## Contents

SCMKV: A Lightweight Log-Structured Key-Value Store on SCM .......................... 1  
*Zhenjie Wang, Linpeng Huang, and Yanmin Zhu*

Adaptive Length Sliding Window-Based Network Coding for Energy  
Efficient Algorithm in MANETs ................................................................. 13  
*Baolin Sun, Chao Gui, Ying Song, and Hua Chen*

A Virtual Machine Migration Algorithm Based on Group Selection  
in Cloud Data Center .............................................................. 24  
*Zhen Guo, Wenbin Yao, and Dongbin Wang*

Two-Stage Job Scheduling Model Based on Revenues and Resources .......... 37  
*Yuliang Shi, Dong Liu, Jing Hu, and Jianlin Zhang*

TCon: A Transparent Congestion Control Deployment Platform  
for Optimizing WAN Transfers .............................................................. 49  
*Yuxiang Zhang, Lin Cui, Fung Po Tso, Quanlong Guan, and Weijia Jia*

Regional Congestion Mitigation in Lossless Datacenter Networks .......... 62  
*Xiaoli Liu, Fan Yang, Yanan Jin, Zhan Wang, Zheng Cao,  
and Ninghui Sun*

A Fast and Accurate Way for API Network Construction Based  
on Semantic Similarity and Community Detection ..................................... 75  
*Xi Yang and Jian Cao*

Improving Branch Prediction for Thread Migration  
on Multi-core Architectures ................................................................. 87  
*Tan Zhang, Chaobing Zhou, Libo Huang, Nong Xiao, and Sheng Ma*

Optimizing OpenCL Implementation of Deep Convolutional Neural  
Network on FPGA ........................................................................... 100  
*Yuran Qiao, Junzhong Shen, Dafei Huang, Qianming Yang, Mei Wen,  
and Chunyuan Zhang*

ACO-inspired ICN Routing Scheme with Density-Based  
Spatial Clustering ............................................................................ 112  
*Jianhui Lv, Xingwei Wang, and Min Huang*