Research on 10kV Medium-Voltage 36-Pole Circulating Pump Motor for a Nuclear Power Project	238
<i>Wenlei Zhang, Deyang Feng, Bin Xie</i>	

Structural Optimization of Tri-post Insulators for $\pm 500\text{kV}$ DC Gas-Insulated Transmission Lines	245
<i>Liuhuo Wang, Han Qi, Xinghua Wang</i>	
A Global Evolutionary Optimization Method for Power Grids Considering Engineering Temporal Coupling	249
<i>Zhenlin Ni, Yu Wang, Chong Shao, Yuhao Guo, Le Ma, Wanwei Li</i>	
Design of wireless charging car based on magnetic coupling resonance transmission	254
<i>Deshen Lv, Mingjun Zhang, Dongfeng Li, Minghui Li, Jiale Lu, Xuemei Lu, Renhe Zuo</i>	
Coordinated Optimization Strategy for Distributed PV Distribution Networks Based on Hierarchical Power Allocation	260
<i>Haoran Ma, Jianfeng Yang, Hong Li, Nan Hu</i>	
Corrosion Location Method for Grounding Grid Based on Frequency Response and OOA-SVM	264
<i>Yabo Liang, Xiu Zhou, Jiawu Zuo, Tian Tian, Yukun Ma, Xin Yang</i>	
Application of EWT-IVA Decomposition in Parallel Arc Fault Detection	268
<i>Liang Li, Jiadong Zhao</i>	
An inertia estimation method for power generation units based on weight-adaptive integration model	272
<i>Zhen Li, Jinfan Xie, Julong Chen, Yuanping Guo, Jianfeng Yang, Xia Xiao, Si-Zhe Chen</i>	
Predicting Condensation Critical Temperature of High-voltage Switchgear in Substation Based on BO-BiGRU	276
<i>Feng Xue, Yingxiong Leng, Xiaoji Guo, Caihong Dong, Yanji Zhou</i>	
Gas Pipeline Leak Fault Diagnosis Method Based on IPSO-VMD-SVM	280
<i>Yufeng Liu, Wei Xie, Xiaojian Zhang, Deng Feng, Chenglong Wang, Shijin Jiang, Jie Wang, Hongge Zhang</i>	
Research on Determination of Semiconductor Epitaxial Layer Thickness Employing Electromagnetic Computation	288
<i>Yunkai Du, Ying He</i>	
Improved DS static reconfiguration method for photovoltaic arrays	293
<i>Kaixuan Xie, Kunli Guo, Zhiling Han, Lin Guo</i>	
A Smart On-Site Verification System for 220-kV Voltage Transformers With Multi-Source Data Fusion and Credibility Assessment	297
<i>Kan Zhang, Yufu Zhao, Ke Zheng, Minzhe Tian, Xiaojie Liu, Yuanyuan Gu</i>	
Research on the Application of Artificial Intelligence Technology in Hidden Danger Identification for Power Grid Operation and Maintenance	303
<i>Pai Peng</i>	
Design of Series-Connected SiC MOSFET Voltage Equalization Circuit with Active Snubber	307
<i>Changkun Xu, Hongwei Wang, Yiyuan Qu, Luoxuan Ma</i>	
Data-physics fusion-driven transient power angle prediction for grid-forming power systems	311
<i>Guodong Luo, Xiaoping Li, Yu Jiang, Xun Wu</i>	
A Surface-Mounted Coil Matrix-Based Evaluation Method for the Degree of Current Offset in StakPak IGBTs	315
<i>Wenjie Wu, Xinlin Xu, Ziyi Bu, Kunpeng Zha, Kefeng Wang, Hong Shen, Lei Qi</i>	

Research on Capacity Optimization of Distribution Transformers in Metro Stations	320
<i>Ji Luo, Yin Li</i>	
Voltage Regulation of Distribution Networks via an Enhanced Local Control Curves	324
<i>Yuanzhe Tian, Xiaoyu Zhu</i>	
Optimization Research on Tidal Energy Generation System Based on Intelligent Gate Control and Pumped Storage	328
<i>Jiayang Li</i>	
An Electro-Thermo-Mechanical Co-Design Framework for High-Power-Density EV Motors: Multidimensional Parameter Correlation and Multiphysics Coupling Modeling	333
<i>Xin Zeng, Julian Zhu, Song Liu, Yongyuan Wang, Huiling Jia</i>	
Optimization of Overcurrent Protection Coordination in Medium-Voltage Mining Electrical Systems Considering Ground Faults and Dynamic Operating Conditions	345
<i>Sneider Miguel Huanuco Ramos, Lizceth Mildre Prudencio Reyes, Jhosselin Madahi Flores Camayo</i>	
Test Methods for Step Response of Pressure Transmitters	351
<i>Hai Zheng, Ming Xia, Weishan Zeng</i>	
Electromagnetic Modelling and Mirror Ratio Analysis of HTS Magnetic Mirror Coils	356
<i>Xucheng Wang, Qianjun Zhang, Mengchao Dong, Qing Li</i>	
Development of an Integrated Platform for a Portable Low-Field NMR Spectrometer Based on a Nested Halbach Array and Decoupled Temperature Control	360
<i>Haolin Li, Liang Guo, Guangfu Liu</i>	
Application of Multi-Scale Deep Learning Model for Power Quality Disturbance Identification in Distribution Networks	365
<i>Wentao Mao</i>	
Pipeline Leakage Detection via MCNN-BiGRU with Multi-Scale Feature Extraction Based on Synchrosqueezed Wavelet Transform	369
<i>Yina Zhou, Junzhuzi Xie, Wendi Yan, Huiyi Wang, Shuyu Qiu, Jiahao Liu</i>	
Power Load Forecasting: A Dynamic Temporal Fusion Mechanism Based on Transformer in Smart Grids	376
<i>Jinyu Wu</i>	
A Wide-Supply-Range Low-Temperature-Coefficient Bandgap Voltage Reference in TSMC 65nm CMOS	381
<i>Jinzhao Fan</i>	
Risk-Aware Dynamic Operating Envelopes for DNO–MG Coordination in Active Distribution Networks	386
<i>Mingyang Ge, Wanyi Lai, Yihui Sun, Shufeng Dong</i>	
Study on nonlinear rub-impact mechanism of horizontal drill string-well wall under fluid-solid coupling condition	394
<i>Liangchen Qiao, Baojin Wang, Xin Zhang, Hong Chang</i>	
Parameter Identification of Fractional-Order Time-Delay Systems Based on Improved Particle Swarm Optimization	399
<i>Chao Chen, Zhengsheng Chang, Yang Shi, Shikun Shao</i>	

Data-Driven Modeling of Steering Feedback Torque for Multi-vehicle Steer-by-Wire Systems	404
<i>Shaojie Ren, Miaohua Huang, Shenao Wan, Ye Tao</i>	
Test and evaluation research on false reaction scenarios of automatic emergency braking system	408
<i>Yang Liu, Qing Li, Wenbo Ma, Changlu Zhang</i>	
Speed fluctuations suppression strategy for PMSMs based on improved EBADRC	414
<i>Zhengjie Hao, Tianzhen Liu, Taiyun Cui, Long Lei</i>	
Full-Speed Range Sensorless Control Strategy of High-Power PMSM for Ship Propulsion Systems	419
<i>Chengjing Yu, Fengjiang Wu, Jiase Pan, Ying Jiao, Zhibo Liang, Junbo Wang, Jiawen Hu</i>	
Six-Degree-of-Freedom Motion Model of Submersible Under the Action of Near Wall	424
<i>Jicheng Ding, Xiang Li, Chuanqi Li, Yi Duan</i>	
Dynamic Modeling and Prediction for Multi-Degree-of-Freedom UAV-Manipulator Systems	430
<i>Ji Zhou</i>	
Space Motion Modeling and Control System Optimization Design of Unmanned Underwater Vehicles Based on Comprehensive Simulation	435
<i>Jia-Lin Niu, Jia-Hao Fang, Meng Wen, Ya-Nan Niu</i>	
PMSM Control Strategy Based on Adaptive-Gain Super-Twisting Sliding Mode Observer	439
<i>Zhiguo Gao, Zhigao Chen</i>	
Trajectory Optimization of AUV for Oil Spill Monitoring Based on ConvLSTM Environmental Prediction*	443
<i>Hanhui Fu, Jicheng Ding, Yi Duan, Chuanqi Li</i>	
Physics-Informed Spatio-Temporal Graph Neural Network and Improved DDPG for Load Forecasting and Demand Response Control of Central Air Conditioning Systems	449
<i>Zhenliang Yuan, Weili Zeng, Yuan Cai, Zhuofu Deng</i>	
Three-Vector MPCC-LADRC Cascade Control Strategy and Performance Analysis for Permanent Magnet Synchronous Motors	456
<i>Ye Gu, Chao Dong, Song Cai</i>	
A Study on the Optimization of Forming Process Parameters for Cylindrical Parts Based on Dynaform	462
<i>Cunping Liu, Zeming Tian, Zongping Luo, Huailing Luo</i>	
Design and Implementation of an Intelligent Life Jacket System for Scenic Spots	467
<i>Xingchao You, Jiale Chen, Zhaoxian Huang</i>	
Trajectory Tracking Control for Inspection Robots via Tube-Based Linear Model Predictive Control	473
<i>Haojie Cheng, Wei Zhang</i>	
A Hierarchical Model Predictive Control Strategy with Gradient Direction Correction for T-Type Three-Level Grid-Connected Inverters	477
<i>Wei Liu, Ziliang Wang</i>	
Real-Time Black Start Control Strategy for New Energy Systems Based on Short-Circuit Ratio Evaluation	482
<i>Wenxuan Liu, Liu Han, Teng Feng, Cunqiang Huang</i>	

Hierarchical PIDNN–LSTM–MPC Control for PMSM Servo Systems Under Constraints	487
<i>Lihua Yan, Zhen Wang, Zhaoting Hou, Jiarui Hou</i>	
A LiDAR–Inertial Localization and Mapping System for Humanoid Robots Based on FAST-LIO	491
<i>Yuhang Wang, Daliang Wang, Jianjian He, Xiao Liu, Yiming Jiang, Junfeng Zhu</i>	
SLAM-Based Autonomous Robot for Water Surface Inspection and Cleaning	496
<i>Xiaona Kang, Diao Peng</i>	
The cooling system is based on the fitting of the correlation formula between the heat exchange quantity Q and the system energy consumption P	500
<i>Shen Zhang, Baozhong Wang</i>	
Research on Adaptive Strong Tracking EKF for Parameter Identification of PMSM	504
<i>Chong Li, Siqi Li, Jintao Chen, Deqiang Li</i>	
Dynamic Characteristics of a High-Frequency Vibration-Impact Rock-Breaking Device	509
<i>Weidong Wu, Lantao Zhu, Guojun Cao, Wentao Cui</i>	
A Fault Diagnosis Method for Chemical Processes Based on LSTM Optimized by an Improved Coati Optimization Algorithm	516
<i>Mingzhen Zhu, Yong Qin</i>	
Dynamic Simulation and Automatic Control Study of 4.5K liquefaction process of Large Helium Refrigerator	521
<i>Wenqing Cao, Zhiwei Zhou</i>	
Robust Adaptive Control of Dual-Motor Driving Servo System	525
<i>Haibo Zhao, Xianghong Zhou</i>	
Research on Grounding Wire Hanging Control Method for Substation Grounding Operation Robot	531
<i>Jialong Xie, Shaosheng Fan</i>	
Super-Twisting Sliding Mode-Modified Differential Linear Active Disturbance Rejection for PMSM Speed Control	538
<i>Song Shi, Bo Zhang, Ziyi Wang, Xiaosong Qi, Ke Yue, Kuntu Yang</i>	
Research on Permanent Magnet Synchronous Motor Based on Improved Fuzzy PID	543
<i>Dihao Zhong, Rong Hu, Jinyan Shi, Fei Xie</i>	
Random Forest-Enhanced Madelung Model for High-Precision Hysteresis Characterization in Piezoelectric Actuators	548
<i>Rui Li, Zijian Wang, Gang Li, Kairui Cao, Jinmei Xie</i>	
Electromechanical Coupling Modeling of Piezoelectric-Electromagnetic Vibration Energy Harvesters Under Transmission Line Micro-Wind Vibration	553
<i>Shikai Zeng, Sheng Ye, Zhenyu Zi, Yeming Lai, Hongxiao Yang</i>	
Design of a Robot Automatic Spraying System for Aerospace Electronic Products	558
<i>Jing Li, Chongye Li, Nanyan Shen</i>	
A Composite Control Strategy for Three-Phase Interleaved DC-DC Converter Based on Ultra-Local Model and ESO-STSMC	562
<i>Zhiling Han, Kunli Guo, Shuai Yuan, Lin Guo</i>	

Fault-Tolerant Trajectory Tracking for Quadrotor UAVs via Sliding Mode Control	566
<i>Haowen Sun, Xichao Wang</i>	
An Adaptive Inertia–Damping Control Strategy for a Quasi-Z-Source Grid-Forming Photovoltaic Inverter	571
<i>Shuai Yuan, Kunli Guo, Kaixuan Xie, Lin Guo</i>	
Endurance Optimization and Charging Path Planning for Agricultural UAV Swarms Based on an Energy-Constrained Model	576
<i>Dianyi Zhou</i>	
Improved PSO with Nonlinear Adaptive Parameters for Multi-UAV Cooperative Path Planning and Dynamic Obstacle Avoidance	580
<i>Yue Xu</i>	
Design and Research on an Intelligent Control System for Agricultural Machinery Based on Multimodal Data Fusion	589
<i>Yiming Song</i>	
A Low-Power Hybrid Magnetic Bearing System for Vacuum Molecular Pumps	594
<i>Guangjie Qi, Dongsheng Yang, Xiangri Ding, Yesheng Zhu</i>	
A Distributed Cooperative Control Framework for Dynamic Shape Formation and Obstacle Avoidance of Robot Swarms	601
<i>Yangtian Hu</i>	
A chemical process safety early warning level identification and risk analysis based on XGBoost method	606
<i>Chongxu Wang, Yong Qin</i>	
Research on Energy Optimal Path Planning Algorithm for UUV Considering Dynamic Constraints	611
<i>Meng You, Zhanfeng Ying, Hao Ge, Dingcheng Peng</i>	
Optimal Trajectory Control for Load Step-Up in LCC Resonant Converters with Voltage Doubler Rectifiers Based on Simplified State Trajectory Analysis	617
<i>Zhigang Chen, Shaofeng Han, Shengwen Fan, Haolin Liu</i>	
Nonlinear Decoupling and Intelligent Direct Power Control for Brushless Doubly-Fed Induction Generators	621
<i>Vuong Ngo Dang Dang, Suyu Hao, Liguang Yang, Chenqi Han, Van Dai Le, Xiaoliang Yang</i>	
A Collaborative Multi-Agent Framework with Retrieval-Augmented Generation for Urban Counter-UAV Situation Assessment and Interception Decision-Making	626
<i>Boxin Lin, Shuiling Mao, Pengyun Wang, Li Zhang, Haosu Zhou</i>	
An Intelligent Ventilation Constant-Pressure Control Method Based on State Awareness and a Hybrid Optimization Algorithm	631
<i>Guang Yang, Zhongshun Su</i>	
Dynamic Output Feedback RMPC for NCSs under Round-Robin Protocol subject to Hybrid Attacks	635
<i>Hongbin Cai, Fuchen Wang, Caiyun Sui, Ning Cui, Xiaoran Wang</i>	
Non-Fragile l_2 - l_∞ Fault Estimation for Discrete-Time Nonlinear Systems Under Random Sensor Delays	642
<i>Yanshuo Wu, Nan Hou, Hongyu Gao, Zhongrui Hu, Dianjie Sui</i>	

Robust H^∞ Estimation for Nonlinear Complex Networks With Dynamic Links and Integral Measurements*	650
<i>Haixin Li, Yanshuo Wu, Yanqin Wang, Mengdi Chang, Liang Guo, Nan Hou</i>	
Disturbance Rejection Control for Triangular Quadrotor Based on Reinforcement Learning	659
<i>Tianle Li</i>	
Fixed-time Command Filtered Attitude Tracking for Rigid Spacecraft with Neural Networks and Error Compensation	663
<i>Peixia Gao, Xu Xu, Tingruo Yan</i>	
Chaos Control in PMSM: An Adaptive Framework Based on Nonlinear Dynamics and Deep Learning	671
<i>Kun Yao, Xiaoyun Zhong</i>	
Prediction of docking error in aerial refueling based on Transformer-GRU	676
<i>Jianyu Man, Jinrui Ren</i>	
A Novel Robust Finite-Time Stabilization with State-Dependent Variable Exponent Subject to External disturbances	680
<i>Peixia Gao, Xu Xu, Tingruo Yan</i>	
HOA-ADRC: Hippopotamus Optimization-Driven Active Disturbance Rejection Control with Automated Parameter Tuning for PMSM Speed Regulation	685
<i>Dongshuang Wang, Chen Wang, Siyu Lin, Jiacong Qu</i>	
HOA-FOADRC: Hippopotamus Optimization-Driven Fractional-Order Active Disturbance Rejection Control with Composite Fitness Tuning for DC–DC Boost Converter Voltage Regulation	690
<i>Dongshuang Wang, Chen Wang, Siyu Lin, Jiacong Qu</i>	
A Transient Performance-Oriented Optimization Framework for Virtual Inertia and Damping in Virtual Synchronous Generators	696
<i>Zhilin Dong, Haoqing Xiong, Qianfeng Shen, Jun Yang, Shangzhi Pan, Shaohua Zhang, Rongqiang Su Taotao Li</i>	
A Lightweight Reinforcement Learning-Based Robotic Arm Control Method for Multi-Station Visual Inspection	701
<i>Hualin Li, Jiyang Lu, Zhongmou Huang, Zixin Chen, Binguang Li, Xinyi Chen</i>	
Opacity-Informed UAV Navigation with 3D Gaussian Splatting and Model Predictive Control	705
<i>Jiahao Tu, Zhongrui Hu, Chenghao Yao, Jingyi Lu</i>	
Discrete-Time Sliding Mode Stabilization for Autonomous Vehicles via an EWMA Anti-Windup Observer	710
<i>Shuyi Zhu, Xuwang Zhang, Ge Wu, Yuhao Ji</i>	
Two-Stage Variable-Decoupling Framework for Trajectory Optimization of Industrial Manipulators	718
<i>Gu Li, Jin Huang, Zichuan Wu, Qi Gao, Yong Jia, Gang Li</i>	
Fixed-Time Synchronization of Delayed Chaotic Memristive Neural Networks Modeling in Terms of Voltage-Charge-Time	723
<i>Yanting Huang, Jiening Wu</i>	
Optimization Design and Simulation Research of Motor Speed Regulation System Based on Improved PID Algorithm	729
<i>Guan Lei</i>	

Global Exponential Stabilization for a Class of Nonlinear Time-Delay Systems with Function Control Coefficients via Output-Feedback Control	733
<i>Yingming Sun, Shaoli Jin, Hui Li, Naiheng Ma</i>	
Secure Recursive Estimation for Discrete Systems with Unknown Input under Binary Encoding-Decoding Schemes	737
<i>Yawen Zhao</i>	
DCS-Based Coal Feed Control for Variable-Load Power Units	742
<i>Wenlong Ma</i>	
A Robust Incremental Deadbeat Predictive Current Control for SPMSM With Double-Weighted Compensation	747
<i>Halzat Yitniyaz, Guomao Li, Jihong Zhu</i>	
Deep Reinforcement Learning for Voltage Control in Active Distribution Networks	752
<i>YongZe Ma, Hong Li</i>	
Distributed Maximum Correntropy Kalman Filtering with Generalized Round-Robin and Weighted Try-Once-Discard Protocols	756
<i>Kunquang Liu, Fei Han, Qihang Wei, Nan Hou</i>	
Optimized Distributed Filtering for Multi-Rate Nonlinear Systems with Random Sensor Failures under Encryption-Decryption Mechanism	765
<i>Junying Hu, Zihao Wei, Fanqi Meng, Jun Hu</i>	
Online 3D Palletizing Robotic Arm Trajectory Planning Based on PPO Reinforcement Learning and SDF-Guided B-Spline Optimization	770
<i>Xingyan Sun, Shengxin Su, Tingting Wang, Jinyi Li</i>	
Dynamic Task Reassignment for Multi-Robot Collaborative Inspection with Fault Recovery	776
<i>Fengcai Huo, Runfeng Dai, Xiaowei Chen, Weijian Ren</i>	
Robust ∞ Pitch Control for Wind Turbine via Average Dwell-Time Switched Systems Approach	781
<i>Fang Li, Pengyu Wen, Shujuan Mu, Jiahui Li, Hongli Dong</i>	
A Secondary Ripple Suppression Method Based on Multilevel Active Power Decoupling	788
<i>Peiyu Xiong, Xiaojun Wang, Daqing Gao</i>	
Variance-constrained H_∞ State Estimation for Memristive Neural Networks via an Encoding-Decoding Strategy	794
<i>Wenxuan Sun, Yan Gao, Hairui Zhao, Zihao Wei, Zhenhao Chen, Cheng Feng, Pan Zhou</i>	
Hierarchical Trajectory Generation for UAV Swarms using Nonlinear Adaptive FOA and Dynamic VO	800
<i>Lin Zhang, Bo Zhang, Wen Gu, RuoHan Tian, YanXu Li, FeiYu Wang</i>	
SafeTune: An LLM-Driven Parameter Self-tuner for UAV Inspections in Power Grid Scenarios	806
<i>Siyang Liu, Kaikai Pan, Qidi Zhong, Wenyuan Xu</i>	
A Generative Data-Centric AI Approach to Industrial Vision Sorting Systems	812
<i>Bingyan Chen</i>	
A KAN-Improved Dual-Branch Model for Synchronous Motor Fault Diagnosis Based on Time-Frequency Fusion	817
<i>Wei Liu, Tao Wang</i>	

A Safety-Oriented Wild Mushroom Identification System Based on Fine-Grained Dual-Branch Networks and Multi-Scale Attention	822
<i>Lei Gong, Yanxiang Shi, Qiqi Yang, Nuo Zhou, Anning Pan</i>	
Autoencoder Semi-Supervised Feature Selection Algorithm Based on Double Graph Discriminant Information	827
<i>Miao Luo, Ping Gong</i>	
Optimization and Simulation of a High-Speed Data and Power Transmission System Based on Partial Coil Coupling and DQPSK	831
<i>Dezhi Zhang, Liyan Zhang</i>	
A Detecting Method For Line-Spectrum Target Based on Time-Frequency Signal Presence Probability Sensing	837
<i>Lekai Chen, Xiang Pan</i>	
Research on key technologies and development trends of broadband satellite communication systems for civil aircraft	842
<i>Sijing Liu</i>	
High-Throughput sCMOS Image Real-Time Compression System with FPGA-GPU Heterogeneous Co-processing	846
<i>Di Zhang, Yahui Xiao, Xiaoquan Yang, Tao Jiang</i>	
Research on the Design and Verification of Civil Aircraft Broadband Satellite Communication System	855
<i>Sijing Liu</i>	
Intensity-Adaptive Correction of Fixed Pattern Noise in Low-Light Line-Scan sCMOS Imaging	861
<i>Yu Zhang, Liangbo Song, Xiaoquan Yang, Tao Jiang</i>	
Design of a Broadband Monopole Quadrilateral Fractal Antenna for WiFi6E Applications	869
<i>Xiaoyue Ma, Xiaoming Zhu</i>	
Variable Step-Size LMS Adaptive Filtering Algorithm Based on Self-Adaptive Adjustment	873
<i>Siyu Liang, Ruizhe Xu</i>	
PowerIR-Net: A Deep Learning-Based Infrared Power Equipment Detection Algorithm	878
<i>Zien Xu</i>	
Fault Diagnosis of Capacitive Voltage Transformer Based on Infrared Thermography and Oscillatory Wave Partial Discharge Detection	882
<i>Shuo Xu</i>	
LA-DETR: Real-Time small object detection for UAV imagery based on improved RT-DETR	886
<i>Lixin Qiao, Qingsong Meng, Haibo Wang</i>	
Structured Causality Extraction and Directed Weighted Causal Graph Construction for Urban Water Supply and Drainage Accident Investigation Reports	891
<i>Shuxin Zhang, Yongqing Jiang, Yanqi Xie</i>	
A Hierarchical Virtual Machine Scheduling Algorithm for Multi-Zone Heterogeneous Environments	897
<i>Xiao-ming Hu</i>	

Determination of effective ICA components and selection of the optimal frequency band based on resting-state fMRI	903
<i>Jing Li, Panfeng Wang</i>	
Edge-Cloud Collaborative Audiovisual System: Mechatronic Design, Theoretical Modeling, and Trusted Evidence	907
<i>Hao Yu, Penghe Zhang, Cong Wang, Kehan Chen, Zhongqiang Wu</i>	
SCAS-Det: A Lightweight Spatial-Channel Reconstruction and Dual-Attention-Enhanced Real-Time Object Detector for Autonomous Driving	912
<i>Tingye Cai</i>	
A Miniaturized Wideband Circularly Polarized Slot Antenna with Directional Radiation for UWB Applications	918
<i>Junlong Li, Minhua Lin, Guogang Huang, Dong Zhong</i>	
Improved YOLOv11-Seg for Multimodal Dynamic Fusion Segmentation of Vehicle Door Gaps in RGB-D Images*	922
<i>Xingyan Sun, Jinyi Li, Tingting Wang, Shengxin Su</i>	
Adaptive SRv6 Routing and Load Balancing Mechanism for Elastic Task Scheduling in AI Computing Centers	927
<i>Jianing Niu, Zhidong Wu, Longchuan Yan, Jun Liu</i>	
A feasibility proportion based adaptive ranking method for constrained evolutionary optimization	931
<i>Qiang Gao, Chengyong Si, Lei Wang</i>	
CS-MSENet: Centered Linear Attention and Edge Enhancement for UAV Detection	935
<i>Haibo Wang, Qingsong Meng, Lixin Qiao</i>	
A High-Risk Prediction Method for Coal Mine Fires Incorporating Path-Coupled Features	939
<i>Wenjing Yu, Yong Qin</i>	
Drug Adverse Reaction Prediction Method Based on Reliable Negative Samples and Multi-Feature Fusion	945
<i>Boyang Zhao, Xueying Wang</i>	
ELE-DETR: An Improved RT-DETR for Precise Power Line Component Identification	949
<i>Lijia Liu, Quanwen Fu</i>	
A Neighborhood Correction Method for Shape from Focus Based on Spatial Consistency	953
<i>Zhiguang Wang, Weiyang Piao, Chunxue Wang, Yongqi Han, Daifa Song, Yuxinyue Zhu</i>	
Research on a Lightweight Dorsal Hand Vein Recognition Method Based on an Improved MobileNetV2	958
<i>Lei Xu, Xuhui Zhang, Jiabin Li, Lanlan Ren</i>	
A Multi-Module Fusion and Triple-Redundancy Check Framework for Embedded Personal Safety Terminals	963
<i>Yongtao Zheng, Yukai Jiang, Jihua Li, Cheng Yao, Qingqing Zhou, Wenjie Huang</i>	
CNA Detector: Robust Object Detection of Electrical Instrument Readings	967
<i>Yufan Li</i>	

Dynamic Neural Network Guided Adaptive PSO Resource Collaborative Orchestration Algorithm for Space-Ground Integrated Network	971
<i>Guijun Bai, Youxia Yang, Chuan Shan, Youlong Jing, Dongbin Xue, Shuai Ma</i>	
DualRateECGNet: Multi-Rate Latent State Estimation for Contactless ECG Reconstruction from mmWave Radar	979
<i>Meiyue Diao, Hengrong Cui</i>	
A Feature-Attentive GATv2 Framework for Drug-Drug Interaction Prediction	983
<i>Wenjie Tang, He Zhou, Kang Wang, Zirui Zhang</i>	
Enhancing Single Image Dehazing via Cross-Spatial Frequency Collaboration	987
<i>Yan Li, Xiaochuan Li, Yujing He, Bing Zhang</i>	
Substation switch status recognition based on the lightweight version of YOLOv8	992
<i>You Fu, Chenguang Wang, Heyu Rong</i>	
Intelligent Detection of Bolt Looseness in 1000 kV GIS Basin Insulators Based on Acoustoelastic Effect and 1D-CNN	996
<i>Mingzhi Peng, Dong Hu, Yao Xu, Yongbo Hu</i>	
A 4-Channel Transceiver Signal Processing Architecture for Wideband SAR Systems	1001
<i>Shijie Rong, Xiaoying Gu, Xiaoming Li, Huihui Yin, Chao Li</i>	
An SE-ResNet-Based Method for Switchgear Partial Discharge Pattern Recognition	1005
<i>Feng Xue, Yingxiong Leng, Xiaoji Guo, Qingbo Zhang</i>	
PRIME: Position-Constrained Rule Mining for Unknown Protocol Feature Extraction	1009
<i>Hongxiu Yang, Xinghai Yang, Xiaofan He, Kaixiang Jiang, Zhongxing Zhang, Zehua Du</i>	
Protocol message clustering method integrating a sequence mining mechanism	1013
<i>Zihe Ren, Xinghai Yang, Kaixiang Jiang, Jianlin Fu, Yinghang Zhan, Tianchang Zhang</i>	
Research on the 3D Reconstruction Technology for Electrical Capacitance Tomography Based on Double-chain Quantum Genetic Algorithm	1018
<i>Zhaohui Wei, Junling Wang, Donghui Li, Yan Li, Xiaochuan Li, Junjie Ouyang</i>	
Research on Intelligent Assessment Method for Transmission Line Icing Based on Multi-source Data Fusion	1023
<i>Hui Zhang, Jincan Lin, Yi Zheng, Jianxu Yang, Yu Li, Kangwei Chen</i>	
Enhancing SSD Endurance via ReRead-GC for Balanced Wear Leveling and Reduced Write Amplification	1027
<i>Chenyuan Wang, Meizhou Gao, Tai Guo, Dapeng Sun, Junpeng Fan</i>	
A Novel Artificial Life Algorithm with Sensitivity Analysis for 3D Path Planning in Complex Dynamic Environments	1032
<i>Yuqian Jiang</i>	
Embedding-Free Image Steganography Based on Diffusion Models	1036
<i>Meiqi Liu</i>	
Improved ECC Algorithm Based on Dynamic Base Point and Dynamic Private Key and Its Application in Remote Capacity Verification Communication in Substations	1042
<i>Yunchen Xu, Zonghe Ding, Ling Chen, Liming Chang</i>	

Intelligent Fine-Grained Classification and Severity Assessment of Wind Turbine Blade Faults Based on YOLOv11+HPA-Biformer	1047
<i>Qunhao Zhou, Chuanbo Wen</i>	
Modeling and Optimization of Indoor Millimeter-Wave Wireless Channels Based on the Electromagnetic Wave Scattering Matrix	1052
<i>Yuan Zhang</i>	
Building Extraction from Remote Sensing Images Based on a Boundary-Aware Deformable Convolution Feature Fusion Network	1056
<i>Dongmei Wang, Rui Feng, Yang Wu, Jingyi Lu, Peng Wang</i>	
Unsteady Motion Parameter Extraction for Shipborne High-Frequency Surface Wave Radar Using Distributed Reference Sources	1060
<i>Yuze Wang, Yuhan Xia, Ruizhe Zhou, Xianzhou Yi</i>	
An Improved Multi-Target Tracking Algorithm for Intelligent Transportation Perception Based on Adaptive Association and Trajectory Smoothing	1065
<i>Ru-Ping Li, Fang-Sheng Wu, Dong-Dong Shi</i>	
Design and Implementation of an Indoor AR Intelligent Navigation System with Real World Feasibility Verification	1069
<i>Xianyun Liu, Yongxin Xiao</i>	
Multi-Modal Entity Set Expansion for Chinese MOOCs via Contrastive Learning	1074
<i>Qikai Zhu, Yubin Chen, Jing Wan</i>	
Research on PCB Defect Detection Algorithm Based on YOLOv5	1078
<i>Lu Gao, Kim Young Chul</i>	
A Lightweight Target Detection Model Based on Star-option	1082
<i>Ang Ji</i>	
Intelligent Terminal Test Report Automation and LLM-based Intelligent Root Cause Analysis Solution	1088
<i>Zhurong Wu, Jiatai Wu, Hao Meng</i>	
An Improved Hiking Optimization Algorithm	1093
<i>Guanhao Fu, Zhengxiang Wang</i>	
A Semantic Alignment-Enhanced Framework for Zero-Shot Relation Extraction	1097
<i>Qihui Bai, Ruishen Liu, Xiangfeng Luo</i>	
Fatigued Driving Detection Algorithm Based on Improved YOLOv8	1102
<i>Ya Wen, Qiang Zhang</i>	
RDB-MTL: A Parameter-Efficient Architecture for End-to-End Trustworthiness in 6G Service Chains	1107
<i>Yuanyuan Zi, Tianyi Geng, Changyu Li, Xinli Zhou</i>	
BHNet: A Dual-Branch Network for Water-Surface Obstacle Segmentation	1111
<i>Kunpeng Zhe</i>	
Accuracy-First Improved YOLOv8 for Industrial Fastener Detection on MVTec Screws	1115
<i>Mingdi Wu</i>	

Resource Allocation for UAV Communications with Massive MIMO	1119
<i>Nuo Chen, Jianwei Zhao, Fang He, Haojie Hu, Fenggan Zhang, Wei Jin</i>	
YOLO-CBA: A Robust and Lightweight Detector for Student Behavior Analysis in Smart Classrooms	1124
<i>Qingze Chen, Zhiyong Zhang, Shanru Lin, Shimiao Cheng</i>	
Sound Event Classification with CNN-Transformer and Diffusion Model Based Data Augmentation	1128
<i>Ziyi Liu, Xichang Cai, Wenkai Liu, Menglong Wu</i>	
A Low-Complexity Two-Stage Robust Beamforming Scheme for ISAC Systems with Imperfect CSI	1132
<i>Xiaodong Zhao, Menglong Wu</i>	
LSTD-Detect: LSTM-Based Telemetry Anomaly Detection with Non-Parametric Dynamic Thresholding for Spacecraft Health Monitoring	1136
<i>Gao Deng</i>	
TREE-HV: Ensemble Tree Regression with SHAP-Driven Interpretability for Remaining Life Prediction of High-Voltage Power Transformers	1143
<i>Xinyue Yang</i>	
Cross-Scale Generalization in Multi-Agent Reinforcement Learning via Hierarchical Parallel Attention	1149
<i>Shiwei Li, Xiangfeng Luo, Shaorong Xie</i>	
Delay-Superimposed Discrete Frequency-Shift Repeater Jamming Against Radar CFAR Detectors	1154
<i>Jiaqiang Zhu, Kai Xie</i>	
Few-Shot Learning-Driven Weedy Rice Segmentation for Precision Herbicide Prescription Map Generation	1160
<i>Peilin Li, Yang Lu, Hanbo Wang, Fei Li, Chao Li, Wenhe Li</i>	
CNN-BiLSTM-Attention: A Hybrid Deep Learning Framework with Adaptive Feature Weighting for Transmission Line Fault Diagnosis	1170
<i>Zijun Gao</i>	
An Exploratory Graph-Temporal Framework for Network Traffic Prediction	1174
<i>Jinliang Yuan, Yu Yang, Mingqi Wang</i>	
Interpretable Fault Prediction for Industrial IoT Using a Lightweight Bidirectional LSTM	1182
<i>Zhihui Ran</i>	
Context-Aware Token Preference Optimization for Hallucination Mitigation	1190
<i>Junping Cao, Hongxing Xia</i>	
SemCompress: Semantic-Aware Adaptive DocString Compression for Code Generation	1195
<i>Yiheng Shen, Hongxing Xia, Jing Qiu</i>	
Hierarchical Frequency-domain Enhanced Multi-scale Fusion and Refinement Network for High-Precision Concealed Defect Detection	1200
<i>Yingqi Wang, Li Yang, Yingbo Song, Cong Zhang, Hongbo Bi</i>	
A Fault Zero Moment Location Method Based on Discrete Wavelet Transform	1204
<i>Zhiqiang Liu, Chuangang Zhao, Songgui Zhang, Liyao Ma</i>	
Apple Grading Based on Bagging Ensemble of Ordinal Evidential Neural Network	1208
<i>Yiyang Wang, Wenxiao Guan, Shuhui Bi, Liyao Ma</i>	

MSA-CongNet: Multi-Scale Attention with Noise-Aware Regularization for VLSI Congestion Prediction	1212
<i>Ziyan Qu, Yuxiang Liu, Wenjun Zhu, Zheng kang Zhu</i>	
TopoFlow-Lane: Topology-Aware Conditional Flow Matching for Remote Sensing Lane Extraction	1216
<i>Qiangba Gesang, Wangjiu Gaqing, Yaojun An, Sang Luo, Dunzhu Danzeng, Wei Dai</i>	
Fault Diagnosis of Transformer Fastening Bolts via VMD-Enhanced Physics-Informed Features and a Dual-Stream Attention Fusion Network	1220
<i>Yujie Hu, Shenglong Zhu, Cheng Zhao, Shaolei Wu, Min Pan, Zhengkai Zhang, Jingjie Wang</i>	
AQL-YOLO:Lightweight Perception-Enhanced Underwater Detection	1226
<i>Yuanjie Zhang, Zhiyong Tao</i>	
CoG ² RH-LLM: A Geometric Graph Attention Framework for Faithful Knowledge-Grounded Dialogue Generation	1232
<i>Yuxuan Li, Xinzhi Wang, Ruishen Liu, Mingxuan Wang, Xiangfeng Luo</i>	
ProtocolFuzz-Agents: Multi-Agent Semantic Fuzzing and State-Aware Exploitation Discovery for Unknown Network Protocols	1238
<i>Haozhe Zhou, Hang Lei, Feng Hong, Yuegang Pu, Nan Deng, Tao Li, Maolin Yang</i>	
Lightweight Decision-Level Fusion for Suppressing False Acceptance in Real-Time Open-Set Face Recognition	1250
<i>Xiangxiu Chen, Chaoqun Li, Feiyu Zhao, Jiguang Lv</i>	
Multimodal Model Based on Contrastive Language-Image Pretraining for Micro-Expression Recognition	1255
<i>Peng Yang, Yanyang Zhou, Qilin Wei, Zhifeng Zeng</i>	
CR-LLM: Candidate Filtering and Rule-Constrained Large Language Models for Document-Level Relation Extraction	1263
<i>Junhao Shi, Xiangfeng Luo</i>	
Preserving What, Removing Where: Dual-Stream Beneficial Feature Pre-Debiasing for HOI Detection	1269
<i>Fang Li, Lihua Zhang</i>	
Attention-Aware Deep Joint Source-Channel Coding for Robust Power Grid Inspection Image Transmission	1277
<i>Haifan Wang, Changzhi Han, Xiaoqiang Shi, Yongzhe Zhang, Xinyun Zhu, Huabo Wu, Run Xu</i>	
SYNE: A Biologically-Inspired Decision Neural Network via Stochastic Delay Differential Equations	1283
<i>Langhua Ju, Xinling Zhang</i>	
Anomaly Detection for Lithium-Ion Batteries via Spatiotemporal Feature Fusion and Probabilistic Forecasting	1287
<i>Xu Zhou, Jianfeng Qu</i>	
A Bus Planning Method with Via-Avoidance in Channel Region for Flexible Printed Circuit	1292
<i>Chenxi Qian, Haoying Wu</i>	