## Contents

**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-PG design and VNF placement for 5G mobile networks ........................................................................ 040301 (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 LI, 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, Feiyong MENG & Qianbin CHEN
- Quantum entropy based tabu search algorithm for energy saving in SDN ........................................................................ 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, Xiaojing 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)
  - Yan 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 JÄNTTIl & WeiWang XIE
- Improving DFA attacks on AES with unknown and random faults ........................................................................ 042401 (14)
  - Nan LIAO, Xiaoxing 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, Jieying 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 (11)
  - Chun QIN, Lei ZHANG, Li ZHANG, Yan WANG & Zhiguo YU
- HAS QoE prediction based on dynamic video features with data mining in LTE network ............................................ 042404 (14)
  - Fei WANG, Zeqong FEI*, Jing WANG, Yifan LIU & Zhikun WU
- Non-binary entanglement-assisted quantum stabilizer codes ..................................................................................... 042501 (14)
  - Lan LIOO, 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 \( H_\infty \) fault detection filter design for the dynamics of high speed train ....................................................... 048201 (3)
  - Weiqi BAI, Xiuning 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)
  - Haoqi HUANG, Lanlan RU, Weikei ZHENG, Danmei NIU & Xuesong QIU