

Contents

Vol. 67 No. 7 July 2024

Special Topic: XAI-Enabled Network Automation for 5G and Beyond: Move Closer to Zero-Touch

Scenarios analysis and performance assessment of blockchain integrated in 6G scenarios	170301(22)
Bo LI, Guanjie CHENG, Honghao GAO, Xueqiang YAN & Shuiguang DENG	
Explainable-AI-based two-stage solution for WSN object localization using zero-touch mobile transceivers	170302(19)
Kai FANG, Junxin CHEN, Han ZHU, Thippa Reddy GADEKALLU, Xiaoping WU & Wei WANG	
XRL-SHAP-Cache: an explainable reinforcement learning approach for intelligent edge service caching in content delivery networks.....	170303(26)
Xiaolong XU, Fan WU, Muhammad BILAL, Xiaoyu XIA, Wanchun DOU, Lina YAO & Weiyi ZHONG	
HEN: a novel hybrid explainable neural network based framework for robust network intrusion detection.....	170304(19)
Wei WEI, Sijin CHEN, Heshi WANG, Jing LIU, Zhongyao CHENG & Xiaofeng ZOU	
Path signature-based XAI-enabled network time series classification	170305(16)
Le SUN, Yueyuan WANG, Yongjun REN & Feng XIA	
Adaptive 5G-and-beyond network-enabled interpretable federated learning enhanced by neuroevolution.....	170306(26)
Bin CAO, Jianwei ZHAO, Xin LIU & Yun LI	

REVIEW

Learning in games: a systematic review.....	171101(27)
Rong-Jun QIN & Yang YU	

RESEARCH PAPER

Re-quantization based binary graph neural networks	172101(12)
Kai-Lang YAO & Wu-Jun LI	
Blockchain-based immunization against kleptographic attacks	172102(12)
Changsong JIANG, Chunxiang XU, Jie CHEN & Kefei CHEN	
Rethinking attribute localization for zero-shot learning	172103(13)
Shuhuang CHEN, Shiming CHEN, Guo-Sen XIE, Xiangbo SHU, Xinge YOU & Xuelong LI	
Towards imbalanced motion: part-decoupling network for video portrait segmentation	172104(14)
Tianshu YU, Changqun XIA & Jia LI	
Stability analysis and stabilization of semi-Markov jump linear systems with unavailable sojourn-time information	172201(13)
Xiaotai WU, Yang TANG, Shuai MAO & Ying ZHAO	
Adaptive neural network control of a 2-DOF helicopter system considering input constraints and global prescribed performance	172202(16)
Zhijia ZHAO, Jiale WU, Zhijie LIU, We HE & C. L. Philip CHEN	
Ensemble successor representations for task generalization in offline-to-online reinforcement learning.....	172203(16)
Changhong WANG, Xudong YU, Chenjia BAI, Qiaosheng ZHANG & Zhen WANG	
Prescribed time control based on the periodic delayed sliding mode surface without singularities	172204(15)
Bin ZHOU, Yi DING, Kang-Kang ZHANG & Guang-Ren DUAN	
Distributed generalized Nash equilibrium seeking: event-triggered coding-decoding-based secure communication	172205(14)
Shaofu YANG, Wenyi XU, Wangli HE & Jinde CAO	
Continuous advantage learning for minimum-time trajectory planning of autonomous vehicles	172206(10)
Zhuo LI, Weiran WU, Jialin WANG, Gang WANG & Jian SUN	
Highly sensitive flexible strain sensor based on the two-dimensional semiconductor tellurium with a negative gauge factor.....	172401(10)
Jiarui HE, Yusong QU, Shengyao CHEN, Cong WANG, Lena DU, Xiaoshan DU, Yuanyuan ZHENG, Guozhong ZHAO & He TIAN	

POSITION PAPER

Shor's algorithm does not factor large integers in the presence of noise	173501(16)
Jin-Yi CAI	

MOOP

Formation adaptation in obstacle-cluttered environments via MPC-based trajectory planning	174201(3)
Yuda CHEN & Zhongkui LI	

PERSPECTIVE

- Spiking neural networks in intelligent control systems: a perspective 176201(3)
Anguo ZHANG & Yongduan SONG

LETTER

- Multi-path navigation method using solar panel-reflected solar oscillations for Earth satellites 179201(2)
Yuqing YANG, Haonan YANG, Xiaolin NING, Weiren WU & Jiancheng FANG
- A unified intelligent control strategy synthesizing multi-constrained guidance and avoidance penetration 179202(2)
Sibo ZHAO, Jianwen ZHU, Weimin BAO & Xiaoping LI
- An ensemble and cost-sensitive learning-based root cause diagnosis scheme for wireless networks with spatially imbalanced user data distribution 179301(2)
Qi WANG, Zhiwen PAN & Nan LIU
- Channel modeling for MI-based wireless underground sensor networks with conductive objects 179302(2)
Shuhua DENG, Guanghua LIU, Ziwei CHEN, Huaijin ZHANG & Tao JIANG
- Integrated optical frequency transfer and optical physical layer key distribution with enhanced link reciprocity detection 179303(2)
Kunfeng XIE, Liang HU, Jianping CHEN & Guiling WU
- A dual-band wireless communication of spoof plasmonic meta-waveguide 179304(2)
Xinxin GAO, Geng-Bo WU, Ze GU, Qian MA, Wenyi CUI, Tiejun CUI & Chihou CHAN
- Design of double photograph LDPC codes based JSCC systems via the ACE-PEG algorithm 179305(2)
Yijie LV, Jiguang HE & Shaohua HONG
- A 26.5–29.5-GHz Doherty PA with enhanced linearity and efficiency based on adaptive bias circuit for 5G MIMO arrays 179401(2)
Long WANG, Jixin CHEN, Debin HOU, Xiaojie XU & Wei HONG
- A wide load-range OTA using a digitally assisted compensating technique 179402(2)
Haolin HAN, Shubin LIU, Yi SHEN, Hongzhi LIANG, Yue CAO, Longjie ZHONG & Zhangming ZHU
- Efficient implementation of majority-inverter graph logic and arithmetic functions with memristor arrays 179403(2)
Zhouchao GAN, Dongdong ZHANG, Chenyu ZHANG, Yinghao MA, Xiangshui MIAO & Xingsheng WANG

Information for authors

SCIENCE CHINA Information Sciences (Sci China Inf Sci), cosponsored by the Chinese Academy of Sciences and the National Natural Science Foundation of China, and published by Science China Press, is committed to publishing high-quality, original results of both basic and applied research in all areas of information sciences, including computer science and technology, control science and engineering, information and communication engineering, microelectronics and solid state electronics, etc. *Sci China Inf Sci* is indexed in Science Citation Index Expanded (SCIE), Engineering Index (EI), Journal Citation Reports/Science Edition (JCR), Academic OneFile, Astrophysics Data System (ADS), CSA, Cabells, Current Contents/Engineering, Computing and Technology, DBLP, Digital Mathematics Registry, Earthquake Engineering Abstracts, Engineered Materials Abstracts, Gale, Google, INSPEC, Mathematical Reviews, OCLC, ProQuest, SCOPUS, Summon by Serial Solutions, VINITI. *Sci China Inf Sci* is published monthly in both print and electronic forms.

Authors are recommended to use *Science China's* online submission services. To submit a manuscript, please go to www.scichina.com, create an account to log in <http://mc03.manuscriptcentral.com/scis>, and follow the instructions there to upload text and image/table files.

All submissions will be reviewed by referees selected by the editorial board. The decision of acceptance or rejection of a manuscript is made by the editorial board based on the referees' reports. The entire review process may take 90 to 120 days, and the editorial office will inform the author of the decision as soon as the process is completed. If the editorial board fails to make a decision within 90 days, please contact the editorial office.

Authors should guarantee that their submitted manuscript has not been published before and has not been submitted elsewhere for print or electronic publication consideration. Submission of a manuscript is taken to imply that all the named authors are aware that they are listed as coauthors, and they have agreed on the submitted version of the paper. No change in the order of listed authors can be made without an agreement signed by all the authors.

Ethical responsibilities of authors: Authors should refrain from misrepresenting research results which could damage the trust in the journal and ultimately the entire scientific endeavour, and follow the COPE guidelines on how to deal with potential acts of misconduct.

Disclosure of potential conflict of interests: Authors must disclose all relationships or interests that could influence or bias the work. The corresponding author will include a summary statement in the text of the manuscript in a separate section before the reference list.

Once a manuscript is accepted, the authors should send a copyright transfer form signed by all authors to Science China Press. Authors of one published paper will be presented one sample copy. If more sample copies or offprints are required, please contact the managing editor and pay the extra fee. The full text opens free to domestic readers at www.scichina.com, and is available to overseas readers at link.springer.com.