

*******DEADLINE EXTENDED TO 5TH APRIL 2023*******

4th International Conference on Innovative Trends in Electronics Engineering

&

Symposium on Advances in Optics and Photonics

27th April, 2023
BLENDED MODE (Online & Offline)



ICITEE 2023



<https://icitee-2023.ecedpup.ac.in/>

Paper Submission: <https://cmt3.research.microsoft.com/ICITEE2023>



HIGHLIGHTS

- Promoting Women/Young Professionals in Engineering and Photonics.
- Discount on registration fee for the author's contributing more than 1 paper.
- Discount on registration fee to 10 participants among Women in Photonics, as per reviewer rating and eligibility.
- Best paper award in each track and symposium.
- Eminent Keynote Speakers.
- **The selected papers among the accepted will be published in Journal of Punjab Academy Sciences (<http://jpas.in>).**

TRACKS

- Track 1: Communication Systems and Networks
- Track 2: RF, Microwave, VLSI and Other Emerging Technologies
- Track 3: Computer Systems and Applications
- Track 4: Engineering and Operation Management
- Symposium on Advances in Optics and Photonics

IMPORTANT DATES

- Submission Deadline : 5th April 2023
- Decision : Within 10 working days of submission
- Registration : 30th March 2023 (after acceptance)
- Camera Ready Paper :15th April 2023

*Check conference website for any change.

ORGANIZED BY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Punjabi University, Patiala, Punjab, India (147002)

In association with

IEEE-Prakash Bharati and IEEE Photonics Society, Rajasthan Chapter, Delhi Section

CONTACT DETAILS

Dr Ranjit Kaur (Convener)
Dr. Ramandeep Kaur
(Organising Secretary)

Dr Simranjit Singh (Organizing Secretary)
Email : sjsingh@pbi.ac.in
Contact No. : +91 98725 52898

Joint-Organising Secretary
Er. Karamjit Kaur
Dr. Amandeep Singh Bhandari

4th International Conference on Innovative Trends in Electronics Engineering (ICITEE 2023) and Symposium on Advances in Optics and Photonics

In association with IEEE-Prakash Bharati and IEEE Photonics Society, Rajasthan Chapter, Delhi Section

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Punjabi University, Patiala, Punjab, India (147002)



ABOUT THE DEPARTMENT AND UNIVERSITY

The Department of Electronics and Communication Engineering was one of the Departments started in the year 2003, under the aegis of University College of Engineering, established in the year 2003, at Punjabi University, Patiala (Main Campus). We made a modest beginning with a single undergraduate course of four-year duration (Bachelor of Technology in Electronics and Communication Engineering). With a view to provide quality education, we took a leap forward by launching an Engineering Management Integrated Program for the overall development of the students in engineering and management skills, and a two-year course, i.e. Master of Technology in Electronics and Communication Engineering, in 2009 followed by a three-year Master of Technology course in Electronics and Communication Engineering, in 2011 on a part-time basis. With the abolishment of the University College of Engineering in September 2013, the Electronics and Communication Engineering branch was awarded the status of an independent Department. As per the demand, Department has started Bachelor of Technology in Electronics and Computer Engineering. Till now, from ECE Department, more than 50 candidates did their PhDs and produced more than 150 SCI publications. In the Department, many research projects worth ~3.5 Crore are completed/on-going.

As far as University is concerned, Punjab Assembly established Punjabi University, Patiala under the Punjab Act No. 35 of 1961. Dr. S. Radhakrishnan, the then President of India laid the foundation of Punjabi University on June 24, 1962. It was established on April 30, 1962, in the erstwhile princely state of Patiala with the main objective of furthering the cause of Punjabi language, art, and literature. Punjabi University has since evolved into the largest University in the state. This is the second University in the world to be named after a language. The University started working from its present lush green, pollution-free, 316 acres campus in 1965. Initially, University's jurisdiction area was fixed as the 16 km radius having only 9 colleges. After 1969, 43 colleges affiliated with it. Spread over 600 acres of land, its 1500+ teachers are imparting instruction and guidance to nearly 14,000+ students in a multi-faceted, multipronged, and multi-faculty environment comprising 70+ Teaching and Research Departments/Chairs on its Campus, 27 Regional Centre/ Neighbourhood Campuses/Constituent Colleges and 274 Colleges affiliated to it.

ABOUT THE CONFERENCE

The present conference aims to bring together leading academic scientists, researchers, and research scholars to exchange and share their experiences and research results about all aspects of Electronics Engineering. It is a humble effort by the Department of Electronics & Communication Engineering to popularize Electronics Engineering at all levels mentioning its important role in industrial, technological, and economic developments. The motive of the conference is to provide the premier interdisciplinary forum for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and concerns, practical challenges encountered and the solutions adopted in the field of Electronics Engineering. This conference will be held in blended mode. The conference conducts a plagiarism check on all submitted papers. Plagiarism and self-plagiarism apply to all works.

From this year, under this Conference, the Symposium on Advances in Optics and Photonics is started. The main aim of this symposium is to promote optics and photonics among women, minority, rural and young professionals.

KEYNOTE SPEAKERS

1. Prof. Li Qian
University of Toronto, Canada
<https://www.ece.utoronto.ca/people/qian-l/>
2. Prof. Lawrence R Chen
McGill University, Canada
<https://www.mcgill.ca/ece/lawrence-r-chen>
3. Prof. Srinivas Talabuttla
Professor, IISc Bangalore, India
Chair, IEEE Bangalore Section
<https://ece.iisc.ac.in/~tsrinu/>
4. Prof. Mukesh Kumar
Professor, IIT Indore, India
<http://people.iiti.ac.in/~mukesh.kr/>
5. Prof. Mable Fok
Associate Professor, University of Georgia, USA
<https://engineering.uga.edu/people/profile/mable-fok-ph.d>
6. Mr. Rahul Kaundal
(Speaker from industry)
Head-Networks (RAN/Transport)
Airtel-Vodafone, UK
7. Mr. Madhukar Tripathi
(Speaker from Industry)
Associate Director- Optical Business & Marketing,
Anritsu India Pvt. Ltd
8. Prof. Carmen Vázquez García
(Professor)
Professor at Univ Carlos III de Madrid, Spain
<https://spie.org/profile/Carmen.Vazquez-Garcia-14796?SSO=1>

TRACKS

Track 1: Communication Systems and Networks

1. Advanced communication systems and networks
2. Secure communications
3. MIMO systems
4. 5G and 6G technologies
5. RADAR and Satellite Communication
6. Wireless sensor networks
7. Channel coding
8. Digital Signal Processing
9. All related areas

Track 2: RF, Microwave, VLSI and Other Emerging Technologies

1. Antenna theory and design
2. Advances in microwave systems
3. Microwave devices
4. VLSI design and applications
5. Nanotechnology
6. MIMO and Massive MIMO antennas
7. IOT antenna
8. Electrical Engineering and Applications
9. Green communication
10. Image and speech processing
11. RF energy harvesting and applications
12. All related areas

Track 3: Computer Systems and Applications

1. ML & AI
2. Data mining
3. Internet of Things
4. Natural language processing
5. Computer networks
6. Computer hardware
7. Cloud computing
8. Optimization techniques
9. All related areas

Track 4: Engineering and Operation Management

1. Engineering Economy
2. Public administration
3. Enterprise Engineering
4. Entrepreneurship
5. Global Operations and Cultural Factors
6. Healthcare Management
7. Industrial Engineering and -Operations Management Education
8. Industrial Marketing and Consumer Behavior
9. Operations Strategy and Performance Management
10. Product Management
11. Production Planning and Control
12. Production Systems Design and Management
13. Project Management
14. Quality Management
15. Reliability and Maintenance
16. Risk and Disaster Management
17. Service Systems
18. Social Responsibility, Environment and Sustainability
19. Strategic Management
20. Supply Chain and Logistics and other related areas

Symposium on Advances in Optics and Photonics

1. Optical communication (wireless/wired)
2. Silicon photonics
3. Optoelectronics devices
4. Optical signal processing
5. AI and ML based optics
6. All-optical information security
7. Advanced optical networks
8. Integrated optics
9. Optical materials
10. All related areas

ORGANIZING COMMITTEE

Chief Patron

Prof. Arvind, Vice Chancellor, Punjabi University, India

Patron

Prof. Ashok Kumar Tiwari, Dean Academic, Punjabi University, India

General Chairs

Prof. Manjeet Singh Patterh, Dean Research & Dean Engineering, Punjabi University, India

Prof. Navjot Kaur, Registrar, Punjabi University, Patiala, India

Advisory Chairs

Prof. Manpreet Singh Manna, Chair IEEE Prakash Bharati & IEEE Photonics Society (Delhi Section, Rajasthan Chapter)

Prof. Srinivas Talabuttla, Professor, IISc Bangalore and Chair, IEEE Bangalore Section

Convener

Prof. Ranjit Kaur, Head ECE, Punjabi University, India

Honorary Chairs

Prof. Chennupati Jagadish, Australian National University, Australia

Prof. M. Tariqul Islam, UKM Malaysia, Malaysia

Prof. Hussain Mustafa, Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt

Prof. Ram Bilas Pachori, IIT Indore, India
Prof. Y. N. Singh, IIT Kanpur, India
Prof. Brajesh Kumar Kaushik, IIT Roorkee, India
Prof. Akhtar Kalam, Victoria University, Australia

Conference Chairs

Prof. Gurmeet Kaur, Professor, Punjabi University, India
Prof. Manjit Singh Bhamrah, Professor, Punjabi University, India
Prof. Kulwinder Singh, Professor, Punjabi University, India

Executive Committee

Prof. Arun Singh, PEC Chandigarh, India
Prof. Ramesh Kumar, NIT Kurukshetra, India
Dr. Charanjit Singh, Punjabi University, India
Dr. Amandeep Singh Sappal, Punjabi University, India

Advisory Committee

Prof. Ghanshaym Singh, MNIT Jaipur, India
Prof. Khaled Rabie, MMU, UK
Prof. Mithlesh Kumar, RTU Rajasthan, India
Prof. Mainuddin, Jamia Millia Islamia, Delhi, India
Prof. Celestine Iwendu, U of Bolton, UK
Prof. Kandarpa K. Sarma, Gauhati University, India
Prof. R. Chaudhary, IIT Kanpur, India
Prof. Subhash Arya, NEHU, Shillong, India
Prof. M. L. Singh, GNDU Amritsar, India
Prof. S. S. Gill, NITTTTR Chandigarh, India
Prof. S. Albert Alexander, VIT Vellore, India
Prof. Dilbag Singh, NIT Jalandhar, India
Prof. Subhashish Banerjee, IIT Jodhpur, India
Dr. Sonia Goyal, Punjabi University, India
Dr. Reecha Sharma, Punjabi University, India

Finance Chairs

Dr. Harjinder Singh, Punjabi University, India
Dr. Deepak Saini, Punjabi University, India
Er. Karamjit Kaur, Punjabi University, India

Organizing Secretaries

Dr. Simranjit Singh, Punjabi University, India
Dr. Lovkesh, Punjabi University, India

Women in Electronics and Photonics

Dr. Amrit Kaur, Punjabi University, India
Dr. Ramandeep Kaur, Punjabi University, India
Dr. Gurpreet Kaur, CU, India
Dr. Mandeep Kaur, Punjabi University, India
Mrs. Bhavna Utreja, Punjabi University, India
Prof. R. G. Sangeetha VIT, Chennai, India
Prof. Preeta Sharan, Oxford College of Engineering, Bangalore, India
Dr. Vohra, TIET, Patiala
Ms. Anam, SAMEER, MeitY GOI, India
Dr. Gaganpreet, TIET, Patiala, India
Dr. Inderpreet Kaur, Vice Chair, IEEE Photonics Society, Delhi Section, Rajasthan Chapter
Dr. Navneet Kaur, GNDEC, Ludhiana, India
Dr. Gurpreet Kaur, IIIT Una

Student Interns

Mr. Kartar Singh, B.Tech ECE, 3rd year
Ms. Nibhapriy Kaur, B.Tech ECE, 3rd year

Industry Associates

Dr. Ahmad Atieh, VP Optiwave & Adjunct Professor in U of Ottawa, Canada
Dr. Umesh Tiwari, CSIR-CSIO Chandigarh, India
Mr. Rahul Kondal, Head-Networks, Airtel-Vodafone, UK
Mr. S. K. Aggrawal, Entuple Technologies, India
Mr. Mandeep Singh, Agamental Pvt. Ltd., India
Mr. Madhukar Tripathi
Associate Director- Optical Business & Marketing, Anritsu India Pvt. Ltd

Young Professionals

Dr. Subhash Singh, U of Rochester, USA
Dr. Brijesh Kumbhani, IIT Ropar, India
Dr. Karamdeep Singh, NIT Kurukshetra, India
Dr. G. S. Lotey, U of Texas, USA
Dr. Sukhjot Singh Sehra, Wilfrid Laurier University, Canada
Dr. Mohamed Adel Hammad, Menoufia University, Egypt
Dr. Roshan Kumar, Zheziang University, China
Dr. Rakesh Goyal, PTU, India
Dr. Rajandeep Singh, GNDU Amritsar, India

PAPER SUBMISSION GUIDELINES

Paper should be formatted as per IEEE guidelines given at <https://www.ieee.org/content/dam/ieee-org/ieee/web/org/conferences/Conference-template-A4.doc>

Authors can submit their paper by clicking <https://cmt3.research.microsoft.com/ICITEE2023>

->50% discount on the registration of second paper from same author. Author should register for both papers.

->Authors have to submit paper both in word and .pdf formats.

REGISTRATION FEE*

Online mode:

For students/research scholars: Rs. 2000/-
For faculty/scientists: Rs. 3500/-
For Industry persons: Rs. 5000/-
For international participants: USD 100

Offline mode:

For students/research scholars: Rs. 2500/-
For faculty/scientists: Rs. 4000/-
For Industry persons: Rs. 7000/-
For international participants: USD 150
Attendee without presentation: Rs. 1000/-

**May be changed as per core committee decision. The information will be updated on Conference website.*

PUNJABI UNIVERSITY



NEARBY TOURIST DESTINATIONS

Chandigarh (68 km)



Rock Garden



Sukhna Lake

Amritsar (230 km)



Jallianwallah Bagh



Golden Temple

Patiala (0 km)



Dukhniwaran Sahib



Qila Mubarak