

2017 International Conference on Next Generation Computing and Information Systems (ICNGCIS 2017)

**Jammu, India
11 – 12 December 2017**



**IEEE Catalog Number: CFP17O93-POD
ISBN: 978-1-5386-4206-1**

**Copyright © 2017 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP17O93-POD
ISBN (Print-On-Demand):	978-1-5386-4206-1
ISBN (Online):	978-1-5386-4205-4

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

2017 International Conference on Next Generation Computing and Information Systems

ICNGCIS 2017

Table of Contents

Message from the Chairs	viii
Conference Organization	ix
Program Committee	x

Session 1: Cloud Computing

Cloud Service Level Agreements – Issues and Development	1
<i>Isaac Odun-Ayo, Olasupo Ajayi, and Nicholas Omoregbe</i>	
A New Approach in Multi Cloud Environment to Improve Data Security	7
<i>G. Prabu Kanna and V. Vasudevan</i>	
A Classification Based Approach For Data Confidentiality in Cloud Environment	13
<i>Rasmeet Kour, Suparti Koul, and Manpreet Kour</i>	
A QoS-Based Reactive Auto Scaler for Cloud Environment	19
<i>Dhrub Kumar and Naveen Kumar Gondhi</i>	
Virtualization in Cloud Computing: Developments and Trends	24
<i>Isaac Odun-Ayo, Olasupo Ajayi, and Chinonso Okereke</i>	
An Overview of Data Storage in Cloud Computing	29
<i>Isaac Odun-Ayo, Olasupo Ajayi, Boladele Akanle, and Ravin Ahuja</i>	

Session 2: E-Learning & Knowledge Management

Ontology Based Informational Retrieval System on the Semantic Web: Semantic Web Mining	35
<i>Sunny Sharma, Arjun Kumar, and Vijay Rana</i>	
GNOSIS: Towards Automated Knowledge Management	38
<i>Ankur Gupta, Purnendu Prabhat, Rishi Gupta, Suhail Gulzar, and Deepika Kumari</i>	

Systematic Literature Review on Software Effort Estimation Using Machine Learning Approaches	43
<i>Pinkashia Sharma and Jaiteg Singh</i>	
Your Privacy is not so Private: Unveiling Android Apps Privacy Framework from the Dark	48
<i>Sumit Kumar and Ravi Shanker</i>	
Analysis of Stock Price Flow Based on Social Media Sentiments	54
<i>Nishant Suman, P K Gupta, and Pankaj Sharma</i>	
Recommendation for Learners in E-Learning System	58
<i>Kamika Chaudhary and Neena Gupta</i>	

Session 3: Big-Data and Block Chain

Next Generation Businesses to Embrace Big Data Analytics	64
<i>Niraj Kumar Vishvakarma, R.R.K. Sharma, and Kritika</i>	
A Probabilistic Analysis on Crypto-Currencies Based on Blockchain	69
<i>Meenakshi Bhat and Shafalika Vijayal</i>	
A Review on Job Scheduling for Hadoop Mapreduce	75
<i>Khushboo Kalia and Neeraj Gupta</i>	
A Comprehensive Study of Big Data Machine Learning Approaches and Challenges	80
<i>Neelam Singh, Devesh Pratap Singh, and Bhasker Pant</i>	
An Optimized Algorithm For Efficient Problem Solving In K-MEANS Clustering	86
<i>Salim Raza Qureshi, Sunali Mehta, and Chaahat Gupta</i>	
Blockchain-Based Resource Discovery for the Intercloud	92
<i>Mekhla Sharma, Ankur Gupta, and Jaiteg Singh</i>	

Session 4: Ubiquitous Computing & Networking

Lightweight Authentication Protocol for RFID Systems Using Syndrome Decoding	98
<i>Pramod Kumar Maurya, Joydeb Pal, and Satya Bagchi</i>	
Improved Wireless Sensor Network Lifetime by Fuzzy Logic Based Dynamic Clustering with Global Energy Balance	104
<i>Rohit Kumar and Sandeep Kad</i>	
Efficient Network Fault Detection Using Adaptive Polling	110
<i>Ankur Gupta and Purnendu Prabhat</i>	
A Comparative Analysis of Different QOS Strategies in OFDM Wireless Network	116
<i>Swati Rawat and Praveena Chaturvedi</i>	

Comprehensive Survey on Petya Ransomware Attack	122
<i>Jagmeet Singh Aidan, Harsh Kumar Verma, and Lalit Kumar Awasthi</i>	
IEEE 802.22 Standard for Regional Area Networks	126
<i>Sonakshi Gupta and Vani Malagar</i>	

Session 5: Mobile & Evolutionary Computing

Cloud Testing- The Future of Contemporary Software Testing	131
<i>Varsha Mittal, Lata Nautiyal, and Mohit Mittal</i>	
An Industrial Study on Developers' Prevalent Copy and Paste Activities	137
<i>Sarveshwar Bharti and Hardeep Singh</i>	
A Review Of D2D Communication With Game-Theoretic Resource Allocation Models	142
<i>Roopsi Rathi and Neeraj Gupta</i>	
Message Authentication System for Mobile Messaging Applications	147
<i>Ankur Gupta, Purnendu Prabhat, Rishi Gupta, Sumant Pangotra, and Suave Bajaj</i>	
Monitoring Health Care System Using Internet of Things - An Immaculate Pairing	153
<i>Veena Tripathi and Faizan Shakeel</i>	
Resolving Ambiguities in Named Entity Recognition Using Machine Learning	159
<i>Nitin Bhandari, Ritika Chowdri, Harmeet Singh, and Salim Raza Qureshi</i>	

Session 6: Miscellaneous

A Novel Approach to Clustering Algorithms and Their Comparative Performance Analysis on Different Data Set	164
<i>Manish Lamba, Sagarjit Dash, and Atul Singh Jamwal</i>	
Opportunities and Challenges of MOOCS: Perspectives from India	168
<i>Tariq Hussain Sheikh and Rachna Gupta</i>	
Predictive Analytics of Sensor Data Based on Supervised Machine Learning Algorithms	171
<i>Shreya Gupta, Mohit Mittal, and Anupama Padha</i>	
Systematic Literature Review of Data Quality Within OpenStreetMap	177
<i>Jasmeet Kaur, Jaiteg Singh, Sukhjit Singh Sehra, and Hardeep Singh Rai</i>	
Biometric Based User Authentication in Smart Phones	183
<i>Malika Verma, Radhike Sawhney, and Rashmi Chalia</i>	
Author Index	189