Springer 5th International Conference on Computing Science, Communication and Security (COMS2)

6th -7th February 2024

http://coms2.gnu.ac.in/

Draft Version – Minute to Minute Proposed Program Schedule

(Online Virtual Conference through Zoom Meeting)

https://zoom.us/j/95175790644?pwd=dzR5Qi9MVzVEb1lJSHZhZXNXcElUdz09

Passcode: 248802

Day 1: Tuesday, 6th February 2024

Time	Session
09:30 A.M. IST- 10:00 A.M. IST (GMT + 5:30 Hours)	Overall Anchor – by **Prof. Dipali Dave**, *Assistant Professor, AMPICS, Ganpat University* **National Anthem** Welcome Address by: **Dr. Satyen Parikh**, *Executive Dean, Faculty of Computer Application, Ganpat University and General Chair-COMS2 (4 Minute)* Opening Remarks by: **Dr. Mahendra Sharma,** *Pro Chancellor and Director General, Ganpat University, India (4 Minute)* Address by Chief Guest: **Dr. Neeli Prasad,** *Founder and Chief Executive Officer of SMARTAVATAR B.V., Netherlands/USA (05 Minute)* Presidential Address: **Dr. Ganpatbhai I. Patel,** *Padmashri, President & Patron in Chief, Ganpat University, India (05 Minute)* Vote of thanks by **Dr. Nirbhay Chaubey**, Organising Chair, COMS2- *Dean, Faculty of Computer Application, Ganpat University, India*
10:00 A.M. IST - 10:50 A.M. IST (GMT + 5:30 Hours)	**Eminent Guest Plenary Session Talk 1:** The Human-AI Collaboration: Navigating the Ethical and Digital Privacy Challenges of the Digital Age Speaker: **Dr. Neeli Prasad,** *Founder and Chief Executive Officer of SMARTAVATAR B.V., Netherlands/USA* Vote of thanks by **Dr. Kiran Amin,** *Executive Dean, Faculty of Engineering and Technology, Ganpat University, India and* Organising Chair, COMS2
10:50 A.M. IST - 11:40 A.M. IST (GMT + 5:30 Hours)	**Eminent Guest Plenary Session Talk 2:** Research Directions in Artificial Intelligence Speaker: **Dr. Ketan Kotecha**, *Professor & Director, Symbiosis Institute of Technology, Pune, India* Vote of thanks by **Dr. Rakesh Vanzara,** *Dean, Faculty of Engineering and Technology, , Ganpat University, India*

ORAL PAPER PRESENTATION
Track: Network and Communication-1

Session Chairs

Dr. Savita Gandhi, Dean of Computer Science, and IT, GLS University, Ahmedabad, Gujarat, India

Dr. Maulika Patel, Professor of CSE, CVM University, Vallabh Vidyangar, Gujarat, India

Dr. Snehal Joshi, Dean of Computer Science, Veer Narmad South Gujarat University, Gujarat, India

Dr. Kiran Amin, Executive Dean, Faculty of Engineering and Technology, Ganpat University, Gujarat, India

Dr. Satyen Parikh, Executive Dean, Faculty of Computer Application, Ganpat University, Gujarat, India

Timing	Paper Title
11:40 A.M. -12:00 P.M. (GMT + 5:30 Hours)	Paper id 209 Energy and Trust Aware Cluster-based Routing in WSN via Self-Improved Beluga Whale Optimization
12:00 P.M. -12:20 P.M. (GMT + 5:30 Hours)	Paper id 219 ENHANCEMENT IN AOMDV ROUTING PROTOCOL TO OVERCOME CONGESTION PROBLEM IN MANET
12:20 P.M.- 12:40 P.M. (GMT + 5:30 Hours)	Paper id 507 Traveler's Demand Reactive Dynamic Online Bus Routing to Improvise Comfort Perception in Intelligent Public Transport System
12:40 P.M. TO 1:30 P.M. - BREAK	
01:30 P.M.- 01:50 P.M. (GMT + 5:30 Hours)	Paper id 283 A Decentralised Application for Medical Insurance Claim System using Blockchain Technology
01:50 P.M. -02:10 P.M. (GMT + 5:30 Hours)	Paper id 297 Intelligent Agent based Clustering and Optimal Multipath Routing for Energy-Efficient Wireless Sensor Networks in Smart City Applications: A Distributed AI-Driven Approach.
02:10 P.M. -02:30 P.M. (GMT + 5:30 Hours)	Paper id 306 A Novel Symmetric Key Based Authentication Scheme that Saves Energy for Edge Devices Of The Internet of Things
02:30 P.M. -02:50 P.M. (GMT + 5:30 Hours)	Paper id 315 Objective Functions in High-Density Internet of Things Networks - A Performance Evaluation
02:50 P.M. -03:10 P.M. (GMT + 5:30 Hours)	Paper id 322 Cognitive Adhoc Trust Routing for Enhanced Quality of Service
03:10 P.M. – 03:30 P.M. (GMT + 5:30 Hours)	Paper id 361 A Novel Approach of SHA-3-512bits using Keccak Technique Based on Sponge Function Implementation on FPGA
03:30 P.M. – 03:50 P.M. (GMT + 5:30 Hours)	Paper id 369 Osmotic Computing Based Task Offloading: A Fuzzy Logic-Based Approach
03:50 P.M. – 04:10 P.M. (GMT + 5:30 Hours)	Paper id 271 Robust Iris Image Encryption via Black Widow Optimization Method
03:50 P.M. – 04:10 P.M. (GMT + 5:30 Hours)	Paper id 429 A Machine Learning (ML)-Inspired Method for Intrusion Detection in IoT Devices Networks
03:50 P.M. – 04:10 P.M. (GMT + 5:30 Hours)	Paper id 492 Detection and Prevention of Black Hole Attack and Sybil Attack in Vehicular Ad Hoc Networks
**** End of the Session ****	

	Day 2: Wednesday, 7th February 2024
	Timing: 09:30 A.M. to 04: 00 P.M. IST (GMT + 5:30 Hours)
09:30 A.M. IST- 10:20 A.M. IST (GMT + 5:30 Hours)	**Eminent Guest Plenary Session Talk 3:** IoT with Ultra-wideband Communication Speaker: **Dr. Himanshu Soni,** *Provost, CVM University, Vallabh Vidyangar, Gujarat, India* Welcome Address by **Dr. Meghna Patel,** *Associate Dean, Research, Faculty of Computer Application*, Ganpat University, India

Parallel Session Track: Network and Communication-2

Dr Vishvjit Thakar, Ph.D, IIT Bombay, Professor, Computer Science and Engineering, Indrashil University, Gujarat, India

Dr. Vrushank Shah, Indus University, Gujarat, India

Dr. Rakhee, University of the West Indies, West Indies

Dr. Satyen Parikh, Executive Dean, Faculty of Computer Application, Ganpat University, Gujarat, India

Dr. Ketan D. Patel, Associate Professor, Faculty of Computer Application, Ganpat University, Gujarat, India

10:20 A.M. - 10:40 A.M. (GMT + 5:30 Hours)	Paper id 381 IoT-Based Convolutional Neural Networks in a Farm Pest Detection Using Transfer Learning
10:40 A.M. -11:00 A.M. (GMT + 5:30 Hours)	Paper id 386 Detecting Distributed Denial of Service (DDoS) Attacks in a Multi-controller SDN Environment Utilizing Machine Learning
11:00 A.M.-11:20 A.M. (GMT + 5:30 Hours)	Paper id 413 Routing in IoT network using NetSim Simulator
11:20 A.M.-11:40 A.M. (GMT + 5:30 Hours)	Paper id 434 An Effective Biometric Medical Image Watermarking System Designed for e-Health Application
11:40 A.M.-12:00 P.M. (GMT + 5:30 Hours)	Paper id 445 AN ANOMALY-MISUSE HYBRID SYSTEM FOR EFFICIENT INTRUSION DETECTION IN CLUSTERED WIRELESS SENSOR NETWORK USING NEURAL NETWORK
12:10 P.M. -12:30 P.M. (GMT + 5:30 Hours)	Paper id 493 Containment of Compromised Nodes in a Distributed Environment
12:30 P.M. TO 1:30 P.M. - BREAK	
01:30 P.M. -01:50 P.M. (GMT + 5:30 Hours)	Paper id 447 Analysis of ADTCP and Improved-ADTCP: for refining TCP performance over Ad-hoc Networks
01:50 P.M. -02:10 P.M. (GMT + 5:30 Hours)	Paper id 449 Unmasking the Illusion: Deepfake Detection through MesoNet
02:10 P.M. -02:30 P.M. (GMT + 5:30 Hours)	Paper id 469 Performance Analysis of Energy Efficient Routing Protocols in Wireless Sensor Networks
03:30 P.M. -02:50 P.M. (GMT + 5:30 Hours)	Paper id 486 Monitoring the concentration of air pollutants and its health hazards using machine learning models
02:50 P.M. -03:10 P.M. (GMT + 5:30 Hours)	Paper id 490 Catalan's Conjecture and Elliptic Curve Cryptography (CCECC) algorithm for Enhancing Data Security during Data Transmission in MANET

03:10 P.M. -03:30 P.M. (GMT + 5:30 Hours)	Paper id 495 A NOVEL APPROACH TO SOLVE NETWORK SECURITY, CRYPTOGRAPHY PROBLEMS USING GENETIC ALGORITHM
3:30 P.M. -03:50 P.M. (GMT + 5:30 Hours)	Paper id 401 Performance Analysis of IoT Network over 5G Communication

Parallel Session Track: Network and Communication-3

Dr. Jagdish M. Rathod, Professor of EC, Birla Vishvakarma Mahavidyalaya, Gujarat, India

Dr Dilip Kumar Kothari, Professor Emeritus, Ganpat University, Gujarat, India

Dr. Kiran Amin, Executive Dean, Faculty of Engineering and Technology, Ganpat University, Gujarat, India

Dr. Rakesh Vanzara, *Dean, Faculty of Engineering and Technology,* , Ganpat University, India

10:20 A.M. - 10:40 A.M. (GMT + 5:30 Hours)	Paper id 233 Cooperative Spectrum Sensing in Cognitive Radio Network using Adaptive Walruses Optimization Algorithm
10:40 A.M. -11:00 A.M. (GMT + 5:30 Hours)	Paper id 235 A Robust Synchronization & Channel Estimation Using 64-QAM & LDPC Coding Scheme for OFDM system
11:00 A.M.-11:20 A.M. (GMT + 5:30 Hours)	Paper id 236 An Effective Non-Linear Distortion Elimination & Data Transmission Using Hybrid BCH-LDPC coding & 64-APSK Modulator scheme in Satellite forward link
11:20 A.M.-11:40 A.M. (GMT + 5:30 Hours)	Paper id 357 Design and optimization in SPI master at the RTL level
11:40 A.M.-12:00 P.M. (GMT + 5:30 Hours)	Paper id 365 Performance Evaluation of Parallel Processing Adder against Basic Adders on FPGAs
12:10 P.M. -12:30 P.M. (GMT + 5:30 Hours)	Paper id 371 Enhancing ASIC Design Efficiency: A Focus on RTL Verification with Spyglass

12:30 P.M. TO 1:30 P.M. -   BREAK

01:30 P.M. -01:50 P.M. (GMT + 5:30 Hours)	Paper id 380 High-Speed FSO System for Future Generation Networks for Long Reach
01:50 P.M. -02:10 P.M. (GMT + 5:30 Hours)	Paper id 393 Comprehensive Study of Short Channel Effects (SCEs) in MOSFET and FinFET Devices
02:10 P.M. -02:30 P.M. (GMT + 5:30 Hours)	Paper id 411 Design of Performance Enhanced Approximate Multiplier for Image Processing Applications
03:30 P.M. -02:50 P.M. (GMT + 5:30 Hours)	Paper id 464 Towards an Efficient Anchor Point Determination for Mobile charger in Wireless Rechargeable Sensor Networks
02:50 P.M. -03:10 P.M. (GMT + 5:30 Hours)	Paper id 487 Performance comparison of NOMA Vehicular Communications under shadow fading
03:10 P.M. -03:30 P.M. (GMT + 5:30 Hours)	Paper id 498 Design and performance analysis of high efficiency propulsion system for VTOL applications
3:30 P.M. -03:50 P.M. (GMT + 5:30 Hours)	Paper id 503 Mitigating PAPR Challenges in Massive MIMO Systems for CR-IoT Networks: A Graeco-Latin Square Approach

** Valedictory Session **

Timing: 3:50 P.M. IST (GMT + 5:30 Hours) Onwards

Valedictory Address

Concluding Remarks: **Dr. Kiran Amin,** Organising Chair, COMS2, Ganpat University, India

Vote of Thanks: **Dr. Nirbhay Chaubey,** Overall Organising Chair, COMS2