

Special Focus on Visual Computing with Machine Learning

Single-view facial reflectance inference with a differentiable renderer	210101(17)
Jiahao GENG, Yanlin WENG, Lvdi WANG & Kun ZHOU	
Dual attention autoencoder for all-weather outdoor lighting estimation	210102(14)
Piaopiao YU, Jie GUO, Longhai WU, Cheng ZHOU, Mengtian LI, Chenchen WANG & Yanwen GUO	
Weakly supervised 2D human pose transfer	210103(16)
Qian ZHENG, Yajie LIU, Zhizhao LIN, Dani LISCHINSKI, Daniel COHEN-OR & Hui HUANG	
iHairRecolorer: deep image-to-video hair color transfer	210104(15)
Keyu WU, Lingchen YANG, Hongbo FU & Youyi ZHENG	
Hausdorff point convolution with geometric priors	210105(13)
Liqiang LIN, Pengdi HUANG, Fuyou XUE, Kai XU, Daniel COHEN-OR & Hui HUANG	

RESEARCH PAPER

A nearly optimal distributed algorithm for computing the weighted girth	212101(15)
Qiang-Sheng HUA, Lixiang QIAN, Dongxiao YU, Xuanhua SHI & Hai JIN	
Representation learning on textual network with personalized PageRank	212102(10)
Teng LI & Yong DOU	
Learning dynamics of kernel-based deep neural networks in manifolds	212103(15)
Wei WU, Xiaoyuan JING, Wencai DU & Guoliang CHEN	
Sampling informative context nodes for network embedding	212104(11)
Danhao ZHU, Xin-Yu DAI, Jiajun CHEN & Jie YIN	
State and tendency: an empirical study of deep learning question&answer topics on Stack Overflow	212105(23)
Henghui ZHAO, Yanhui LI, Fanwei LIU, Xiaoyuan XIE & Lin CHEN	
Fixed-time attitude tracking control for spacecraft based on a fixed-time extended state observer	212201(17)
Lijun ZHANG, Yuanqing XIA, Ganghui SHEN & Bing CUI	
Distributed multilane merging for connected autonomous vehicle platooning	212202(16)
Jingkai WU, Yafei WANG, Zhaokun SHEN, Lin WANG, Haiping DU & Chengliang YIN	
Secure polar coding for a joint source-channel model	212301(20)
Haowei WANG, Xiaofeng TAO, Huici WU, Na LI & Jin XU	
Self-interference cancellation for cooperative jamming communications with nonideal alignment and channel equalization	212302(9)
Wenbo GUO, Yimin HE, Hongzhi ZHAO, Shihai SHAO & Youxi TANG	
Extended scintillation phase gradient autofocus in future spaceborne P-band SAR mission	212303(17)
Yifei JI, Zhen DONG, Yongsheng ZHANG, Qilei ZHANG & Baidong YAO	

NEWS & VIEWS

A multiplexed quantum repeater based on absorptive quantum memories	217501(1)
Zhengwei ZHOU	

LETTER

Locally differentially private distributed algorithms for set intersection and union	219101(3)
Qiao XUE, Youwen ZHU, Jian WANG, Xingxin LI & Ji ZHANG	
Adaptive compensation for time-varying uncertainties in model-based control of lower-limb exoskeleton systems	219201(3)
Guangkui SONG, Rui HUANG, Hong CHENG, Jing QIU & Shuai FAN	
Additive-state-decomposition-based station-keeping control for autonomous aerial refueling	219202(3)
Jinrui REN, Quan QUAN, Haibiao MA & Kai-Yuan CAI	
Center tracking for healthy and diseased cardia	219203(2)
Baiquan SU, Yunlai TENG, Zehao WANG, Yida HU, Shaolong KUANG, Ye WANG, Tingting ZHANG, Jie TANG, Wei YAO & Ye ZONG	

OFF-grid full-dimension channel estimation for mmWave/THz systems with angular block prior.....	219301(2)
Hongyun CHU, Wei FENG, Maoqi LI, Zhichao ZHU & Guilu WU	
An iterative BiGAMP-based receiver for coded massive MIMO systems with low-resolution ADCs	219302(2)
Yi SUN, Ming JIANG & Chunming ZHAO	
Two dimensional sparse signal reconstruction via 2D inverse-free sparse Bayesian learning	219303(2)
Shuanghui ZHANG, Yongxiang LIU & Xiang LI	
Design of a high-performance 12T SRAM cell for single event upset tolerance.....	219401(2)
Chunhua QI, Yanqing ZHANG, Guoliang MA, Chaoming LIU, Tianqi WANG, Liyi XIAO, Mingxue HUO & Guofu ZHAI	
Investigation of weight updating modes on oxide-based resistive switching memory synapse towards neuromorphic computing applications	219402(2)
Qingting DING, Tiancheng GONG, Jie YU, Xiaoxin XU, Xiaoyan LI, Hangbing LV, Jianguo YANG, Qing LUO, Peng YUAN, Feng ZHANG & Ming LIU	
A unified hybrid compact model of β -Ga ₂ O ₃ Schottky barrier diodes for mixer and rectifier applications	219403(2)
Kai ZHOU, Qiming HE, Guangzhong JIAN, Guangwei XU, Feihong WU, Yao LI, Zhuangzhuang HU, Qian FENG, Xiaolong ZHAO & Shibing LONG	
A physics-based electromigration reliability model for interconnects lifetime prediction	219404(2)
Linlin CAI, Wangyong CHEN, Jinfeng KANG, Gang DU, Xiaoyan LIU & Xing ZHANG	

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.