

# **2020 International Conference on COMmunication Systems & NETworkS (COMSNETS 2020)**

**Bengaluru, India  
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# Program

	COMSNETS 2019 Invited Papers	The Twelfth International Conference on COMmunication Systems and NETworkS (COMSNETS) - Main Conference	COMSNETS 2019 Blockchain Workshop	COMSNETS 2020 - Graduate Forum	COMSNETS 2020 - ITS Workshop	The Eleventh International Conference on COMmunication Systems and NETworkS (COMSNETS) - LastMileS Workshop	The Tenth International Conference on COMmunication Systems and NETworkS (COMSNETS) - MINDS Workshop	COMSNETS 2020 - NetHealth Workshop- Call for Papers	COMSNETS 2020 - Poster Track	COMSNETS 2020 Demos and Exhibits
Tuesday, January 7										
9:00 am-6:00 pm			blockchain: Cybersecurity & Blockchain Workshop			lm: LastMileS	minds: MINDS			
Wednesday, January 8										
11:45 am-1:15 pm	T1-1: Network Applications	T2-1: Machine Learning for Networks								
1:15 pm-3:45 pm									PS1: Poster Session 1	Demo: Demos and Exhibits
3:45 pm-4:00 pm										
4:00 pm-5:30 pm	T2-2: Pervasive Sensing and Socio-Technical Networks			gf: Graduate Forum						
Thursday, January 9										
11:00 am-1:00 pm	T1-3: 5G Communication	T2-3: Cyber Physical Systems								
1:00 pm-4:00 pm									PS2: Poster Session 2	
4:00 pm-5:10 pm	T1-4: Network and System Security	T2-4: Networked Systems								
Friday, January 10										
11:30 am-1:00 pm	T1-5: Network Core	T2-5: Internet of Anythings								
2:00 pm-3:30 pm	T1-6: Algorithms for Networking Systems	T2-6: Emerging Network Applications								
4:00 pm-5:00 pm	T1-7: Physical Layer Communication	T2-7: Network Resource Management								
Saturday, January 11										
9:00 am-6:00 pm					its: ITS			nh: NetHealth		

Saturday, January 11 9:00 - 6:00

nh: NetHealth

Room: SIGMA HALL 3

**Unsupervised Online Feature Selection For Cost-Sensitive Medical Diagnosis 1**

Arun Verma and Manjesh K Hanawal (Indian Institute of Technology Bombay, India); Hemachandra N. (IIT Bombay, India)

**Non-invasive modeling of heart rate and blood pressure from a photoplethysmography by using machine learning techniques 7**

Govinda Rao Nidigattu (Redpinesignals, India); Govardhan Mattela (IIT -H & Redpinesignals, India); Sayan Jana (Redpinesignals, India)

**Designing for Safety and Efficacy: An Assessment of a Medtech Development Platform 13**

Pooja Kadambi and Vijayarajan A (InnAccel Technologies, India)

**Security issues and challenges in Healthcare Automated Devices 19**

Ajay Jangid (N I T Surathkal, India); Priyansh Dubey (National Institute of Technology Karnataka Surathka, India); B. R. Chandavarkar (National Institute of Technology Karnataka Surathkal India, India)

**Autolmpilo: Smart Automated Health Machine using IoT to Improve Healthcare in Rural Areas N/A**

Akshay Madguni (Srishti i2i Biz Solutions, India); Mithileysh Sathiyarayanan (City, University of London, United Kingdom (Great Britain)); Sharanya Rajan (Southampton General Hospital & University Hospital Southampton, NHS Foundation Trust, United Kingdom (Great Britain))

**Cloud-based Mobile and Web application to support managing the treatment of TB 29**

Mridula Goel (Birla Institute of Technology & Science, Pilani K. K. Birla Goa Campus, India); Priyesh Srivastava and Tanmay Dixit (Birla Institute of Technology and Science, Pilani - Goa Campus, India); R Hariram and Rajath Reghunath (Birla Institute of Technology and Science, Pilani – Goa Campus, India)

**Prevalence of Musculoskeletal Disorders and its Impact on Lost Production Days among Industrial Workers: A Data Analytics Approach 35**

Alok Ranjan and Yanxiao Zhao (Virginia Commonwealth University, USA)

**Characterization of a Low Cost, Automated and Field Deployable 2-Lead Myocardial Infarction Detection System 41**

Neha Arora (DA-IICT, India); Biswajit Mishra (DAIICT, India)

**Smart Neck Band for Rehabilitation of Musculoskeletal Disorders 47**

Korupalli Veera Rajesh Kumar (Vellore Institute of Technology, Chennai, India); Susan Elias (Vellore Institute of Technology Chennai, India)

**Predicting Human Response in Feature Binding Experiment Using EEG Data 24**

Syesha Girdher (Qualcomm India Private Limited, India); Anubha Gupta (Indraprastha Institute of Information Technology Delhi, India); Snehlata Jaswal (Chaudhary Charan Singh University, Meerut, India); Vinayak Naik (BITS Pilani, India)

**Understanding Functional Brain Activation using Source Localization of EEG Signals in Motor Imagery Tasks 58**

Mansi Saxena (IIIT Delhi, India); Ekansh Sareen (IIIT-Delhi, India); Anubha Gupta (Indraprastha Institute of Information Technology Delhi, India)

**Use of Smartphone's Headset Microphone to Estimate the Rate of Respiration 64**

Kanchanjot Kaur Phokela (Indraprastha Institute of Information Technology, Delhi, India); Vinayak Naik (BITS Pilani, India)

**Self-powered cardiac pacemaker: the viability of piezoelectric energy harvester 70**

Sanjana Gururaj (BMS College of Engineering, India); Alexis Appelquist (University of Arkansas, USA); Sujata Bhattarai (CBEAS, Purbanchal University, Nepal)

**Validation of an Infrastructure Independent CPAP for Newborns Suffering from Respiratory Distress Syndrome 76**

Yaagyanka Gehlot (Coeo Labs Private Limited, India); Basava Kumar Mukkundi (COEO LABS PVT LTD, India); Goutham Prasad (Coeo Labs, India); Sujay Shetty (COEO Labs, India); Nitesh Kumar Jangir (Coeo Labs, India); Nachiket Deval (COEO LABS PVT LTD, India); Senthil A (Coeo Labs Private Limited, India); Vijayarajan A (InnAccel Technologies, India)

its: ITS

Room: SIGMA HALL 1

**A heuristic adaptive traffic control algorithm for signalized intersections 82**

Bijul Raveendran (Indian Institute of Technology Bombay, India); Tom Mathew (IIT Bombay, India); Nagendra Velaga (Indian Institute of Technology Bombay, India)

**LOCATOR: A Cloud-FOG-enabled Framework for Facilitating Efficient LoCAtiOn based SeRvices 87**

Shreya Ghosh (Indian Institute of Technology Kharagpur, India); Jaydeep Das (IIT Kharagpur, India); Soumya K Ghosh (Indian Institute of Technology Kharagpur, India)

**Intelligent Fault Diagnosis of Air Brake System in Heavy Commercial Road Vehicles 93**

Radhika Raveendran (RIT Kottayam, India); K b Devika (IIT Madras, India); Shankar Subramanian (Indian Institute of Technology Madras, India)

**A Case Study on Kernel Density Estimation and Hotspot Analysis Methods in Traffic Safety Management 99**

Lakshmi Srikanth (CMR Institute of Technology, Bengaluru, India); Ishwarya Srikanth (Florida Atlantic University, USA)

**Vehicle Fall Severity Modeling using IoT and K-Nearest Neighbor Algorithm 105**

Nikhil Kumar, Anurag Barthwal and Divya Lohani (Shiv Nadar University, India); Debopam Acharya (DIT University, India)

**An Intelligent Triphase Rule-Based Wheel Slip Controller with Slip Estimation for Heavy Vehicles 110**

Karthik Ramakrushnan (Indian Institute of Technology Madras, India); Akhil Challa (IIT Madras, India); Harshal Anil Patil and Shankar Subramanian (Indian Institute of Technology Madras, India); Gunasekaran Vivekanandan and Sriram Sivaram (Madras Engineering Industries Pvt. Ltd., India)

**Multivariate Analysis of Freeways Speed and Time Headway under Mixed Traffic Streams 116**

Sandeep Singh, Akshay Kumar, Muhamed Niyas and Moses Santhakumar (National Institute of Technology Tiruchirappalli, India)

Wednesday, January 8 11:45 - 1:15

T1-1: Network Applications

Claudio Cassetti

Room: GBR-1

**A Distributed V2V-based Virtual Traffic Light System 122**

Marco Rapelli, Claudio E. Casetti and Marcello Sgarbi (Politecnico di Torino, Italy)

**PHY-Based Key Agreement Scheme Using Audio Networking 129**

Dania Qara Bala (Indian Institute of Technology Bombay, India); Bhaskaran Raman (Indian Institute of Technology, Bombay, India)

**DA-TV: Dynamic Adaptive Television Broadcast for Mobile users 137**

Monalisa Ghosh and Anubhav Choudhary (IIT Kharagpur, India); Chetna Singhal (Indian Institute of Technology Kharagpur, India)

**PanOpticon: A Comprehensive Benchmarking Tool for Serverless Applications 144**

Nikhila Somu (Indian Institute of Technology, Bombay); Nilanjan Daw (Indian Institute of Technology, Bombay, India); Umesh Bellur (Indian Institute of Technology Bombay, India); Purushottam Kulkarni (Indian Institute of Technology, Bombay, India)

## T2-1: Machine Learning for Networks

Veena Mendiratta

Room: GBR-2

**Deep Learning based Prediction Model for Adaptive Video Streaming 152**

Anirban Lekharu (IIT Guwahati, India); K Mouli and Arijit Sur (Indian Institute of Technology Guwahati, India); Arnab Sarkar (Indian Institute of Technology, Guwahati, India)

**A Distributed Learning Simulation Platform for Edge Hierarchies 160**

Alka Bhushan, Aniket Shirke, Govind Lahoti and Umesh Bellur (Indian Institute of Technology Bombay, India)

**Secrets in Source Code: Reducing False Positives Using Machine Learning 168**

Aakanksha Saha, Sneha Kumar Kasera, Vivek Srikumar and Tamara Denning (University of Utah, USA)

**Unsupervised Anomaly Detection and Root Cause Analysis in Mobile Networks 176**

Cheolmin Kim (Northwestern University, USA); Veena B. Mendiratta (NOKIA Bell Labs, USA); Marina Thottan (Bell Labs, USA)

Wednesday, January 8 4:00 - 5:30

## T2-2: Pervasive Sensing and Socio-Technical Networks

Nirmalya Roy

Room: GBR-2

**Semi-supervised Subject Recognition through Pseudo Label Generation in Ubiquitous Sensor Data 184**

Sourish Dhekane, Krishnam Vajra and Dip Sankar Banerjee (Indian Institute of Information Technology Guwahati, India)

**Practical Server-side Indoor Localization: Tackling Cardinality & Outlier Challenges 192**

Anuradha Ravi and Archan Misra (Singapore Management University, Singapore)

**Finding summaries to obtain event phrases from streaming Microblogs using Word Co-occurrence Network 200**

Muskan Garg (UIET, India); Mukesh Kumar (Panjab University, India)

Thursday, January 9 11:00 - 1:00

## T1-3: 5G Communication

Sumit Roy

Room: GBR-1

**Low PAPR DMRS sequence Design for 5G-NR Uplink 207**

Sibgath Khan and Koteswara rao Gudimitla (Indian Institute of Technology Hyderabad, India); SaiDhiraj Amuru and Kiran Kuchi (IIT Hyderabad, India)

**Resource Allocation with Admission Control for GBR and Delay QoS in 5G Network Slices 213**

Tulja Vamshi Kiran Buyakar and Harsh Agarwal (Indian Institute of Technology Hyderabad, India); Bheemarjuna Reddy Tamma (IIT Hyderabad, India); Antony Franklin A (Indian Institute of Technology Hyderabad, India)

**End-to-End Delay Jitter in LTE Uplink: Simple Models, Empirical Validation & Applications 221**

Megha Sahu (Indian Institute of Technology Bhilai, India); Arzad Kherani (Indian Institute of Technology, Bhilai, India)

**Scalable and Fair Resource Sharing Among 5G D2D Users and Legacy 4G Users: A Game Theoretic Approach 229**

Sreetama Mukherjee (Jadavpur University, India); Sasthi C. Ghosh (Indian Statistical Institute, India)

**Removing the PDCCH Bottleneck and Enhancing the Capacity of 4G Massive MIMO Systems 237**

Pavan Reddy M. (Indian Institute of Technology Hyderabad, India); Harish Kumar D (IITH, India); SaiDhiraj Amuru and Kiran Kuchi (IIT Hyderabad, India)

## T2-3: Cyber Physical Systems

Simone Silvestry

Room: GBR-2

**CORNET: A Co-Simulation Middleware for Robot Networks 245**

Srikrishna Acharya (Robert Bosch Center for Cyberphysical Systems, India); Bharadwaj Amrutur, Yogesh Simmhan, Aditya Gopalan, Parimal Parag and Himanshu Tyagi (Indian Institute of Science, India)

**PSO-based Rendezvous Point Selection for Delay Efficient Trajectory Formation for Mobile Sink in Wireless Sensor Networks 252**

Anjula Mehto (Atal Bihari Vajpayee-Indian Institute of Information Technology and Management, Gwalior, India); Shashikala Tapaswi and K K Pattanaik (Indian Institute of Information Technology and Management, India)

**Improving Access to Network Resources in IoT Networks 259**

Kaumudi Singh (Indian Institute of Science, India); T Venkata Prabhakar (IISc, India); Joy Kuri (Indian Institute of Science, India)

**Behavior Analysis through Routine Cluster Discovery in Ubiquitous Sensor Data 267**

Shivam Tiwari, Manan Sharma, Suchetana Chakraborty and Dip Sankar Banerjee (Indian Institute of Information Technology Guwahati, India)

**Machine Learning in the Wild: The Case of User-Centered Learning in Cyber Physical Systems 275**

Atieh R. Khamesi, Eura Shin and Simone Silvestri (University of Kentucky, USA)

Thursday, January 9 4:00 - 5:10

**T1-4: Network and System Security**

**Sanjay Jha**

Room: GBR-1

**ProxiCar: Proximity-based Secure Digital Key Solution for Cars 282**

Girish Revadigar (Huawei Research, Singapore); Chitra Javali (Institute for Infocomm Research (I2R), A\*STAR, Singapore); Sanjay Jha (University of NSW, Australia)

**Rand-OFDM: A secured Wireless Signal 290**

Hesham Mohammed (University At Albany SUNY, USA); Dola Saha (University at Albany, SUNY, USA)

**PriVC: Privacy Preserving Verifiable Computation 298**

Hardik Gajera (DA-IICT, India); Manik Lal Das (DAIICT, India)

**T2-4: Networked Systems**

**Supratik Mukhopadhyay**

Room: GBR-2

**Opinion Control Competition in a Social Network 306**

Mohak Goyal (Qualcomm India Private Limited, India); D. Manjunath (IIT Bombay, India)

**“Please come back later”: Benefiting from deferrals in service systems 314**

Anmol Kagrecha and Jaykrishnan Nair (IIT Bombay, India)

**Context-Aware Design of Cyber-Physical Human Systems (CPHS) 322**

Supratik Mukhopadhyay, Qun Liu, Edward Collier, Yimin Zhu, Ravindra Gudishala and Chanachok Chokwiththaya (Louisiana State University, USA); Robert DiBiano (Ailectric, USA); Alimire Nabijiang and Sanaz Saeidi (Louisiana State University, USA); Subhajit Sidhanta (Indian Institute of Technology Bhilai, India); Arnab Ganguly (Louisiana State University, USA)

Friday, January 10 11:30 - 1:00

**T1-5: Network Core**

**Krishna Sivalingam**

Room: GBR-1

**Design and analysis of fast IP address-lookup schemes based on cooperation among routers 330**

Ganesh Chennimalai Sankaran (IIT Madras, India); Krishna M. Sivalingam (Indian Institute of Technology Madras, India)

**SBL-Based Interference Cancellation And Data Recovery For Uplink C-RAN 340**

Anupama Rajoriya and Vidushi Katiyar (Indian Institute of Technology, Kanpur, India); Rohit Budhiraja (IIT Kanpur, India)

**Study and Mitigation of Platform Related UWB Ranging Errors 346**

Nour Smaoui, Kyungki Kim and Omprakash Gnawali (University of Houston, USA)

**Effects of Sensing & Control Errors on Quality of Adaptation in Networked Systems 354**

Kaliappa Ravindran (City University of New York, USA); Arun Adiththan (General Motors, USA)

**T2-5: Internet of Anythings**

**Salil Kanhere**

Room: GBR-2

**BH-MAC: An efficient Hybrid MAC Protocol for Vehicular Communication 362**

Saurabh Kumar (Chungbuk National University, Korea (South)); HyungWon Kim (Chungbuk National University & College of Electrical and Computer Engineering, Korea (South))

**ROSE: Random Opportunistic and Selective Exploration for Cooperative Edge Swarm of UAVs 368**

Sudip Misra (Indian Institute of Technology-Kharagpur, India); Anandarup Mukherjee (Indian Institute of Technology, Kharagpur, India); Aniq Ur Rahman (National Institute of Technology Durgapur, India); Narendra Singh Raghuvanshi (Indian Institute of Technology Kharagpur, India)

**Charge Scheduling in Wireless Rechargeable Sensor Networks Using Mobile Charging Vehicles 375**

Rohit Kumar and Joy Chandra Mukherjee (Indian Institute of Technology Bhubaneswar, India)

**A journey in applying blockchain for cyberphysical systems 383**

Volkan Dedeoglu (CSIRO, Australia); Ali Dorri (Queensland University of Technology); Raja Jurdak (Queensland University of Technology & CSIRO, Australia); Regio Michelin (University of New South Wales, Australia); Roben Castagna Lunardi (PUCRS & IFRS, Brazil); Salil S Kanhere (UNSW Sydney, Australia); Avelino Zorzo (PUCRS, Brazil)

Friday, January 10 2:00 - 3:30

## T1-6: Algorithms for Networking Systems

Hrishikesh B Acharya

Room: GBR-1

### **From Spanning Trees to Meshed Trees 391**

Hrishikesh B Acharya and John Hamilton (Rochester Institute of Technology, USA); Nirmala Shenoy (Rochester Institute of Technology & Rochester Institute of Technology, USA)

### **ARoM: An Adaptive Resource Optimization Model for Mobile IoT Edge 396**

Ramesh Guntha (Amrita Center for Wireless Networks and Applications, Amrita Vishwa Vidyapeetham University, India); Sethuraman N Rao (Amrita Vishwa Vidyapeetham, India); Maneesha Ramesh (Amrita University, India); Maik Benndorf and Thomas Haenselmann (University of Applied Sciences Mittweida, Germany)

### **On Some Universally Good Fractional Repetition Codes 404**

Shreyansh Prajapati, Sourav Deb and Manish Kumar Gupta (Dhirubhai Ambani Institute of Information and Communication Technology, India)

### **The Watermark-Securable Subspace of a Linear System Containing a Single Malicious Actuator 412**

Bharadwaj Satchidanandan (Massachusetts Institute of Technology, USA); P R Kumar (Texas A&M University, USA)

## T2-6: Emerging Network Applications

Vishnu Navda

Room: GBR-2

### **An Interoperable ECC based Authentication and Key agreement Scheme for IoT Environment 419**

Asit Sahoo (NIT, Rourkela, India); Shreeya Swagatika Sahoo (Nit, Rourkela, India); Sampa Sahoo (National Institute of Technology Rourkela, India); Bibhudatta Sahoo and Ashok Turuk (National Institute of Technology, Rourkela, India)

### **VRMap: A Cost and Time aware Remapping of Virtual Data Centres over a Geo-distributed Infrastructure 427**

Anurag Satpathy (National Institute of Technology, Rourkela, India); Manmath Narayan Sahoo, Lipsa Chhotray, Banshidhar Majhi and Ashutosh Mishra (National Institute of Technology Rourkela, India); Sambit Bakshi (National Institute of Technology, Rourkela, India)

### **BER Performance of Full-duplex Two-way Relay System With User Mobility 435**

Tanvi Kaple (VNIT Nagpur, India); Prasanna Raut and Prabhat Kumar Sharma (Visvesvaraya National Institute of Technology, India)

Friday, January 10 4:00 - 5:00

## T1-7: Physical Layer Communication

Room: GBR-1

### **Energy Efficient Multi-Pair Massive MIMO Two-Way AF Relaying: A Deep Learning Approach 440**

Venkatesh Tentu, Dheeraj Naidu Amudala, Anupama Rajoriya and Ekant Sharma (Indian Institute of Technology, Kanpur, India); Rohit Budhiraja (IIT Kanpur, India)

### **Copula-Based Cooperative Sensing of OFDM Signals in Cognitive Radios 446**

Akhil Singh (International Institute of Information Technology, Hyderabad, India); Sai Praneeth Chokkarapu (International Institute of Information Technology-Hyderabad, India); Sachin Chaudhari (International Institute of Information Technology, India); Pramod Varshney (Syracuse University, USA)

### **Cache-Aided Non-Orthogonal Multiple Access Over Fading Channels in Downlink Cellular Networks 452**

Shreshtha Mohan, Shreya Morgangate, Priyadarshini Basker and Sanjeev Gurugopinath (PES University, India); Sami Muhaidat (Khalifa University, United Arab Emirates)

### **A Decoupling Property in Low-Resolution MIMO-OFDM Systems and its Applications 460**

Narayan Prasad (Futurewei Technologies Inc., USA); Xiao-Feng Qi (Futurewei Technologies, Inc., USA)

## T2-7: Network Resource Management

Room: GBR-2

### **Relay Selection in Millimeter Wave D2D Communications Through Obstacle Learning 468**

Subhojit Sarkar and Sasthi C. Ghosh (Indian Statistical Institute, India)

### **Joint Control and Shared Channel Scheduling for Downlink in 3GPP Narrowband-IoT 476**

Pavan Reddy M. and Abhinav Kumar (Indian Institute of Technology Hyderabad, India); Kiran Kuchi (IIT Hyderabad, India)

### **Optimal Downlink Scheduling and Power Allocation with Reconfiguration Delay 484**

Gowri Muraliedharan (IIITDM Kancheepuram, India); Vineeth Bala Sukumaran (Indian Institute of Space Science and Technology, Trivandrum, India); Premkumar K. (Indian Institute of Information Technology, Design and Manufacturing Kancheepuram, India)

### **CONETSI: On Demand Distributed Network State Information Collection using Opportunistic Exploration for Resource Constrained Networks 491**

Srijith S Nair (Ohio State University, USA); Aadrees Sahu (Indian Institute of Engineering Science and Technology, Shibpur, India); Srikanth Mantravadi, Anand Svr and Malati Hegde (Indian Institute of Science, India)

Wednesday, January 8 1:15 - 4:00

## PS1 (COMSNETS 2020 - Poster Track): Poster Session 1

### **Social Network Aware Dynamic Edge Server Placement for Next-Generation Cellular Networks 499**

Manasvi G. (Indian Institute of Space Science and Technology, India); Abhishek Chakraborty (Indian Institute of Technology Madras, India); Manoj Bs (Indian Institute of Space Science and Technology, India)

### **Attribute-based Data Security with Obfuscated Access Policy for Smart Grid Applications 503**

Kamalakanta Sethi (Indian Institute of Technology, Bhubaneswar, India); Ankit Pradhan (Indian Institute of Technology Bhubaneswar, India); Padmalochan Bera (IIT Bhubaneswar, India)

**Power Scaling for Massive MIMO UAV Communication System 507**

Soumyadeep Data and Ekant Sharma (Indian Institute of Technology, Kanpur, India); Rohit Budhiraja (IIT Kanpur, India)

**Adaptive flow-level scheduling for the IoT MAC 515**

Pragya Sharma, Jayakrishnan Nair and Raman Singh (IIT Bombay, India)

**BER Analysis of Reconfigurable Intelligent Surface Assisted Downlink Power Domain NOMA System 519**

Vetrivel Chelilian Thirumavalavan (Thiagarajar College of Engineering, India); Thiruvengadam S Jayaraman (Thiagarajar College of Engineering, Madurai, India)

**Anticipatory QoE mechanisms for 5G Data Analytics 523**

Vidhya R (K. S. Institute of Technology, India); Karthik P (VTU & K. S. School of Engineering and Management, India); Satish Jamadagni (Wireless Technology, India)

**A study on real-time edge computed occupancy estimation in an indoor environment 527**

Anirban Das (IIIT Guwahati, India); Rohan Gupta and Suchetana Chakraborty (Indian Institute of Information Technology Guwahati, India)

**A Binary Classification Approach for Time Granular Traffic in SDWMN based IoT Networks 531**

Rohit Kumar (DSPM IIT Naya Raipur, India); Venkanna U. (Dr Shyama Prasad Mukherjee International Institute of Information Technology, India); Vivek Tiwari (IIIT Naya Raipur, India)

**Storage and Rack Sensitive Replica Placement Algorithm for Distributed Platform with Data as Files 535**

Vinay Venkataramanachary, Enrique A Reveron and Wei Shi (Carleton University, Canada)

**Dynamic Control of Packet Duplication in 5G-NR Dual Connectivity Architecture 539**

Swarajya Madhuri Rayavarapu, SaiDhiraj Amuru and Kiran Kuchi (IIT Hyderabad, India)

**SilentInformer: A Framework for Information Dispersion using Inaudible Acoustic Signals 543**

Utkalika Satapathy (IIIT Bhubaneswar, India); Soumyajit Chatterjee (IIT Kharagpur, India); Sandip Chakraborty (Indian Institute of Technology Kharagpur, India)

**MIMO-TTR+: A Novel Topology-Transparent Scheduling Scheme for MIMO Wireless Networks 547**

Dipti Dash (KIIT University, India); Debarshi Kumar Sanyal (IIT Kharagpur, India)

**Impact of Earthquakes based on Satellite Images using IoT and Sensor Networks 551**

Sameer Rajput, Divya Puraswani, Aarathi Nadathur, Shubh Johri and Amar Ippili (SJSU, USA); Subhankar Dhar (San Jose State University, USA)

**I Know Who You Are: A Learning Framework to Profile Smartphone Users 555**

Mihika Naik (BITS Pilani, India); Ashutosh Bhatia (Birla Institute of Technology and Science, Pilani, India); Kamlesh Tiwari (Indian Institute of Technology Kanpur, India)

**EM Radiation Reduction in WCN: Towards Safe Generations 559**

Haneet Kour (Shri Mata Vaishno Devi University, Katra, India); Rakesh Kumar Jha (School of Electronics and Communication Kakryal & Shri Mata Vaishno Devi University, India)

**Time Series Snapshot of Event Boundary Detection and Area Estimation in Wireless Sensor Networks 563**

Srabani Kundu (Guru Nanak Institute of Technology, Kolkata, India); Nabanita Das (Indian Statistical Institute, India); Avirup Das (University of Calcutta, India)

**Efficient Keyword Matching for Deep Packet Inspection based Network Traffic Classification 567**

Pratibha Khandait (IIT Indore, India); Neminath Hubballi (Indian Institute of Technology Indore, India); Bodhisatwa Mazumdar (IIT Indore, India)

**Contextual Bandits Evolving Over Finite Time 571**

Harsh S Deshpande and Vishal Jain (IIT Bombay, India); Sharayu Moharir (Indian Institute of Technology Bombay, India)

**Performance Analysis of UAV-aided RF Energy Transfer 575**

Suraj Suman and Swades De (Indian Institute of Technology Delhi, India)

**Link Quality Measurements for Marine Vehicle to Infrastructure Network (V2I) 578**

Dhanesh Raj (Amrita VishwaVidyapeetham, India); Maneesha Vinodini Ramesh (Amrita Vishwa Vidyapeetham, Amrita University, India); Sethuraman N Rao (Amrita Vishwa Vidyapeetham, India)

**Machine Learning & Concept Drift based Approach for Malicious Website Detection 582**

Siddharth Singhal and Utkarsh Chawla (Delhi Technological University, India); Rajeev Shorey (TCS Innovation Lab, Cincinnati & Bangalore, India)

Thursday, January 9 1:00 - 4:00

PS2 (COMSNETS 2020 - Poster Track): Poster Session 2

**Multihop D2D Communication to Minimize and Balance SAR in 5G 590**

Avirup Das (University of Calcutta, India); Nabanita Das (Indian Statistical Institute, India)

**A Secure and Privacy-Preserved Road Condition Monitoring System 594**

Barnana Baruah and Subhasish Dhal (Indian Institute of Information Technology Guwahati, India)

**Sparse Robust Distributed Estimation by Diffusion Adaptation 598**

Sowjanya Modalavalasa, Upendra Sahoo, Ajit Sahoo and Ajitesh Yadav (NIT Rourkela, India)

**Energy-Throughput Tradeoff with Optimal Sensing Order in Cognitive Radio Networks 602**

Santhoshkumar M (Indian Institute Of Information Technology, India); Premkumar K. (Indian Institute of Information Technology, Design and Manufacturing Kancheepuram, India)

**Analysis of Underwater Acoustic Channel based on Angle of Arrival Distribution 606**

Manishika Rawat, Brejesh Lall and Seshan Srirangarajan (Indian Institute of Technology Delhi, India)

**Positive Information Diffusion for Rumor Containment in Online Social Networks 610**

Rohit Tripathi and Shilpa Rao (Indian Institute of Information Technology Guwahati, India)

**Demonstration of High Data-rate Multimedia Streaming in a Laser-based Indoor Visible Light Communication System 614**

Sathisha R N (Indian Institute of Science, Bangalore & Siddaganga Institute of Technology, Tumakuru, India); Vidit Jha (BITS Pilani, India); Faheem Ahmad and Varun Raghunathan (IISc, India)

**Experimental Test-Bed Implementation of Hybrid Opportunistic Routing Design for Low Power, Lossy Wireless Sensor Network 618**

Jayavignesh Thyagarajan and Suganthi K (Vellore Institute of Technology, Chennai, India)



**Achieving Real-time Sign Language Translation using a Smartphone's True Depth Images 622**

HyeonJung Park (Ajou University, Korea (South)); Jong-Seok Lee and JeongGil Ko (Yonsei University, Korea (South))

**Towards ensuring Trustworthiness in Cyber-Physical Systems: A Game-theoretic Approach 626**

Jithish J (Amrita Vishwa Vidyapeetham, India); Sriram Sankaran (Amrita University, India); Krishnashree Achuthan (Amrita Center for Cybersecurity Systems and Networks & Amrita University, India)

**Whittle Index for Aol-Aware Scheduling 630**

Sombabu Bejjipuram (Indian Institute of Technology Bombay, India); Aditya Mate (Harvard University, USA); D. Manjunath (IIT Bombay, India); Sharayu Moharir (Indian Institute of Technology Bombay, India)

**A New Approach To Correlated Multi Armed Bandits 634**

Ishank Juneja (Indian Institute of Technology Bombay, India); Devanshu Singh Gaharwar (IIT Bombay, India); Dhruv Varshney (IIT BOMBAY, India); Sharayu Moharir (Indian Institute of Technology Bombay, India)

**Architectural Considerations for Building a Robust Crowdsourced Disaster Relief Application 638**

Ramesh Guntha (Amrita Center for Wireless Networks and Applications, Amrita Vishwa Vidyapeetham University, India); Sethuraman N Rao (Amrita Vishwa Vidyapeetham, India); Maneesha Ramesh (Amrita University, India)

**Deep Learning-Based Smart Parking Solution using Channel State Information in LTE-based Cellular Networks 642**

Amala Sonny (Indian Institute of Technology, Hyderabad, India); Prabhat Kumar Rai and Abhinav Kumar (Indian Institute of Technology Hyderabad, India); Mohammed Zafar Ali Khan (Indian Institute of Technology, Hyderabad, India)

**Learning Based Beam Tracking in 5G NR 646**

Ipshita Panda (Lekha Wireless Solution Pvt. Ltd., India); Sreenath Ramanath (Lekha Wireless Solutions, India)

**Unreliable Multi-Armed Bandits: A Novel Approach to Recommendation Systems 650**

Aditya Narayan Ravi and Pranav Poduval (IIT Bombay, India); Sharayu Moharir (Indian Institute of Technology Bombay, India)

**Deterministic Linear Transmit Processing for Single-User MIMO Systems 586**

Sandeep Joshi (Samsung Research Institute Bangalore, India); Ranjan K. Mallik (Indian Institute of Technology - Delhi, India); Jack H. Winters (Jack Winters Communications, LLC, USA)

**Versatile Multivariate Data Pruning in Smart Grid IoT Networks 654**

Sharda Tripathi, Mayukh Roy Chowdhury and Swades De (Indian Institute of Technology Delhi, India)

**Tracking and Stabilization of Heart-rate using Pacemaker with FOF-PID Controller in Secured Medical Cyber-physical System 658**

Pritam Khan and Yasin Khan (IIT Patna, India); Sudhir Kumar (Indian Institute of Technology Patna, India)

**ATRRN: Using Seq2Seq Approach for Decoding Polar Codes 662**

Aniket Dhok and Swapnil Bhole (VNIT Nagpur, India)

**Caching Techniques to Improve Latency in Serverless Architectures 666**

Bishakh Chandra Ghosh (Indian Institute of Technology Kharagpur, India); Sourav Kanti Addya (National Institute of Technology Karnataka, India); Nishant Baranwal Somy (IIT Kharagpur, India); Shubha Brata Nath, Sandip Chakraborty and Soumya K Ghosh (Indian Institute of Technology Kharagpur, India)

**Energy Efficiency in Millimeter Wave based Cellular Networks with DUDe and Dynamic TDD 670**

Yoghitha Ramamoorthi and Abhinav Kumar (Indian Institute of Technology Hyderabad, India)

Wednesday, January 8 11:45 - 5:30

Demo: Demos and Exhibits

Room: Indian Affairs

**Feedback-based Keyphrase extraction from Unstructured Text Documents 674**

Nishtha Madaan (IBM Research AI- India, India); Hima Patel (IBM Research India, India); Sameep Mehta (IBM India Research Laboratory, India); Mudit Saxena (Shiv Nadar University, India)

**Detection of Traffic Discrimination in the Internet 677**

Vinod S Khandkar (IIT-Bombay, India); Manjesh K Hanawal (Indian Institute of Technology Bombay, India)

**An Interactive Approach Deployed for Rhinoplasty using Mixed Reality 680**

Manasvi J Maasthi, Gururaj HL, Janhavi V, Harshitha K and Swathi B H (Vidyavardhaka College of Engineering, India)

**Shared Memory Enabled Service Plane Optimization 683**

Ramanathan Subramanian and Jeslin Puthenparambil (Cisco Systems, USA)

**NViZ: An Interactive Visualization of Network Security Systems Logs 685**

Amit Meena and Neminath Hubballi (Indian Institute of Technology Indore, India)

**An Implementation of an Industrial Internet of Things on an SMT Assembly Line 688**

Gaurav Bhandari and Prakash Hiremath (Indian Institute of Science, India); Ashish Joglekar (Robert Bosch Center for Cyberphysical Systems, India); Anupama Kulkarni (Vinyas IT, India); Devadatta Kulkarni (TCS Innovation Labs, USA); C Mahadeva (Vinyas IT, India); Sampad Mohanty (Indian Institute of Science Bangalore, India); Raghunath D (Indian Institute of Science, India); M b Raju (Vinyas IT, India); Rajeev Shorey (TCS Innovation Lab, Cincinnati & Bangalore, India); Rajesh Sundaresan (Indian Institute of Science, India)

**Prohibition of Mobile Phones in Restricted Areas Using Ibeacon Broadcaster and Device Manager 691**

Tanuja U (Vidhyavardaka College of Engineering, India); Gururaj HL and Janhavi V (Vidyavardhaka College of Engineering, India); Seema CK (Visvesvaraiha Technological University, India)

**Demo: A Machine Learning based M-ary Amplitude Modulated Visible Light Communication System 694**

T V Sethu Raman and Susan Elias (Vellore Institute of Technology Chennai, India); Ashwin Ashok (Georgia State University, USA)

**Implementation of 5G Authentication and Key Agreement Protocol on Xbee Networks 696**

Sriraam SV and Suraj Sajeev (IIT, Delhi, India); Rohit Joshi (Indian Institute of Technology, Delhi, India); Amogh Vithalkar (Indian Institute of Technology Delhi, India); Manish Bansal (IIT, Delhi, India); Harshan Jagadeesh (Indian Institute of Technology Delhi, India)

**Smart IoT Communication: Circuits and Systems 699**

Wadood Ahmad Khan (Indian Institute of Technology Delhi, India); Payali Das (IIT Delhi, India); Sushmita Ghosh (Indian Institute of Technology, Delhi, India); Mayukh Roy Chowdhury and

Tuesday, January 7 9:00 - 6:00

minds: MINDS

Room: SIGMA HALL 1

**Scalability Analysis of An Emulated Platform for Heterogeneous Networks 702**

Garima Mishra (TCS (Research and Innovation), India); Hemant Kumar Rath (Tata Consultancy Services, India)

**Networked Remote Music Collaboration Using Machine Learning 708**

Nishtha Nayar and Divya Lohani (Shiv Nadar University, India)

**Enhancing Fault Detection in Time Sensitive Networks using Machine Learning 714**

Nitin Desai (Mälardalens Högskola, Sweden); Sasikumar Punnekkat (Mälardalen University, Sweden)

**DeepSplit: Dynamic Splitting of Collaborative Edge-Cloud Convolutional Neural Networks 720**

Rishabh Mehta (University of Minnesota Twin Cities, USA); Rajeev Shorey (TCS Innovation Lab, Cincinnati & Bangalore, India)

**DeepMines: A fog enabled prediction platform for underground coal mines 726**

Sunny Sanyal (Chongqing University of Posts and Telecommunications, China); Animesh Chattopadhyay (Indian Institute of Technology, Delhi, India)

**Blockchain Enabled Trustless API Marketplace 731**

Vijay Arya and Sayandeep Sen (IBM Research, India); Palani Kodeswaran (IBM Research India, India)

**Ant-Taxi to Pie-Passenger: Optimizing Routes and Time for Distributed Taxi Ride Sharing 736**

Aishwarya Manjunath (PES University, Bangalore, India); Vaskar Raychoudhury (Miami University, USA); Snehanshu Saha (Department of Computer Science and Information Systems and APPCAIR, BITS Pilani K.K. Birla Goa Campus, India)

**An Efficient Pipeline for Distant Person Detection and Identification in 4K Video using GPUs 744**

Chandrajit Pal (Redpine Signals India Pvt Ltd, India); Man Mohan Tripathi (Redpinesignals, India); Govardhan Mattela (IIT -H & Redpinesignals, India); Amit Acharyya (IIT HYDERABAD, India); Rampalli Dhiraj (IITH, India)

**A Novel Forest Fire Detection System Using Fuzzy Entropy Optimized Thresholding and STN-Based CNN 750**

Suresh Babu Avula (Rapidd Technologies, India); Satyajaswanth Badri (Indian Institute of Technology, Ropar, India); Gokul Reddy P (University of Hyderabad, India)

**Skeleton Based Human Action Recognition for Smart City Application Using Deep Learning 756**

Rashmi M (National Institute of Technology Karnataka (NITK), India); Ram Mohana Reddy Guddeti (NITK, Surathkal, India)

**An IoT-based System to Evaluate Indoor Air Pollutants Using Grey Relational Analysis 762**

Krati Rastogi and Divya Lohani (Shiv Nadar University, India); Debopam Acharya (DIT University, India)

Im: LastMiles

Room: SIGMA HALL 3

**Findings from an experimental study of student behavioral patterns using smartphone sensors 768**

Dimple Shah, Ashwini Upasini and Kalyan Sasidhar (DAIICT, India)

**Design of Smart Roads - A Vision on Indian Smart Infrastructure Development 773**

Bhogaraju Sai Deepthi (InkforTech - India); Korupalli Veera Rajesh Kumar (Vellore Institute of Technology, Chennai, India)

**Learning from Peers at the Wireless Edge 779**

Shuvam Chakraborty (University at Albany, SUNY, USA); Hesham Mohammed (University At Albany SUNY, USA); Dola Saha (University at Albany, SUNY, USA)

**In Sync with Today's Industrial System Clocks 785**

Rahul N. Gore, Elena Lisova, Johan Åkerberg and Mats Björkman (Mälardalen University, Sweden)

**Face Recognition: Challenges and Issues in Smart City/Environments 791**

G. B. Praveen (Pathpartner Technology Consulting Pvt. Ltd., India); Dakala Jayachandra (Path Partner Technology Pvt Ltd, India)

**Smart City Renovation using SDN Framework 794**

Madhukrishna Priyadarsini (Room No-201, School of Electrical Sciences, IIT Bhubaneswar & Odisha, India); Pooja Mittal and Padmalochan Bera (IIT Bhubaneswar, India)

blockchain: Cybersecurity & Blockchain Workshop

Room: Indian Affairs

**An Automated Solution for Improving the Efficiency of Cryptocurrency Mining 800**

Connie Man-Ching Yuen (Hong Kong Shue Yan University, Hong Kong); Ka-Ming Lau (Hong Kong Institute of Vocational Education, Hong Kong); Ka-Fai Ng (The Hong Kong University of Science and Technology, Hong Kong)

**Blockchain-based Interoperable Healthcare Using Zero-knowledge Proofs and Proxy Re-Encryption 805**

Bhavye Sharma (Maharaja Agrasen Institute of Technology, India); Raju Halder and Jawar Singh (IIT Patna, India)

**Detection of Algorithmically Generated Domain Names using LSTM 811**

Palak Vij and Sayali Nikam (BITS Pilani, India); Ashutosh Bhatia (Birla Institute of Technology and Science, Pilani, India)

**Distributed Off-chain Storage of Patient Diagnostic Reports in Healthcare System using IPFS and Blockchain 817**

Randhir Kumar. (NIT Raipur, India); Rakesh Tripathi (Indian Institute of Technology Guwahati, India); Ningrinla Marchang (North Eastern Regional Institute of Science and Technology, Arunachal Pradesh, India)

**Reputation Based Routing in MANET Using Blockchain 822**

Maqsood Abdul Careem and Aveek Dutta (University at Albany, SUNY, USA)

**Software wallet based secure participation in Hyperledger Fabric networks 828**

Anil Thota (Lovely Professional University, India); Prashant Upadhyay (Birla Institute of Technology, Mesra, India); Srihari Kulkarni and Parameswaram Selvam (IBM Software Labs, India); Balaji Viswanathan (IBM India Pvt Ltd, India)

**Evaluation of Feature and Signature based training approaches for Malware Classification using Autoencoders 834**

Sreenivas Sremath Tirumala (Auckland University of Technology); Maheswara Rao Valluri (Fiji National University, Fiji); David Nandigam (ATMC New Zealand, New Zealand)

**Deep Reinforcement Learning based Intrusion Detection System for Cloud Infrastructure 839**

Kamalakanta Sethi (Indian Institute of Technology, Bhubaneswar, India); Rahul Kumar (Indian Institute of Technology Bhubaneswar, India); Nishant Prajapati (National Institute of Technology Rourkela, India); Padmalochan Bera (IIT Bhubaneswar, India)

**Veriblock: A novel blockchain framework based on verifiable computing and trusted execution environment 845**

Lakshmi Padmaja Maddali (Tata Consultancy Services, India); Meena Singh (Tata Consultancy Services Limited, India); Rajan M A, Vigneswaran R, Srujana Kanchanapalli and Batsayan Das (Tata Consultancy Services, India)

**HTmRPL+: A Trust-Aware RPL routing protocol for Fog Enabled Internet of Things 851**

Nishanth Subramanian and Shashwatha Mitra G B (National Institute of Technology Karnataka, Surathkal, India); John Martin (National Institute of Technology, Karnataka, India); Chandra Sekaran (National Institute of Technology Karnataka, India)

**A Lightweight Intrusion Detection System using Benford's law and Network Flow Size Difference 856**

Kamalakanta Sethi (Indian Institute of Technology, Bhubaneswar, India); Rahul Kumar (Indian Institute of Technology Bhubaneswar, India); Nishant Prajapati (National Institute of Technology Rourkela, India); Padmalochan Bera (IIT Bhubaneswar, India)

**Privacy-Aware Switch-Controller Mapping in SDN-Based IoT Networks 862**

Vignesh Sridharan (National University of Singapore, Singapore); Kushan Sudheera Kalupahana Liyanage (National University of Singapore & Nanyang Technological University, Singapore); Mohan Gurusamy (National University of Singapore, Singapore)

**Fountain Coding for Bootstrapping of the Blockchain 868**

Rudrashish Pal (Indian Institute of Technology Bhilai, India)

Wednesday, January 8 3:45 - 5:30

gf: Graduate Forum

Room: GBR-1

**Cognitive Radio Networks with Energy Harvesting and Eavesdropping-Emulation Resilience 873**

Avik Banerjee and Santi Prasad Maity (Indian Institute of Engineering Science and Technology, Shibpur, India)

**Performance Evaluation of QoS in Marine Vehicle to Infrastructure (V2I) Network 876**

Dhanesh Raj (Amrita VishwaVidyaapeetham, India)

**Half-Duplex Attack: An Effectual Attack Modelling in D2D Communication 879**

Misbah Shafi (Shri Mata Vaishno Devi University, India); Rakesh Kumar Jha (School of Electronics and Communication Kakryal & Shri Mata Vaishno Devi University, India)

**VM Migration for Profit Maximization in Federated Cloud Data Centers 882**

Moustafa Najm and Venkatesh Tamarapalli (Indian Institute of Technology Guwahati, India)

**Energy efficient wireless communication for IoT enabled Greenhouses 885**

Ritesh Kumar Singh, Rafael Berkvens and Maarten Weyn (University of Antwerp - imec, Belgium)

**A LoRaWAN based Open Source IOT solution for monitoring Rural Electrification Policy 888**

Mohammed Samdani Shaik, Raghuram Chetty, Dipam Shah and Rahul Marathe (IIT Madras, India)

**Identifying Outdoor Context by Correlating Air and Noise Pollution Sensor log 891**

Biswajit Maity (National Institute of Technology, Durgapur, India); Yashwant Polapragada (NIT Durgapur, India); Arindam Ghosh (National Institute of Technology Durgapur, India); Sanghita Bhattacharjee and Subrata Nandi (National Institute of Technology, Durgapur, India)

**Online Signature Profiling using Generative Adversarial Networks 894**

Chandra Sekhar Vorugunti (Indian Institute of Information Technology- SriCity, India); Prerana Mukherjee and Viswanath Pulabaigari (Indian Institute of Information Technology SriCity, India)

**Joint Preference Metric for efficient resource allocation in co-existence of eMBB and URLLC 897**

Annapurna Pradhan (National Institute of Technology, Rourkela, India); Susmita Das (National Institute of Technology, India)

**Revenue Sharing in a Soft-Neutral Regime 900**

Fehmina Malik (IEOR, IIT Bombay, India); Manjesh K Hanawal (Indian Institute of Technology Bombay, India); Yezekael Hayel (LIA, University of Avignon, France); Jayakrishnan Nair (IIT Bombay, India)