



## IEEE International Conference on Advanced Networks and Telecommunications Systems

13-16 December 2021, IDRBT, Hyderabad, India

### Technical Track - 1 Communication Systems

December 14, 2021 (Tuesday)

11.30 AM – 1.00 PM

- 1. On the Optimal Threshold and Error Performance at Fusion Center for Diffusion-Based Molecular Communication System**  
Gaurav Sharma (Indian Institute of Technology Jammu, India); Ajay Singh (Indian Institute of Technology Jammu, India)
- 2. RSMA for IRS Aided 6G Communication Systems: Joint Active and Passive Beamforming Design**  
Aditya Jolly (Indian Institute of Information Technology Guwahati, India); Sudip Biswas (Indian Institute of Information Technology Guwahati, India); Keshav Singh (National Sun Yat-sen University, Kaohsiung, Taiwan)
- 3. Spatial Modulation-assisted Mobile Diffusive-Drift Molecular Communications**  
Sanjeev Sharma (Indian Institute of Technology (BHU) Varanasi, India); Rangeet Mitra (University of Quebec Montreal, India); Vimal Bhatia (Indian Institute of Technology Indore, India)
- 4. An Investigation of the Diversity Performance of Vehicular Visible Light Communications System under Dirty Headlights, Mobility, Atmospheric Turbulence, and Different Weather Scenarios**  
Pranav Sharda (Indian Institute of Technology Delhi, India); Manav Bhatnagar (Indian Institute of Technology Delhi, India)
- 5. Analysis of Probability of Collision of CAMs in Opportunistic Vehicular Communication**  
Alokojjwal Das and Dipamani Pathak (Indian Institute of Information Technology Guwahati, India); Kukil Khanikar (Indian Institute of Information Technology Guwahati, India)
- 6. Performance of a Cooperative Full-Duplex D2D Communication in Cellular Underlay**  
Suraj Parihar (Indian Institute of Information Technology Delhi, India); Kamal Agrawal (Indian Institute of Technology Delhi, India); Pratik Chakraborty (Indian Institute of Information Technology Kalyani, India); Shankar Prakriya (Indian Institute of Technology Delhi, India)