

**CALL FOR PAPERS: IEEE ANTS Women in Engineering (WIE)**  
**15-18 December 2024**  
**IIT Guwahati, Assam, India**

**WIE Chairs:**

Sonali Chouhan, IIT Guwahati, India  
Mydhili Nair, RVCE Bangalore, India  
Nidhi Simmons, Queen's University, Belfast, United Kingdom

**Important Dates:**

Paper Submission: 01 August 2024  
Acceptance Notification: 15 October 2024  
Camera Ready Paper Due: 30 November 2024

**EDAS Link to submit your papers:** <https://edas.info/N32426>

**Paper Submissions:** To submit the paper to this track, **the first author of the paper and the presenter (can be non-1st author) must be a female.** Authors of accepted papers are expected to physically come and present the paper. The Call for Papers for WIE Track is the same as the main conference theme and the papers should be submitted through WIE Track on EDAS. Authors can submit short (4 page) and regular (6 pages) papers on research and development focusing on (but not limited to) the following thrust areas:

<p><b>Wireless Communication and Networks:</b></p> <ul style="list-style-type: none"><li>● 5G-Advanced and 6G Technologies</li><li>● Communication theory and systems</li><li>● AI/ML for Communications and Networking</li><li>● Cellular and Broadband Networks</li><li>● Information and Coding Theory</li><li>● Cognitive Radio Networks</li><li>● Spectrum Issues and Requirements</li><li>● Multi-Antenna Communications</li><li>● Device to Device (D2D) Communications</li><li>● High Altitude Networks</li><li>● Mobility Models and Mobile Networks</li><li>● Mobile Backhaul Networks</li><li>● Underwater Communications and Networking</li><li>● Aerial Communications and Networking</li><li>● Machine-to-Machine (M2M) networks</li><li>● Satellite and Radar Communications</li><li>● Unlicensed Band Communication</li><li>● Smart Antennas</li></ul>	<p><b>Network Technologies and Applications:</b></p> <ul style="list-style-type: none"><li>● Defence Communications and Networking</li><li>● Software Defined Networks</li><li>● Network Function Virtualization</li><li>● Big Data and Analytics in Smart City</li><li>● Augmented and Virtual Reality</li><li>● Cyber-physical systems and networks</li><li>● Smart Grid Communication Networks</li><li>● M-Healthcare</li><li>● Rural and Remote Connectivity</li><li>● Blockchain for Communications and Networking</li><li>● Security, Privacy, and Trust</li><li>● Adversarial Machine Learning in Networking and Communications</li><li>● Signal Processing for Communications</li><li>● Network Economics and Pricing</li><li>● Spectrum Sharing Models</li><li>● Game Theory with Networks</li><li>● Future Networks and Communications</li></ul>
<p><b>Optical Communication and Networks:</b></p> <ul style="list-style-type: none"><li>● Free Space Optics</li><li>● Visible Light Communication and Networks</li><li>● Optical Fiber Communication and Networks</li></ul>	<p><b>Emerging Technologies:</b></p> <ul style="list-style-type: none"><li>● Integrated Sensing and Communication</li><li>● Quantum Communication and Networks</li><li>● Post Quantum Security and Privacy</li></ul>

<ul style="list-style-type: none"> <li>● Optical Access Networks</li> <li>● Quantum Optical Communications</li> <li>● Optical Datacenter Networks</li> <li>● Hollow-Core Fiber Communication</li> <li>● Subsea Communication and Networks</li> <li>● Fiber-wireless convergence</li> <li>● Disaster-Resilient networks</li> <li>● Optical Backhaul for Wireless Networks</li> <li>● Optical Network Architectures</li> <li>● Optical Networks for Cloud/Fog</li> <li>● Hybrid Fiber-Wireless Networks</li> </ul>	<ul style="list-style-type: none"> <li>● Quantum Security and Privacy</li> <li>● Satellite Internet</li> <li>● Intelligent Meta-Surfaces</li> <li>● Ultra-Reliable and Low-Latency Communications</li> <li>● Green Communications and Networking</li> <li>● Molecular Communications</li> <li>● Nano-networking</li> <li>● Millimeter-Wave Communications</li> <li>● Edge technologies</li> <li>● UAV Communications and networking</li> <li>● IoT Networks</li> <li>● Industry 4.0 Networking and Communications</li> <li>● Semantic Communications</li> <li>● Haptic and Holographic Technologies</li> <li>● Testbed and Prototype Implementation</li> </ul>
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After review, all accepted and presented papers will appear in IEEE Xplore. **One conference registration by the author covers three papers** which are authored or co-authored by the author. The conference proceedings are indexed in SCOPUS and other major indexing platforms. IEEE ANTS 2024 will feature workshops, tutorials, and panel discussions, collocated with the main conference. IEEE ANTS will present **BEST PAPER AWARDS** for each track during the conference. Several **travel grants** are available for conference attendees and authors. The authors of the selected (accepted) papers will be invited to submit the **extended versions** of the papers to the **special issues of Springer Nature's journals, namely, Wireless Personal Communications and Photonic Network Communications.**

Please direct any questions to WIE Chairs Sonali Chouhan ([sonali@iitg.ac.in](mailto:sonali@iitg.ac.in)), Mydhili Nair, ([mydhilinair@rvu.edu.in](mailto:mydhilinair@rvu.edu.in)) and Nidhi Simmons ([Nidhi.Simmons@qub.ac.uk](mailto:Nidhi.Simmons@qub.ac.uk)).