

2014 IEEE International Conference on Cloud Computing in Emerging Markets

(CCEM 2014)

**Bangalore, India
15-17 October 2014**



**IEEE Catalog Number: CFP14CCM-POD
ISBN: 978-1-4799-6142-9**

Table of Contents

A Cloud-Based Collaborative Platform Supporting Serviced-Enhanced Products for Emerging Markets	1
<i>Bholanathsingh Surajbali, Adrian Juan-Verdejo, Spiros Alexakis, Holger Bar, and Markus Bauer</i>	
A Secure Mutual Authentication Protocol for Cloud Computing Using Secret Sharing and Steganography	9
<i>Mrudula Sarvabhatla, Giri Murugan, and Chandra Sekhar Vorugunti</i>	
Analyzing User Behavior Using KeyStroke Dynamics to Protect Cloud from Malicious Insiders	17
<i>Mahesh Babu Bondada and Mary Saira Bhanu S.</i>	
Autonomic Characterization of Workloads Using Workload Fingerprinting	25
<i>Rahul Khanna, Mrittika Ganguli, Ananth S. Narayan, Abhiram R., and Piyush Gupta</i>	
Cloudy with a Spot of Opportunity: Analysis of Spot-Priced VMs for Practical Job Scheduling	33
<i>Vedsar Kushwaha and Yogesh Simmhan</i>	
Contracts in Cloud Computing	41
<i>Irene Kafeza, Eleanna Kafeza, and Epameinondas Panas</i>	
SLA-aware Provisioning and Scheduling of Cloud Resources for Big Data Analytics	49
<i>Mohammed Alrokayan, Amir Vahid Dastjerdi, and Rajkumar Buyya</i>	
A Cloud Computing Service Level Agreement Framework with Negotiation and Secure Monitoring	57
<i>V. Binu and N. D. Gangadhar</i>	
A Hybrid Protocol to Secure the Cloud from Insider Threats	65
<i>Sriram M., Vaibhav Patel, Harishma D, and Nachammai Lakshmanan</i>	
A Novel Bio-Inspired Load Balancing of Virtual Machines in Cloud Environment	70
<i>Ashwin T. S., Shridhar G. Domanal, and Ram Mohana Reddy Guddeti</i>	
Achieving Energy Efficiency by Optimal Resource Utilization in Cloud Environment	74
<i>Devwrat More, Sanket Mehta, Pooja Pathak, Lokesh Walase, and Jibi Abraham</i>	
An Enhanced Cloud Computing Model for Patient Record Management in South Africa	82
<i>Richard Millham</i>	

Big Data Infrastructure for Aviation Data Analytics	87
<i>Anandavel Murugan, Dinkar Mylaraswamy, Brian Xu, and Paul Dietrich</i>	
Client Requirement Modeling Using Resource Broker Architecture in Cloud Computing Environment	93
<i>Chetan Awasthi and Priyesh Kanungo</i>	
Cloud Based Self Driving Cars	99
<i>Naveen S. Yeshodara, Nikhitha Kishore, and Namratha S. Nagojappa</i>	
Cloud Partner Selection Algorithm for Dynamic Cloud Collaboration	106
<i>Pramod Mane and Abhay Ratnaparkhi</i>	
Cloudifying Apps - A Study of Design and Architectural Considerations for Developing Cloud Enabled Applications with Case Study	110
<i>Narsimha Reddy Challa and Venkatesh Nuthula</i>	
DBMLE: Distance-Based Multi-Level Elliptic Routing Protocol for Ad hoc Networks	117
<i>Kevin Joy Dsouza and Sujatha M.</i>	
Experimental Comparison of Three Scheduling Algorithms for Energy Efficiency in Cloud Computing	122
<i>Sudhir Goyal, Seema Bawa, and Bhupinder Singh</i>	
MultiPaaS - PaaS on Multiple Clouds	128
<i>Shashank Sahni and Vasudeva Varma</i>	
Network Telemetry Anonymization for Cloud Based Security Analysis - Best Practices	134
<i>Sashank Dara</i>	
Outsourcing Resource-Intensive Tasks from Mobile Apps to Clouds: Android and Aneka Integration	141
<i>Tiago Justino and Rajkumar Buyya</i>	
Privacy Preserving Third Party Auditing in Multi Cloud Storage Environment	149
<i>M.S. Shashidhara and Jaini C. P.</i>	
Secure Data Mining in Cloud using Homomorphic Encryption	155
<i>Deepti Mittal, Damandeep Kaur, and Ashish Aggarwal</i>	
Towards Realizing the Secured Multilateral Co-operative Computing Architectural Framework	161
<i>Manu A. R., V K Agrawal, K N Balasubramanya Murthy, and Manoj Kumar M.</i>	
Author Index	175