

目 次

先进计算与新兴软件专题

前言..... 449
 金海
数据流芯片的发展现状、趋势与挑战..... 452
 冷静文, 过敏意, 曾德泽, 蒋文斌, 叶笑春, 陈华曦, 李文明
人机物融合泛在应用的系统支撑..... 464
 曹云帆, 赵超懿, 刘瀚之, 王加益, 王慧妍, 余萍, 曹春, 许畅, 马晓星, 蒋炎岩
面向服务器无感知计算的定制函数调度..... 481
 张信民, 李星儒, 樊浩, 黄卓, 吴松, 姚德中, 金海, 余辰
面向自主计算的存算传融合架构及技术挑战..... 500
 张珊, 李响, 李西烁, 王志远, 罗洪斌
云边融合安全存储架构及技术挑战..... 516
 李经纬, 孙嘉, 杨劲远, 沈志荣, 杨浩淼, 方华, 陈厅, 张小松
云边协同下基于 SGX 的云数据安全去重方法..... 528
 卜时磊, 谢雨来, 曹周, 王杰, 郑俊, 冯丹
面向海量数据的高效流水线化检索增强生成系统..... 542
 余润杰, 阳羽凡, 周健, 吴非

论文

开源社区拉取请求与问题的链接建立方法..... 559
 蒋竞, 季陈虹, 苗萌, 张莉
基于 Krotov 方法的 Markov 跳变双线性系统最优跟踪控制及应用..... 582
 刘越, 周平, 孙霄阳
基于影响力函数的自适应鲁棒卡尔曼滤波..... 601
 薛为, 栾小丽, 赵顺毅, 刘飞
窃听攻击下基于传感器传输策略的信息物理系统隐私保护..... 619
 金增旺, 刘奕彤, 刁靖东, 王震, 孙长银, 刘志强
动态捷变全息 MIMO: 自由度、分集增益和阵列增益分析..... 639
 白家乐, 王慧明, 金梁, 楼洋明
基于信息熵的数据元件信息计量——以数据定价及其电能统计应用分析为例..... 654
 陶晓明, 彭劼扬, 王钺, 王有政, 胡成盛, 陆志鹏

Contents

Special Topic: Advanced Computing and Emerging Software

Preface.....	449
Hai JIN	
Dataflow microprocessor: development, trends, and challenges.....	452
Jingwen LENG, Minyi GUO, Deze ZENG, Wenbin JIANG, Xiaochun YE, Huaxi CHEN & Wenming LI	
System support for ubiquitous human-cyber-physical fusion applications	464
Yunfan CAO, Chaoyi ZHAO, Hanzhi LIU, Jiayi WANG, Huiyan WANG, Ping YU, Chun CAO, Chang XU, Xiaoxing MA & Yanyan JIANG	
Customizable function scheduling for serverless computing.....	481
Xinmin ZHANG, Xingru LI, Hao FAN, Zhuo HUANG, Song WU, Dezhong YAO, Hai JIN & Chen YU	
Cache-computation-transmission integration for automatic computing: architecture and technology challenges.....	500
Shan ZHANG, Xiang LI, Xishuo LI, Zhiyuan WANG & Hongbin LUO	
Cloud-edge integrated secure storage architecture and technical challenges	516
Jingwei LI, Jia SUN, Jingyuan YANG, Zhirong SHEN, Haomiao YANG, Hua FANG, Ting CHEN & Xiaosong ZHANG	
A secure cloud data deduplication method based on SGX under cloud-edge collaboration	528
Shilei BU, Yulai XIE, Zhou CAO, Jie WANG, Jun ZHENG & Dan FENG	
Efficient pipeline for retrieval-augmented generation system under big data	542
Runjie YU, Yufan YANG, Jian ZHOU & Fei WU	
RESEARCH PAPER	
A link establishment method between pull requests and issues in open source community	559
Jing JIANG, Chenhong JI, Meng MIAO & Li ZHANG	
Optimal tracking control of Markov jump bilinear system based on Krotov's method and its application	582
Yue LIU, Ping ZHOU & Xiaoyang SUN	
An adaptive robust Kalman filter based on influence function.....	601
Wei XUE, Xiaoli LUAN, Shunyi ZHAO & Fei LIU	
Privacy protection of cyber-physical system under eavesdropping attack based on sensor-based transmission strategy	619
Zengwang JIN, Yitong LIU, Jingdong DIAO, Zhen WANG, Changyin SUN & Zhiqiang LIU	
Dynamic agile reconfigurable holographic MIMO: DoF, diversity gain, and array gain analysis	639
Jiale BAI, Hui-Ming WANG, Liang JIN & Yangming LOU	
Information metrics for data components based on information entropy: data pricing and its application analysis for electric energy statistics.....	654
Xiaoming TAO, Jieyang PENG, Yue WANG, Youzheng WANG, Chengsheng HU & Zhipeng LU	