

**REVIEW**

Vision, application scenarios, and key technology trends for 6G mobile communications.....151301(27)  
Zhiqin WANG, Ying DU, Kejun WEI, Kaifeng HAN, Xiaoyan XU, Guiming WEI, Wen TONG, Peiying ZHU, Jianglei MA,  
Jun WANG, Guangjian WANG, Xueqiang YAN, Jiyang XIANG, He HUANG, Ruyue LI, Xinhui WANG, Yingmin WANG,  
Shaohui SUN, Shiqiang SUO, Qiubin GAO & Xin SU

**RESEARCH PAPER**

Efficient distributed algorithms for holistic aggregation functions on random regular graphs.....152101(19)  
Lin JIA, Qiang-Sheng HUA, Haoqiang FAN, Qiuping WANG & Hai JIN

Learning hyperspectral images from RGB images via a coarse-to-fine CNN.....152102(14)  
Shaohui MEI, Yunhao GENG, Junhui HOU & Qian DU

A fully-customized dataflow engine for 3D earthquake simulation with a complex topography.....152103(16)  
Bingwei CHEN, Haohuan FU, Wayne LUK & Guangwen YANG

Deepwalk-aware graph convolutional networks .....152104(15)  
Taisong JIN, Huaqiang DAI, Liujuan CAO, Baochang ZHANG, Feiyue HUANG, Yue GAO & Rongrong JI

Incomplete multi-view clustering via local and global co-regularization.....152105(16)  
Jiye LIANG, Xiaolin LIU, Liang BAI, Fuyuan CAO & Dianhui WANG

Labrador: towards fair and auditable data sharing in cloud computing with long-term privacy .....152106(14)  
Xiaojie GUO, Jin LI, Zheli LIU, Yu WEI, Xiao ZHANG & Changyu DONG

A two-level scheme for multiobjective multidebris active removal mission planning in low Earth orbits .....152201(16)  
Jianan YANG, Xiaolei HOU, Yong LIU, Yuheng HU & Quan PAN

Noncertainty-equivalent observer-based noncooperative target tracking control for unmanned aerial vehicles .....152202(15)  
Kenan YONG, Mou CHEN & Qingxian WU

Minimal observability of Boolean networks .....152203(12)  
Yang LIU, Jie ZHONG, Daniel W. C. HO & Weihua GUI

Joint optimization of spectral efficiency and energy efficiency with low-precision ADCs in cell-free massive MIMO systems.....152301(15)  
Han WANG, Chang SUN, Jiamin LI, Pengcheng ZHU, Dongming WANG & Xiaohu YOU

Blind adaptive identification and equalization using bias-compensated NLMS methods .....152302(12)  
Zhen ZHANG, Lijuan JIA, Ran TAO & Yue WANG

Density-based user clustering in downlink NOMA systems .....152303( 9 )  
Hanliang YOU, Yaoyue HU, Zhiwen PAN & Nan LIU

Lattice-based group encryptions with only one trapdoor.....152304(18)  
Jing PAN, Jiang ZHANG, Fangguo ZHANG, Xiaofeng CHEN & Willy SUSILO

Range-angle-dependent beamforming for FDA-MIMO radar using oblique projection .....152305(19)  
Lan LAN, Guisheng LIAO, Jingwei XU, Shengqi ZHU & Yuhong ZHANG

Generalized message passing detection of SCMA systems based on dynamic factor graph for better and flexible  
performance-complexity tradeoff.....152306( 8 )  
Fangqi DONG, Huijuan ZHENG, Lei MA & Sheng TONG

**POSITION PAPER**

Towards trustworthy blockchain systems in the era of “Internet of value”: development, challenges, and future trends .....153101(11)  
Hai JIN & Jiang XIAO

**MOOP**

Target tracking algorithm based on a broad learning system .....154201( 3 )  
Dan ZHANG, Tieshan LI, C. L. Philip CHEN & He YANG

**PERSPECTIVE**

Development paradigms of cyberspace endogenous safety and security .....156301( 3 )  
Jiangxing WU

## LETTER

Pseudorandom number generator based on supersingular elliptic curve isogenies.....	159101( 3 )
Yan HUANG, Fangguo ZHANG, Zhijie LIU & Haibo TIAN	
Forward and backward secure searchable encryption with multi-keyword search and result verification.....	159102( 3 )
Jie CUI, Yue SUN, Yan XU, Miaomiao TIAN & Hong ZHONG	
Generalizing Lyubashevsky-Wichs trapdoor sampler for NTRU lattices .....	159103( 3 )
Yang TAO, Yunfeng JI & Rui ZHANG	
A new current sensor incipient fault diagnosis method for converters in wind energy conversion systems.....	159201( 2 )
Songbing TAO, Youqiang HU, Shuiqing XU, Yi CHAI & Ke ZHANG	
Exponential stabilization of an ODE system with Euler-Bernoulli beam actuator dynamics.....	159202( 2 )
Xiao-Hui WU & Hongyinping FENG	
A novel deep quality-supervised regularized autoencoder model for quality-relevant fault detection.....	159203( 3 )
Zhichao LI, Li TIAN & Xuefeng YAN	
Beam alignment for millimeter wave multiuser MIMO systems using sparse-graph codes.....	159301( 2 )
Long CHENG, Guangrong YUE, Pei XIAO, Ning WEI & Shaoqian LI	
Fast ambiguous DOA elimination method of DOA measurement for hybrid massive MIMO receiver .....	159302( 2 )
Baihua SHI, Xinyi JIANG, Nuo CHEN, Yin TENG, Jinhui LU, Feng SHU, Jun ZOU, Jun LI & Jiangzhou WANG	
Constant modulus sequence set design with low weighted integrated sidelobe level in spectrally crowded environments .....	159303( 2 )
Yi BU, Hui QIU, Tao FAN, Xianxiang YU, Guolong CUI & Lingjiang KONG	
Error exponent for concatenated codes in DNA data storage under substitution errors .....	159304( 2 )
Yuxuan SHI, Shuo SHAO, Xiaohang ZHANG, Yongjian WANG & Yongpeng WU	

## 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](http://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](http://www.scichina.com), and is available to overseas readers at [link.springer.com](http://link.springer.com).