

**ITM UNIVERSITY**  
 Gwalior - MP - INDIA  
 "CELEBRATING DREAMS"

**20**  
 YEARS  
 CELEBRATING

Proceedings in  
 Springer **CCS**

**1<sup>ST</sup>** International Conference on  
**COMMUNICATION, NETWORKS & COMPUTING**  
**CNC-2018**  
 22-24 MARCH, 2018

In association with:

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING  
 SCHOOL OF ENGINEERING & TECHNOLOGY, ITM UNIVERSITY GWALIOR

**Thursday, 22 March 2018**

**Technical Session 1: Wired & Wireless Communication Systems**

| # | Paper ID | Author            | Paper Title  |
|---|----------|-------------------|--|
| 1 | 33       | V.D. Ambeth Kumar | IOT Based Smart Museum using Wearable Device   |
| 2 | 37       | A Murugan         | Parallel Zigzag Pattern with DNA Sequence and Morse Code for Cloud Data Storage Scheme |
| 3 | 47       | Shubhi Malhotra   | An Analysis on Improvement of Lifetime in Wireless Sensor Network                      |
| 4 | 83       | Nitish Andola     | A New Lightweight Approach for Multiuser Searchable Encryption in the Cloud            |
| 5 | 94       | Mathew George     | Secure Hash Based Architecture For Data Verification in Cloud                          |

**Technical Session 2: High Dimensional Data Representation & Processing**

| # | Paper ID | Author                | Paper Title   |
|---|----------|-----------------------|---|
| 1 | 38       | K Shyamala            | Sum-of-Subset Implementation Using Neural Selection Principle and Cognitive Process of Inhibition       |
| 2 | 42       | Manohar Vuppula       | Implementation of lossless Image compression analysis using PCLZ algorithm with multi-wavelet transform |
| 3 | 112      | Maulik Dhamecha       | Fundamental survey of Map reduce in Bigdata with Hadoop Environment                                     |
| 4 | 132      | Archana Tomar         | Improve Tampered Image Using Watermarking Apply The Distance Matrix                                     |
| 5 | 180      | Krishnavijay Tripathi | A Novel Approach for Image Fusion with Guided Filter based on Feature Transform                         |

**Technical Session 3: Networks and Information Security**

| # | Paper ID | Author                | Paper Title  |
|---|----------|-----------------------|--|
| 1 | 52       | Dr. T. Shanmuganatham | Y-Shaped Cantilever Beam RF MEMS Switch for Lower the Actuation Voltage  |
| 2 | 54       | Dr. T. Shanmuganatham | Design of Single Band Microstrip Antenna Using FSS   |
| 3 | 68       | Nannu Saheb           | Analysis Of Circular Ring Patch Antenna For Enhancement Of Wide Bandwidth With Defected Ground Structure             |
| 4 | 69       | Koteswara Rao         | Analysis of U Slotted Rectangular patch with Geometric series Defected Ground Structure for Triple Band Applications |
| 5 | 181      | Lokesh Krishna        | A 6-bit Low Power SAR ADC  |

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**Friday, 23 March 2018**

**Technical Session 1: Wired & Wireless Communication Systems**

| # | Paper ID | Author                   | Paper Title   |
|---|----------|--------------------------|---|
| 1 | 82       | Binod Kumar              | Frequency of meeting with and visit to physical location based on mobility pattern                  |
| 2 | 122      | Arun Agrawal             | Evaluation of Character Recognition Algorithm Based on Feature Extraction                           |
| 3 | 127      | Himanshu Singh Bhadouria | Accelerating Machine Learning Algorithms using HadoopCL   |
| 4 | 135      | Poonam Rathore           | Connectivity Analysis of Mobile Ad Hoc Network using Fuzzy Logic Controller                         |
| 5 | 151      | Mohit Kumar              | Mathematical Model for Sink Mobility (MMSM) in Wireless Sensor Networks to Improve Network Lifetime |
| 6 | 155      | Manoj Tyagi              | Effective Data Storage Security With Efficient Computing In Cloud                                   |

**Technical Session 4: Computing Techniques for Efficient Networks Design**

| # | Paper ID | Author                 | Paper Title  |
|---|----------|------------------------|--|
| 1 | 39       | K Shyamala             | Website Reorganization Based on Split Based Frequency Count and Fibonacci Heap     |
| 2 | 51       | Tanvir Rahman          | Prototype to Control a Robot by Android System Remote Controller                   |
| 3 | 72       | Purnendu Das           | Role of Cache Replacement Policies in High Performance Computing Systems: A Survey |
| 4 | 103      | Mohd Ali Ansari        | Review of Deep Learning Techniques for Object Detection and Classification         |
| 5 | 145      | Prashant Shukla        | An Interpretable SVM based model for cancer prediction in mammograms               |
| 6 | 149      | Jitendra Singh Kushwah | Caching Proposal Based on Least Recently Used Algorithm and AVL Tree               |

**Technical Session 5: Electronic Circuits for Communication Systems**

| # | Paper ID | Author            | Paper Title   |
|---|----------|-------------------|---|
| 1 | 86       | Vijay Kumar Yadav | Man In The Middle Attack On NTRU Key Exchange   |
| 2 | 108      | Bodhi Chakraborty | Information Theoretic Analysis of Privacy in a Multiple Query-Response Based Differentially Private Framework           |
| 3 | 117      | Anup Burange      | Security In MQTT and COAP Protocols of IOT's Application Layer  |
| 4 | 120      | Aman Sharma       | Forensic Analysis of a Virtual Android Phone  |
| 5 | 123      | Harshal Misalkar  | Implementation of Security Algorithm and Achieving Energy Efficiency for Increasing Lifetime of Wireless Sensor Network |
| 6 | 139      | Vishal Gupta      | Secure Portable Storage Drive   |

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**Friday, 23 March 2018**

**Technical Session 1: Wired & Wireless Communication Systems**

| # | Paper ID | Author               | Paper Title  |
|---|----------|----------------------|--|
| 1 | 110      | Guru Prasad Mishra   | Performance Evaluation of Multi-Functional Defected Ground Structure Embedded with Microstrip Patch Antenna for ISM Band Wireless Communications |
| 2 | 124      | Rajesh Akula         | A High Performance Bpsk Tran Receiver Using Level Converter For Communication Systems  |
| 3 | 136      | Bhairo Singh Rajawat | Improved election of Cluster Head using CH-PSO for Different Scenarios in VANET  |
| 4 | 154      | Prachi Sharma        | Detection of High Transmission Power Based Wormhole Attack Using Received Signal Strength Indicator (RSSI)                                       |
| 5 | 170      | Chandra Shekhar      | An Optimized High Gain Microstrip Patch Array Antenna for Sensor Networks  |
| 6 | 176      | Hitender Vats        | Lane Change In Roundabout For Reduced Trip Time  |

**Technical Session 4: Computing Techniques for Efficient Networks Design**

| # | Paper ID | Author          | Paper Title   |
|---|----------|-----------------|---|
| 1 | 30       | Silpa K S       | On using Midpoint Curves in Tangent Space for 2D curve approximation  |
| 2 | 31       | Raksha Pandey   | Grading and Defect Detection in Potatoes Using Deep Learning  |
| 3 | 58       | Jasvant Kumar   | Plain-wise Encryption Based Progressive Visual Cryptography for Gray Image  |
| 4 | 78       | Aayushi Agrawal | Edge Detection Techniques in Dental Radiographs (Sobel, T1FLS & IT2FLS)   |
| 5 | 147      | Arti Chaturvedi | DPVO: Design Pattern Detection Using Vertex Ordering Concept A Case Study in JHotDraw with Documentation to Enhance Reusability |
| 6 | 157      | Antra Purohit   | Optimal Low Rank Tensor Factorization for Deep Learning   |

**Technical Session 5: Electronic Circuits for Communication Systems**

| # | Paper ID | Author               | Paper Title   |
|---|----------|----------------------|---|
| 1 | 55       | T Shanmuganatham     | Design of Spider Shaped Microstrip Patch Antenna for IoT Application                    |
| 2 | 56       | T Shanmuganatham     | Design of Microstrip Polygon Shaped Patch Antenna for IoT Application                   |
| 3 | 57       | T Shanmuganatham     | A Novel Microstrip Patch Antenna with Single Elliptical CSRR for Multiband Applications |
| 4 | 105      | M A Mushahhid Majeed | Optimal Design of CMOS Amplifier Circuits Using Whale Optimization Algorithm            |
| 5 | 114      | Sandeep Gupta        | Sag Calculations in Transmission Line with Different Case Studies                       |
| 6 | 166      | Ritesh Kushwaha      | Dual Band Slotted Patch Microstrip Antenna Array Design for K Band Application          |

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**Saturday, 24 March 2018**

**Technical Session 1: Wired & Wireless Communication Systems**

| # | Paper ID | Author         | Paper Title  |
|---|----------|----------------|--|
| 1 | 46       | Abdus Samad    | Properties and Performance of Linearly Extensible Multiprocessor Interconnection Networks                    |
| 2 | 53       | Gagandeep Kaur | A Visualization based Approach for Detection of Anomalies in Network Traffic                                 |
| 3 | 67       | Bhushan Jadhav | A Novel Solution for Cloud enabled E-governance using Openstack: Opportunities and Challenges                |
| 4 | 146      | Kalpak Patil   | Utilizing Clustering Techniques for Improving the Boxplots   |
| 5 | 162      | Anu Khurana    | Privacy Preserving Multi Keyword Ranked Search with Context Sensitive Synonyms over the Encrypted Cloud Data |
| 6 | 173      | Ruchi Jain     | An Efficient Data Aggregation Algorithm with Gossiping for Smart Transportation System                       |

**Technical Session 4: Computing Techniques for Efficient Networks Design**

| # | Paper ID | Author            | Paper Title  |
|---|----------|-------------------|--|
| 1 | 34       | Krupali Mistry    | Rough Fuzzy Technique for Giant Cell Tumor Detection   |
| 2 | 48       | Lakshmi Napa      | Face Recognition in Surveillance Video for Criminal Investigations: a Review   |
| 3 | 61       | Saurabh Gupta     | An Advanced Throttled (ATH) Algorithm and its Performance Analysis with different variants of Cloud Computing Load Balancing Algorithm |
| 4 | 116      | Anshu Chaturvedi  | Improved Symmetric Key Technique using Randomization   |
| 5 | 150      | Ashima Elhence    | Intelligent Aggregation for Ensemble LSTM  |
| 6 | 161      | Monika Rani Golla | Performance Evaluation of Facenet on Low Resolution Face Images  |
| 7 | 177      | Anil Kewat        | Performance analysis of Naive Bayes Computing Algorithm for Blood Donors Classification Problem  |

**Technical Session 5: Electronic Circuits for Communication Systems**

| # | Paper ID | Author             | Paper Title  |
|---|----------|--------------------|--|
| 1 | 17       | Guru Prasad Mishra | Compact Defected Ground Structure Integrated Microstrip Patch Antenna and Array with low Mutual Coupling for 2.4 GHz RF Front-End Applications |
| 2 | 21       | S. R. Mansore      | Design of a Single-Ended 8T SRAM Cell for Low Power Applications   |
| 3 | 70       | Nannu Saheb        | Concentric Circular Ring Arc antenna at dual band for Ku band Applications   |
| 4 | 71       | Ashok Kumar        | A Dual Band Coplanar Concentric Ring Patch Antenna For Ku Band Applications  |
| 5 | 90       | Bhalaji Natarajan  | A Novel Approach towards Enhancing the Performance of Trust Based RPL Protocol in Internet of Things   |
| 6 | 113      | Seelam V Sai       | Reliability Analysis of Comparator: NBTI, PBTI, HCI, AGEING  |