2nd International Conference On Signal Processing and Computer Vision

(SIPCOV-2025)

Financially sponsored by Anusandhan National Research Foundation (ANRF), SERB

AUGUST 8 & 9, 2025

Organized by
Department of Electronics and Communication Engineering
National Institute of Technology Silchar
Assam, India

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ABOUT SIPCOV 2025

SIPCOV 2025 is the 2nd edition of the international conference series dedicated to advancing research and innovation in Signal Processing and Computer Vision. The conference aims to bring together renowned researchers, industry professionals, and academicians from leading institutions worldwide to foster collaboration, knowledge exchange, and interdisciplinary discussions.

Serving as a dynamic platform, SIPCOV 2025 will provide opportunities for participants to:

- Share groundbreaking ideas and recent advancements
- Present cutting-edge research findings
- Explore novel methodologies
- Address emerging challenges in the field

The conference will cover a wide range of real-world applications, including but not limited to:

- Image and Video Processing
- Medical Imaging and Technology

By bridging the gap between academia and industry, SIPCOV 2025 aims to facilitate meaningful interactions, drive technological advancements, and contribute to innovative solutions that address societal challenges.

ABOUT THE INSTITUTE

National Institute of Technology (NIT) Silchar, an institute of national importance under the NIT Act, was established in 1967 as Regional Engineering College (REC) Silchar in Assam. In 2002, it was upgraded to the status of NIT from REC. NIT Silchar has situated on the banks of the river Barak and has a sprawling campus spread over 600 acres of land on Silchar's outskirts. The landscape of NIT Silchar is beautiful, with natural lakes and hillocks surrounded by tea gardens. The climate of Silchar during July is delightful, with an average temperature of around 20-250C. NIT Silchar is a fully residential institution with nine hostels for boys and three hostels for girls.NIT Silchar is a teaching and research institute which steps in the various national and international ranking frameworks.

ABOUT THE DEPARTMENT

The Department offers B.Tech. in Electronics and Communication Engineering and M.Tech. in two specializations (i) Micro-Electronics and VLSI Design & (ii) Communication and Signal Processing Engineering. This department also offers a Ph.D. in Electronics and Communication Engineering. The state-of-the-art laboratory facilities exist in the department to facilitate the UG, PG, and Ph.D. scholars to research the frontier research areas of Electronics and Communication Engineering. The faculty members are specialized in diverse fields, and there is a commendable research ambiance in the department. Department of Electronics and Communication Engineering takes up R & D projects sponsored by various funding agencies such as DST, SERB, BARC, MeitY CSIR, and many more.

CALL FOR PAPERS

The Conference solicits papers in the areas of Signal, Image, and Video Processing, and Medical Imaging and Technology. Original and unpublished research papers from all viewpoints, including theory, practice, experimentation, and Survey highlighting specific research domains are invited from researchers, academicians and professionals throughout the globe for presentation in the technical sessions of the conference. The maximum allowable length of the paper is 12-15 pages (including figures and references) for regular research articles. Three experts will blindly review articles to decide their suitability for publication at the conference. SIPCOV 2025 has been officially accepted for publication as a post-proceedings volume in the Communications in Computer and Information Science (CCIS) series, which is indexed in Scopus, Web of Science, Google Scholar, and other major academic databases..

TOPICS AND TRACKS OF SIPCOV- 2025

TRACK 1: SIGNAL, IMAGE, AND VIDEO PROCESSING

Signal, Image, and Video Processing
Audio, Speech and Music Processing
Deep learning for Images and Video
Supervised and unsupervised Learning Methods
Data Analytics and Machine Learning
Computer graphics and visualization
Human Biometrics and Security Systems
Social Network Analysis
Natural language Processing and Sentiment Analysis
Information retrieval
Virtual Reality and 3-D Imaging
Multimedia Security and Forensics

TRACK 2: MEDICAL IMAGING AND TECHNOLOGY

Medical Image Analysis
Computer-aided diagnosis
Biomedical applications in molecular, structural, and functional imaging
Ultrasonic imaging and tomography
Medical Signal Acquisition, Analysis, and Processing
Deep learning for Medical Imaging
Biomedical & Health Informatics
Applications in Electronic Health Records
Neural and Rehabilitation Engineering
Biomedical Engineering Education and Society
Digital pathology
Health monitoring devices
Neuroimaging, X-ray, CT, PET, and SPECT
Image perception, observer performance, and technology assessment
Affordable prototype in Medical Imaging

IMPORTANT DATES

PAPER SUBMISSION STARTS: FEBRUARY 17, 2025
PAPER SUBMISSION DEADLINE: JUNE 17,2025
PAPER DECISION: JULY 4, 2025
FINAL PAPER SUBMISSION: JULY 9, 2025
REGISTRATION DEADLINE: JULY 14, 2025
CONFERENCE DATES: AUGUST 8-9, 2025

PAPER SUBMISSION LINK AND GUIDELINES

Submissions should be made according to the Springer CCIS Conference format (LaTeX template, or Word template).
Papers should be submitted through the Microsoft CMT
https://cmt3.research.microsoft.com/SIPCOV2025
The papers should be in English. The maximum full-length size of the paper should be 12-15 pages (Including references). Any published work or other conference/journal work submitted will be rejected in the preliminary stage.
All papers will be checked by Plagiarism checker software.The paper submissions must follow the Springer CCIS Conference formatting guidelines.

PUBLICATIONS

All accepted and presented papers will be published by Springer in the Communications in Computer and Information Science (CCIS) series (Officially approved), which is indexed in Scopus, Web of Science, Google Scholar, and other major scientific databases.

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UNIVERSITY JEAN MONNET,
SAINT-ESTIENNE, FRANCE**

**BORIS M. PUTRYA
,NATIONAL RESEARCH
UNIVERSITY OF ELECTRONIC
TECHNOLOGY (MIET), MOSCOW,
RUSSIA**

**PROF. MANAS KAMAL BHUYAN ,
INDIAN INSTITUTE OF
TECHNOLOGY GUWAHATI, INDIA**

**PROF. A.A. BAZIL RAJ ,
DEFENCE INSTITUTE OF
ADVANCE TECHNOLOGY, INDIA**

**PROF. MAHASWETA SARKAR
SAN DIEGO STATE UNIVERSITY
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