CGC UNIVERSITY
MOHALI
Shaping Tomorrow, Today

Our Legacy

INTERNATIONAL CONFERENCE ON GREEN AND SUSTAINABLE WIRELESS NETWORKS (ICGSWN 2026)

Date: 29th - 30th May, 2026



Organized by:- School of Engineering and Technology (SET)
In association with Advanced Centre of Research & Innovation,
CGC University, Mohali, Punjab, India-140307

ABOUT

Founded in 2025 under the Chandigarh Educational Society, CGC University, Mohali builds on a 25+ year legacy of academic excellence. With NAAC A+ Accreditation, NIRF rankings, NBA Accreditation and a QS I-GAUGE Platinum rating, the university stands for quality education, innovation, and student success.

Driven by an AI-enabled ecosystem and a Gen Z-centered vision, CGC University blends modern technology with industry-focused learning to prepare students for the future of work. Its state-of-the-art infrastructure, experienced faculty, and focus on holistic growth empower students to become skilled professionals, entrepreneurs, and leaders. With affordable education and a global outlook, CGC University, Mohali is truly a next-generation destination for higher learning.



ABOUT THE SCHOOL OF ENGINEERING AND TECHNOLOGY (SET)

The School of Engineering and Technology (SET) at CGC University, Mohali, is a centre of excellence in engineering education, innovation, and industry-oriented learning. The school offers undergraduate and postgraduate programs designed to provide students with a strong foundation in core and emerging engineering disciplines, including computer science, artificial intelligence, data science, cybersecurity, software development, cloud computing, and other advanced technologies. With highly qualified faculty, state-of-the-art laboratories, and a curriculum aligned with current industry requirements, SET is committed to nurturing competent engineers, technologists, and researchers capable of addressing global technological challenges. Beyond academics, the school actively promotes innovation, research, and entrepreneurship, preparing students to become future leaders in sectors such as IT services, engineering solutions, automation, data analytics, and digital transformation.



ABOUT THE CONFERENCE

The International Conference on Green and Sustainable Wireless Networks (ICGSWN 2026) serves as a premier global forum bringing together researchers, academicians, industry experts, innovators, and policymakers to explore the future of environmentally responsible and energy-efficient wireless communication systems. As the demand for high-speed, intelligent, and ubiquitous connectivity continues to rise, the conference focuses on solutions that balance technological advancement with ecological sustainability. ICGSWN 2026 aims to showcase cutting-edge research, breakthrough technologies, and impactful real-world implementations that contribute to greener wireless networks. The conference promotes interdisciplinary dialogue across emerging domains such as 5G/6G communication, IoT and smart systems, AI/ML-driven network optimization, blockchain applications, and digital twin technologies. With sustainability at its core, the event encourages collaborative efforts to reduce energy consumption, minimize carbon footprints, and ensure long-term environmental resilience within the wireless communication landscape. The conference encourages **interdisciplinary research** bridging technology, environment, and policy to promote **sustainable digital ecosystems.**



CALL FOR PAPERS

Researchers, academicians, and industry experts are invited to submit original articles within the scope of the conference topics. Every paper will undergo a peer review process, with evaluations based on originality, technical proficiency, in-depth content, and conference relevance. All participants need to sign a declaration of originality before final submission.

- **Paper Submission for Abstract:** Authors are requested to submit their original, unpublished abstracts, which should be no more than 300 words and five keywords. Only MS Word files in the format of an abstract (English font: Times New Roman) should be submitted. The name of the corresponding author needs to be underlined with a complete mailing address or highlighted with an asterisk (*).
- **For Full-Length Paper:** The authors are requested to submit their manuscripts, which should not exceed 6000–7000 words, in the form of research and review papers. Every article will go through the standard peer review process, and should adhere to the less than 10% plagiarism guidelines.

For More Details About the Conference,

Please Visit https://www.cgcuniversity.in/conference/icgswn/

For Enquiry, Please Contact at icgswn@cgcuniversity.in

Paper Submission Link: https://cmt3.research.microsoft.com/ICGSWN2026

REGISTRATION FEES

Delegates	*Registration Fee* *(For Participation & Full Paper Submission)*	*Registration Fee* *(For Participation only)*
Research Scholar/ Academicians	*12000 (INR)*	*3000 (INR)*
Corporate/ Industry	*15000 (INR)*	*4000 (INR)*
Foreign Delegates	*$150*	*$100*

Track 1: Sustainable Wireless Networks

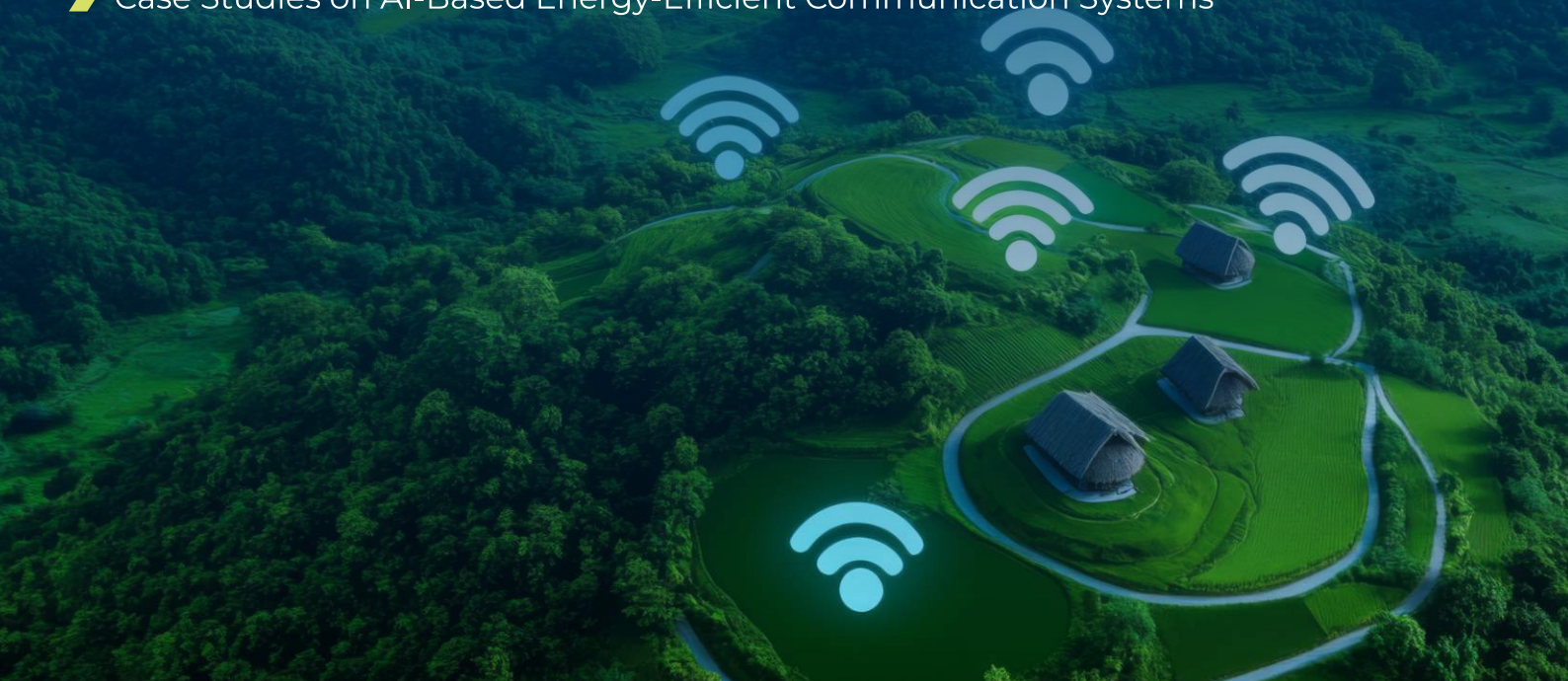
- Energy-Efficient Network Architectures for Next-Generation Wireless Systems
- Green Communication Protocols for Reduced Power Consumption
- Resource Optimization Techniques for Sustainable Network Design
- Low-Power and Energy-Aware Routing Mechanisms
- Network Virtualization and Softwarization for Energy Savings
- Case Studies and Practical Implementations of Green Wireless Networks

Track 2: Green Energy Solutions

- Renewable Energy–Powered Wireless and Communication Systems
- Integration of Solar, Wind, and Hybrid Energy Sources in Networks
- Energy Harvesting Techniques for Self-Sustaining Wireless Nodes
- Advanced Energy Storage Technologies for Reliable Green Networks
- Power Management Strategies for Off-Grid and Remote Deployments
- Real-World Applications of Green Energy Solutions in ICT Infrastructure

Track 3: AI and ML for Energy Optimization

- Predictive Energy Management Using Artificial Intelligence
- Machine Learning Models for Energy Consumption Forecasting
- Intelligent Algorithms for Sustainable Network Operations
- AI-Driven Resource Allocation and Load Balancing
- Reinforcement Learning for Adaptive Energy Optimization
- Case Studies on AI-Based Energy-Efficient Communication Systems



Track 4: 5G, 6G, and Emerging Wireless Technologies

- Green Design Principles for 5G and Beyond Networks
- Energy-Efficient Massive MIMO and Beamforming Techniques
- Sustainable Spectrum Management and Network Planning
- AI-Enabled Green Architectures for 6G Networks
- Ultra-Low Latency and Energy-Aware Communication Paradigms
- Future Trends and Challenges in Sustainable Next-Gen Wireless Technologies

Track 5: IoT, Smart Systems, and Digital Twins

- Smart Cities and Sustainable IoT Applications
- Energy-Efficient IoT Architectures and Protocols
- Digital Twin Modeling for Energy Optimization and Efficiency
- Intelligent Monitoring and Control Systems for Smart Infrastructure
- Edge and Fog Computing for Sustainable IoT Ecosystems

IMPORTANT DATES:

Paper Submission Deadline:
30th March, 2026

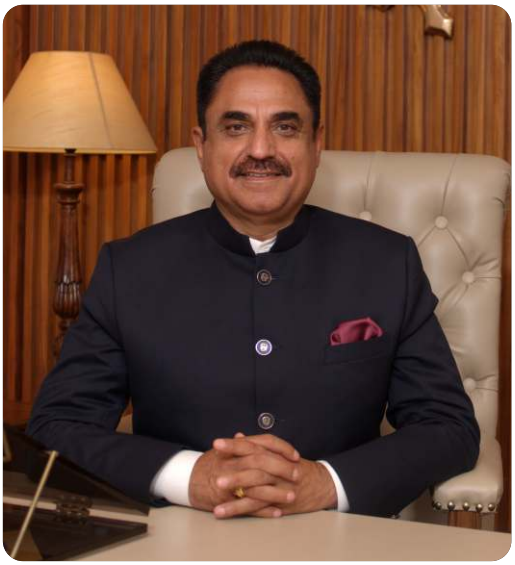
Early Bird Registration:
10th April, 2026

Registration Deadline:
30th April, 2026

Date of Conference:
29th - 30th May, 2026



CHIEF PATRON



Sardar Rashpal Singh Dhaliwal

Father of Education
Hon'ble Chancellor, CGC University, Mohali

PATRON



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Managing Director,
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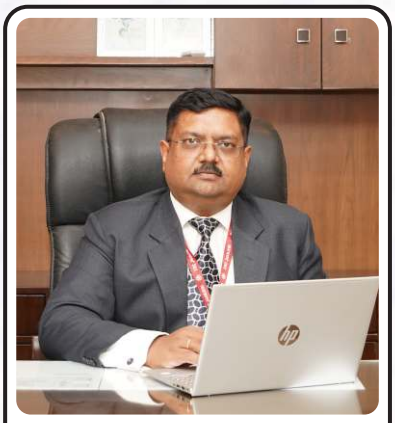

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