

# Contents

## Mobile Computing

A Distributed Approach Based on Hierarchical Scalar Leader Selection for Enhanced Event Coverage in Wireless Multimedia Sensor Networks . . . .	3
<i>Sushree Bibhuprada B. Priyadarshini and Suvasini Panigrahi</i>	
Gathering Multiple Robots in a Ring and an Infinite Grid . . . . .	15
<i>Durjoy Dutta, Tandrima Dey, and Sruti Gan Chaudhuri</i>	
WiFi-Related Energy Consumption Analysis of Mobile Devices in a Walkable Area by Abstract Interpretation. . . . .	27
<i>Enrico Eugenio and Agostino Cortesi</i>	

## Analytics

A Collision of Beliefs: Investigating Linguistic Features for Religious Conflicts Identification on Tumblr. . . . .	43
<i>Swati Agarwal and Ashish Sureka</i>	
Scalable IQRA_IG Algorithm: An Iterative MapReduce Approach for Reduct Computation. . . . .	58
<i>P.S.V.S. Sai Prasad, H. Bala Subrahmanyam, and Praveen Kumar Singh</i>	
Simulation of MapReduce Across Geographically Distributed Datacentres Using CloudSim . . . . .	70
<i>D.S. Jayalakshmi and R. Srinivasan</i>	

## Distributed Computing

Revamping the Frequency and Computational Time of RTOS Task – Power Dissipation. . . . .	85
<i>Sharma Saravanan and Sameera Shaik</i>	
CO <sub>2</sub> Penalty and Disaster Aware Data Center and Service Placement for Cost Minimization . . . . .	94
<i>Rishi Sharma, Ranu Vikram, Bala Prakasa Rao Killi, and Seela Veerabhadreswara Rao</i>	

**Virtual Machines**

PMM: A Novel Prediction Based VM Migration Scheme in Cloud Computing . . . . .	107
<i>Srimoyee Bhattacharjee, Uttiya Sarkar, Sunirmal Khatua, and Sarbani Roy</i>	
Bid Selection for Deadline Constrained Jobs over Spot VMs in Computational Cloud. . . . .	118
<i>Sharmistha Mandal, Sunirmal Khatua, and Rajib K. Das</i>	
An Efficient Request-Based Virtual Machine Placement Algorithm for Cloud Computing. . . . .	129
<i>Sanjaya K. Panda and Prasanta K. Jana</i>	

**Access Control**

An Efficient Framework for Verifiable Access Control Based Dynamic Data Updates in Public Cloud. . . . .	147
<i>S. Sabitha and M.S. Rajasree</i>	
Analyzing Protocol Security Through Information-Flow Control . . . . .	159
<i>N.V. Narendra Kumar and R.K. Shyamasundar</i>	
Efficient Image Authentication Scheme Using Genetic Algorithms . . . . .	172
<i>Arjun Londhey and Manik Lal Das</i>	

**Security and Privacy**

Dynamic Labelling to Enforce Conformance of Cross Domain Security/Privacy Policies . . . . .	183
<i>N.V. Narendra Kumar and R.K. Shyamasundar</i>	
Privacy Preserving Signcryption Scheme . . . . .	196
<i>Payal Chaudhari and Manik Lal Das</i>	
MalCrawler: A Crawler for Seeking and Crawling Malicious Websites . . . . .	210
<i>A.K. Singh and Navneet Goyal</i>	

**Poster Papers**

Spying Mobrob: Innovative Mobile Number Tracking System . . . . .	227
<i>Sayar Kumar Dey, Prerna Choudhary, and Günter Fahrnberger</i>	

A Domain Specific Language for Clustering. . . . .	231
<i>Saiyedul Islam, Sundar Balasubramaniam, Poonam Goyal, Mohit Sati, and Navneet Goyal</i>	
Designing a Secure Data Retrieval Strategy Using NoSQL Database . . . . .	235
<i>Sayantani Saha, Tanusree Parbat, and Sarmistha Neogy</i>	
<b>Author Index</b> . . . . .	239

Distributed Computing and Internet Technology  
13th International Conference, ICDCIT 2017,  
Bhubaneswar, India, January 13-16, 2017, Proceedings  
Krishnan, P.; Radha Krishna, P.; Parida, L. (Eds.)  
2017, XIX, 239 p. 87 illus., Softcover  
ISBN: 978-3-319-50471-1