

Contents

Vol. 63 No. 4 April 2020

Special Focus on Deep Learning in Remote Sensing Image Processing

Special focus on deep learning in remote sensing image processing	140300(2)
Feng XU, Cheng HU, Jun LI, Antonio PLAZA & Mihai DATCU	
Spatio-temporal fusion for remote sensing data: an overview and new benchmark	140301(17)
Jun LI, Yunfei LI, Lin HE, Jin CHEN & Antonio PLAZA	
A new sensor bias-driven spatio-temporal fusion model based on convolutional neural networks.....	140302(16)
Yunfei LI, Jun LI, Lin HE, Jin CHEN & Antonio PLAZA	
FUSAR-Ship: building a high-resolution SAR-AIS matchup dataset of Gaofen-3 for ship detection and recognition.....	140303(19)
Xiyue HOU, Wei AO, Qian SONG, Jian LAI, Haipeng WANG & Feng XU	
Deep-learning-based extraction of the animal migration patterns from weather radar images.....	140304(10)
Kai CUI, Cheng HU, Rui WANG, Yi SUI, Huafeng MAO & Huayu LI	
Hybrid first and second order attention Unet for building segmentation in remote sensing images	140305(12)
Nanjun HE, Leyuan FANG & Antonio PLAZA	
Cascade conditional generative adversarial nets for spatial-spectral hyperspectral sample generation	140306(16)
Xiaobo LIU, Yulin QIAO, Yonghua XIONG, Zhihua CAI & Peng LIU	
Deep feature extraction and motion representation for satellite video scene classification	140307(15)
Yanfeng GU, Huan LIU, Tengfei WANG, Shengyang LI & Guoming GAO	

Special Focus on Internet of Minds

Network for hypersonic UCAV swarms	140311(28)
Shixun LUO, Zhongshan ZHANG, Shuai WANG, Shuo ZHANG, Jibo DAI, Xiangyuan BU & Jianping AN	
Leader-following flocking for unmanned aerial vehicle swarm with distributed topology control.....	140312(14)
Chao LIU, Meng WANG, Qian ZENG & Wei HUANGFU	
Joint time delay and energy optimization with intelligent overclocking in edge computing.....	140313(16)
Kehao WANG, Zhenhua XIONG, Lin CHEN, Pan ZHOU & Hyundong SHIN	

Special Focus on Exploring the Far Side of the Moon — the Preliminary Data From Chang'e-4 Mission

Landing site topographic mapping and rover localization for Chang'e-4 mission.....	140901(12)
Zhaolin LIU, Kaichang DI, Jian LI, Jianfeng XIE, Xiaofeng CUI, Luhua XI, Wenhui WAN, Man PENG, Bin LIU, Yixin WANG, Sheng GOU, Zongyu YUE, Tianyi YU, Lichun LI, Jia WANG, Chuankai LIU, Xin XIN, Mengna JIA, Zheng BO, Jia LIU, Runzhi WANG, Shengli NIU, Kuan ZHANG, Yi YOU, Bing LIU & Jiangang LIU	
Petrography and chronology of lunar meteorite Northwest Africa 6950	140902(13)
Zemin BAO, Yuruo SHI, J. Lawford ANDERSON, Allen KENNEDY, Zuokai KE, Xiangping GU, Peizhi WANG, Xiaochao CHE, Yuelan KANG, Huiyi SUN & Chen WANG	
Mineralogy of Chang'e-4 landing site: preliminary results of visible and near-infrared imaging spectrometer	140903(12)
Jian CHEN, Zongcheng LING, Le QIAO, Zhiping HE, Rui XU, Lingzhi SUN, Jiang ZHANG, Bo LI, Xiaohui FU, Changqing LIU & Xiaobin QI	

RESEARCH PAPER

Prophet model and Gaussian process regression based user traffic prediction in wireless networks	142301(8)
Yu LI, Ziang MA, Zhiwen PAN, Nan LIU & Xiaohu YOU	

LETTER

Inferring explicit and implicit social ties simultaneously in mobile social networks.....	149101(3)
Guojie SONG, Yuanhao LI, Junshan WANG & Lun DU	
Simplified outlier detection for improving the robustness of a fuzzy model.....	149201(3)
Yali JIN, Weihua CAO, Min WU & Yan YUAN	
Consensus-based distributed power control in power grids.....	149202(3)
Li YAN, Weisheng CHEN, Chenxi LI, Hao DAI, Xiaojun ZHU & Zhongxue GAN	
A new stabilizing method for linear aperiodic sampled-data systems with time delay inputs and uncertainties	149203(3)
Shuangshuang GAO, Xiu YOU, Xinchun JIA & Weiwei MA	
Sliding-mode-disturbance-observer-based adaptive neural control of uncertain discrete-time systems	149204(3)
Shuyi SHAO & Mou CHEN	
Multi-rate principal component regression model for soft sensor application in industrial processes	149205(3)
Le ZHOU, Yaxin WANG & Zhiqiang GE	
On the parity-check matrix of generalized concatenated code	149301(3)
Sha SHI, Yang LIU, Junzhi YAN, Jingliang GAO & Yunjiang WANG	
Joint SAR imaging and wireless communication using the FBMC chirp waveform	149302(3)
Kehong ZHU, Jie WANG, Xingdong LIANG, Longyong CHEN, Yanlei LI, Xiangxi BU & Yirong WU	
Secure routing and transmission scheme for space-ocean broadband wireless network.....	149303(3)
Yuzhou FU, Chuan-Ao JIANG, Yurong QIN & Liuguo YIN	
Secure analysis over generalized-K channels.....	149304(3)
Luyao ZHANG, Hui ZHAO, Gaofeng PAN, Liang YANG & Jiawei CHEN	
Complementary tunneling transistors based on WSe ₂ /SnS ₂ van der Waals heterostructure	149401(3)
Rundong JIA, Liang CHEN, Qianqian HUANG & Ru HUANG	
A digital signal processor (DSP)-based system for embedded continuous-time cuffless blood pressure monitoring using single-channel PPG signal.....	149402(3)
Qirui ZHANG, Qingsong XIE, Kefeng DUAN, Bo LIANG, Min WANG & Guoxing 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 published monthly in both print and electronic forms.

Review (20 printed pages on average) surveys representative results and important advances on well-identified topics, with analyses and insightful views on the states of the art and highlights on future research directions.

Research Paper (no more than 15 printed pages) presents new and original results and significant developments in all areas of information sciences for broad readership.

MOOP (Multimedia Open Online Paper, with multimedia material) presents novel ideas, original research results, and significant developments in all areas of information sciences for broad readership.

Letter (no more than 3 printed pages) addresses issues of general interest with opinions or technical problems of research and development with solutions.

Sci China Inf Sci is now published under a brand new Continuous Article Publishing (CAP) workflow. That is, articles are published directly on line, together with complete publishing information concerning page, issue, volume and DOI.

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.

Authors are encouraged to submit such accompanying materials as short statements on the research background and area/subareas and significance of the work, and brief introductions to the first and corresponding authors including their mailing addresses with post codes, telephone numbers, fax numbers, and email addresses. Authors may also suggest several qualified experts (with full names, affiliations, phone numbers, fax numbers, and email addresses) as referees, and/or request the exclusion of some specific individuals from potential referees.

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.

Abstracted/Index 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.