

REVIEW

- Survey on applications of algebraic state space theory of logical systems to finite state machines111201(20)
Yongyi YAN, Daizhan CHENG, Jun-E FENG, Haitao LI & Jumei YUE

RESEARCH PAPER

- Locally differentially private high-dimensional data synthesis112101(18)
Xue CHEN, Cheng WANG, Qing YANG, Teng HU & Changjun JIANG
- Design of a prediction system based on the dynamical feed-forward neural network112102(17)
Xiaoxiang GUO, Weimin HAN & Jingli REN
- Cluster-preserving sampling algorithm for large-scale graphs112103(17)
Jianpeng ZHANG, Hongchang CHEN, Dingjiu YU, Yulong PEI & Yingjun DENG
- LPW: an efficient data-aware cache replacement strategy for Apache Spark112104(20)
Hui LI, Shuping JI, Hua ZHONG, Wei WANG, Lijie XU, Zhen TANG, Jun WEI & Tao HUANG
- Transaction transmission model for blockchain channels based on non-cooperative games112105(18)
Peiyun ZHANG, Chenxi LI, Mengchu ZHOU, Wenjun HUANG, Abdullah ABUSORRAH & Omairah O. BAMASAG
- Model-guided 3D stitching for augmented virtual environment112106(16)
Zhong ZHOU, Ming MENG, Yi ZHOU, Zhe ZHU & Jingdi YOU
- On learning the right attention point for feature enhancement112107(13)
Liqiang LIN, Pengdi HUANG, Chi-Wing FU, Kai XU, Hao ZHANG & Hui HUANG
- An energy constraint position-based dynamics with corrected SPH kernel112108(14)
Wei CAO, Luan LYU, Zhixin YANG & Enhua WU
- Fully actuated system approaches for continuous-time delay systems: part 1. Systems with state delays only112201(30)
Guangren DUAN
- Pattern-based learning and control of nonlinear pure-feedback systems with prescribed performance112202(22)
Fukai ZHANG, Weiming WU & Cong WANG
- Interval stability/stabilization of impulsive positive systems112203(14)
Xuezhen WANG, Huasheng ZHANG, Jianwei XIA, Wei SUN & Guangming ZHUANG
- System identification under saturated precise or set-valued measurements112204(20)
Yanlong ZHAO, Hang ZHANG, Ting WANG & Guolian KANG
- Toward the minimum vertex cover of complex networks using distributed potential games112205(20)
Jie CHEN & Xiang LI
- Geometric constraints based 3D reconstruction method of tomographic SAR for buildings112301(13)
Dong HAN, Zekun JIAO, Liangjiang ZHOU, Chibiao DING & Yirong WU
- A nonprofiled side-channel analysis based on variational lower bound related to mutual information112302(19)
Chi ZHANG, Xiangjun LU, Pei CAO, Dawu GU, Zheng GUO & Sen XU

PROGRESS

- Ultra-wideband fiber-THz-fiber seamless integration communication system toward 6G: architecture, key techniques, and testbed implementation113301(18)
Min ZHU, Jiao ZHANG, Bingchang HUA, Mingzheng LEI, Yuancheng CAI, Liang TIAN, Dongming WANG, Wei XU, Chuan ZHANG, Yongming HUANG, Jianjun YU & Xiaohu YOU

NEWS & VIEWS

- Hetu: a highly efficient automatic parallel distributed deep learning system117101(2)
Xupeng MIAO, Xiaonan NIE, Hailin ZHANG, Tong ZHAO & Bin CUI

LETTER

- Image co-segmentation based on pyramid features cross-correlation network119101(2)
Jia CHEN, Yasong CHEN, Weihao LI, Zhi LIU, Sannyuya LIU & Zongkai YANG
- TinyDet: accurately detecting small objects within 1 GFLOPs119102(2)
Shaoyu CHEN, Tianheng CHENG, Jiemin FANG, Qian ZHANG, Yuan LI, Wenyu LIU & Xinggang WANG
- Learning cross-modal interaction for RGB-T tracking119103(2)
Chunyan XU, Zhen CUI, Chaoqun WANG, Chuanwei ZHOU & Jian YANG
- BiTGAN: bilateral generative adversarial networks for Chinese ink wash painting style transfer119104(2)
Xiao HE, Mingrui ZHU, Nannan WANG, Xiaoyu WANG & Xinbo GAO
- Unpaired remote sensing image super-resolution with content-preserving weak supervision neural network119105(2)
Jie WU, Runmin CONG, Leyuan FANG, Chunle GUO, Bob ZHANG & Pedram GHAMISI
- Global output feedback adaptive stabilization for systems with long uncertain input delay119201(2)
Zhuping WANG, Jingcheng LIU, Chao HUANG, Hao ZHANG & Huaicheng YAN
- Performance-guaranteed adaptive fault-tolerant tracking control of six-DOF spacecraft119202(2)
Kewei XIA & Yao ZOU
- A novel frequency-dependent hysteresis model based on improved neural Turing machine119203(2)
Yinan WU, Yongchun FANG, Zhi FAN & Cunhuan LIU
- Compensation of uncertain linear actuator dynamics for a class of cascaded PDE-ODE systems119204(2)
Jian LI & Yungang LIU
- Obstacle avoidance in human-robot cooperative transportation with force constraint119205(2)
Ying ZHANG, Chenguang YANG, Sheng XU & Yongsheng OU