SCIENCE CHINA
Information Sciences

Contents

Vol. 60 No. 4 April 2017

Special Focus on Mobile Network Virtualization

Recent advances and future challenges for mobile network virtualization .....040301(12)
Xiaofeng TAO, Yan HAN, Xiaodong XU, Ping ZHANG & Victor C.M. LEUNG
VNF-FG design and VNF placement for 5G mobile networks .....040302(15)
Jiuyue CAO, Yan ZHANG, Wei AN, Xin CHEN, Jiyan SUN & Yanni HAN
Towards win-win: weighted-Voronoi-diagram based channel quantization for security enhancement in downlink cloud-RAN with limited CSI feedback .....040303(17)
Dongyang XU, Pinyi REN, Qinghe DU, Li SUN & Yichen WANG
Storage and computing resource enabled joint virtual resource allocation with QoS guarantee in mobile networks .....040304(11)
Xiaodong XU, Jiaxiang LIU, Wenwan CHEN, Yanzhao HOU & Xiaofeng TAO
A resilient trust management scheme for defending against reputation time-varying attacks based on BETA distribution .....040305(11)
Weidong FANG, Wuxiong ZHANG, Yang YANG, Yang LIU & Wei CHEN
Energy consumption optimization-based joint route selection and flow allocation algorithm for software-defined networking.....040306(14)
Rong CHAI, Haipeng LI, Feiying MENG & Qianbin CHEN
Quantum entropy based tabu search algorithm for energy saving in SDWN.....040307(16)
Chaowei WANG, Wuyang MEI, Xiangying QIN & Weidong WANG
A model for virtual network embedding across multiple infrastructure providers using genetic algorithm .....040308(12)
Isha PATHAK & Deo Prakash VIDYARTHI

RESEARCH PAPER

Iterative spherical simplex unscented particle filter for CNS/Redshift integrated navigation system.....042201(11)
Kui FU, Guangqiong ZHAO, Xiajing LI, Zhong-Liang TANG & Wei HE
A hybrid multiple copy routing algorithm in space delay-tolerant networks .....042301(11)
Peng WAN, Shi CHEN, Tao YU & Zhongjie HUA
Resource allocation for pilot-assisted massive MIMO transmission.....042302(13)
Yun XUE, Jun ZHANG & Xiqi GAO
Energy-aware deployment of dense heterogeneous cellular networks with QoS constraints .....042303(18)
Qimei CUI, Zhiyan CUI, Wei ZHENG, Riku JÄNTTI & Weiliang XIE
Improving DFA attacks on AES with unknown and random faults .....042401(14)
Nan LIAO, Xiaoxin CUI, Kai LIAO, Tian WANG, Dunshan YU & Xiaole CUI
An electrical-coupling-suppressing MEMS gyroscope with feed-forward coupling compensation and scalable fuzzy control .....042402(11)
Chunhua HE, Jimeng ZHANG, Qiancheng ZHAO, Qinwen HUANG, Zhenchuan YANG, Dacheng ZHANG & Guizhen YAN
A 5.8 GHz class-AB power amplifier with 25.4 dBm saturation power and 29.7% PAE .....042403(5)
Chuan QIN, Lei ZHANG, Li ZHANG, Yan WANG & Zhiping YU
HAS QoE prediction based on dynamic video features with data mining in LTE network.....042404(14)
Fei WANG, Zesong FEI*, Jing WANG, Yifan LIU & Zhikun WU
Non-binary entanglement-assisted quantum stabilizer codes .....042501(14)
Lan LUO, Zhi MA, Zhengchao WEI & Riguang LENG

MOOP

A networked remote sensing system for on-road vehicle emission monitoring.....043201(8)
Yu KANG, Yan DING, Zerui LI, Yang CAO & Yunbo ZHAO

HIGHLIGHT

Collaborative representation Bayesian face recognition.....048101(3)
Jufu FENG, Xiao MA & Wenjing ZHUANG
Low-cost design of stealthy hardware trojan for bit-level fault attacks on block ciphers.....048102(3)
Fan ZHANG, Xinjie ZHAO, Wei HE, Shivam BHASIN & Shize GUO
Mixed H_-/H_∞ fault detection filter design for the dynamics of high speed train .....048201(3)
Weiqi BAI, Xiuming YAO, Hairong DONG & Xue LIN

LETTER

A random linear code based secure transmission scheme for wireless fading channels .....049301(3)
Lukman A. OLAWOYIN, Nana ZHANG, A. O. OLOYEDE, Nasir FARUK & Hongwen YANG
General, practical, and accurate models for the performance analysis of cache cascades .....049302(3)
Haoqiu HUANG, Lanlan RU, Weiwei ZHENG, Danmei NIU & Xuesong QIU