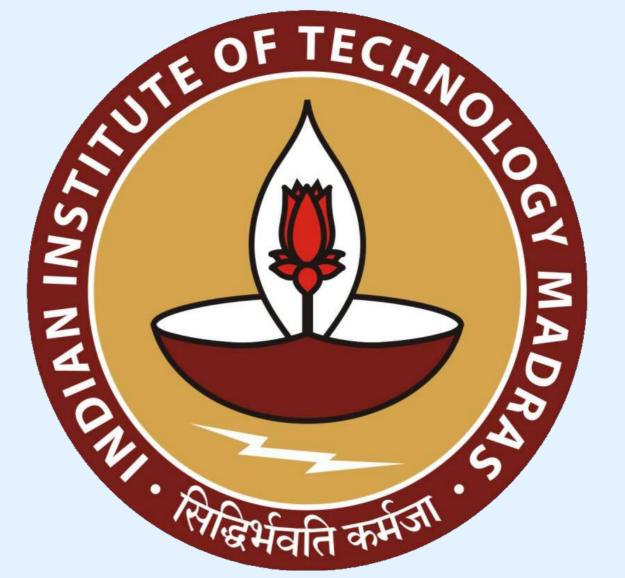# NCC 2024

28 Feb - 02 March 2024 // IIT Madras

30th National Conference on Communications

Jointly organized by IIT Madras, and IIT Tirupati

Call for Papers and Submissions

https://iittp.ac.in/ncc2024

The National Conference on Communications (NCC) is the flagship conference of India in the area of Communications, Signal Processing and Networks. It has been organized every year, starting from the year 1995, by the Joint Telematics Group (JTG) of the Indian Institutes of Technology and the Indian Institute of Science. More information on the previous editions of NCC can be found at http://www.ncc.org.in/. The Thirtieth National Conference on Communications (NCC-2024) will be jointly organized by Indian Institute of Technology Madras, and Indian Institute of Technology Tirupati, during 28th February- 2nd March 2024. NCC-2024 will be held as in-person event at IIT Madras. The conference will feature technical paper sessions, poster sessions, tutorials, workshops and plenary and invited talks by renowned researchers from around the globe. Prospective authors are encouraged to submit their original research findings to the following and other related areas:

Important Dates

Paper Submission Deadline

~~October 8, 2023~~
October 13, 2023

Acceptance Notification
November 30, 2023

Camera Ready Submission &
Early Bird Registration

December 30, 2023

Organizing Committee

General Chairs:
Krishna Jagannathan (IITM) [krishnaj@ee.iitm.ac.in]
Uday Khankhoje (IITM) [uday@ee.iitm.ac.in]

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TPC co-chairs (Communications)
Srikrishna Bhashyam (IITM)
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TPC co-chairs (Signal & image processing)
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TPC co-chairs (Network and learning theory)
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Workshop and tutorials
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Communications

- Communications theory and systems
- Information and coding theory
- Wireless communications
- Satellite and space communications
- Quantum communications and computing
- Security and privacy issues in communications
- Smart grid and power line communications
- Edge communications
- Machine learning/AI- based solutions for wireless communications
- Energy harvesting and green communications
- Molecular, biological and multi-scale communications

Network and learning theory

- 5G/B5G/6G/next-generation networks
- Wireless and wireline networks
- Quantum networking
- Big data, machine learning and AI for networks
- Biological networks
- Cloud & fog/edge computing and networking
- Complex networks/ social networks
- Cyber-physical systems / IoT
- Network economics and pricing
- Network security and privacy
- Sensor and ad hoc networks
- Software-defined networking

Signal & image processing

- Adaptive signal processing
- Biomedical signal processing
- Detection and estimation
- DSP implementation and architectures
- Graph signal processing
- Image, multimedia and video signal processing
- Secure signal processing
- Pattern recognition and machine learning
- Optimization for signal processing
- Quantum signal processing
- Speech, audio and language processing
- Sparse signal processing
- Graph signal processing
- Applications in astronomy/astrophysics

RF & optical communication

- Microwave Devices and Meta surfaces
- Antennas and Phased Arrays
- Microwave/mm-Wave/TeraHertz Communication and Imaging
- Optimization and Machine learning aided design of Antennas and Microwave Components
- Radars , Remote sensing and Wireless Power Transfer
- Optical communication
- Optical networks and systems
- Optical network security
- Visible and IR free-space optical communication systems
- Optical interconnect technologies

Prospective authors are encouraged to submit original technical papers that have not been published or submitted elsewhere for publication in the conference proceedings and for presentation in the conference. Submitted papers in two columns format should be FOUR to SIX A4 size pages in length, should use font size no smaller than 10 points, and have margins on all four sides as per the IEEE conference format. All submitted papers will be double blind peer-reviewed for technical content and scope by a technical program committee. The paper submission process will be handled through EDAS.

Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements. Detailed information on technical paper submission, tutorials, workshops, invited talks, accommodation and travel will be posted on the conference website.