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3RD International Conference on Intelligent Signal Processing and Effective Communication Technologies (INSPECT-2026)

From Intelligent Signal Processing to Next-Generation Communication Systems!

IIT Patna, India, 09 - 10 October 2026

ABOUT INSPECT – 2026 (HYBRID MODE)

Welcome to the 2026 International Conference on Intelligent Signal Processing and Effective Communication Technologies (INSPECT-2026), to be held in October 2026 at IIT Patna, India. The conference is the premier forum for presenting new advances and research results in varied disciplines and their associated applications in all aspects of Communication Technology, Signal Processing Informatics, and Machine Learning. In addition to the technical sessions, there will be invited sessions, panel sessions, and key note addresses. The aim of the conference is to stimulate interaction and convergence among researchers active in the areas of Communication Technology, Signal Processing Informatics, and Machine Learning. The conference is technically co-sponsored by the IEEE Kolkata Section. **Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.**

The proceedings of INSPECT 2024 are published in IEEE Xplore and are available at: <https://ieeexplore.ieee.org/servlet/opac?punumber=10895986>. The proceedings INSPECT 2025 are available in IEEE Xplore at: <https://ieeexplore.ieee.org/servlet/opac?punumber=11349708>.

ABOUT IIT PATNA

Indian Institute of Technology (IIT) Patna is one of the second-generation IITs, established by an Act of the Indian Parliament on August 06, 2008. The permanent campus of IIT Patna is spread over approximately 501 acres in Bihta, Bihar, which is approximately 30 kms west from Patna city.

The Department of Electrical Engineering (EE) at IIT Patna was established at the inception of the Institute. The Department is actively engaged in teaching, research and development in the areas of Wireless communication, multimedia signal processing, machine learning, power systems, VLSI, IoT devices, autonomous control systems, RF and microwave engineering, and communication systems. The department of EE, IIT Patna is organizing INSPECT-2026.

CONFERENCE TRACKS

INSPECT-2026 welcomes high-quality, original, and previously unpublished submissions in signal processing, computer vision and machine intelligence. Topics of interests for the INSPECT-2026 conference include, but not limited to, the following:

Track-1: Signal & Image Processing

- Array Signal Processing
- Nonlinear Signal Processing
- Adaptive Signal Processing
- Audio Signal Processing
- Speech Processing
- Digital Signal Processing
- Image Enhancement and Restoration

- Image Compression
- Pattern Recognition
- Computer Vision
- Medical Image Processing
- Biomedical Signal Processing
- Remote Sensing
- Multimedia Signal Processing

- Sparse Signal Processing
- Hyperspectral Imaging
- Geospatial Image Processing
- Biometric Signal and Image Processing
- Deep Learning for Signal Processing
- Real-Time Signal and Image Processing
- Acoustic Sensor Network

Track-2: Communication Systems & Networking

- Wireless Communication Systems
- 5G and Beyond
- Satellite Communication Systems
- Network Security
- Cognitive Radio Networks
- Software-Defined Networking (SDN)

- Information Theory
- Cloud Computing
- Network Protocols
- Communication Hardware Design
- Social Networks Analysis
- Multimedia Communication Systems

- Network Virtualization
- Quantum Communication
- Network Performance Optimization
- Green Networking Technologies
- Deep Learning for communication
- Edge Computing

Track-3: IoT, Smart Grid, Robotics & Control Systems

- Internet of Things (IoT)
- Smart Grid Technologies
- Industrial Automation
- Robotics and Automation
- Control Systems Engineering
- Cyber-Physical Systems

- Energy Management Systems
- Sensor Networks
- Autonomous Vehicles
- Human-Robot Interaction
- Distributed Control Systems
- Embedded Systems Design

- Renewable Energy Integration
- Smart Cities Infrastructure
- Home Automation
- Intelligent Transportation Systems
- Swarm Robotics, Wearable Technology
- Intelligent Robotics and Control

Track-4: RF, Microwave & Optical Communication

- Smart Radio Frequency Engineering
- Microwave Engineering
- Antenna Design
- Radar Systems
- Millimeter Wave Communication

- Optical Fiber Communication
- Free-Space Optical Communication
- Microwave Photonics
- RF MEMS
- Optical Switching and Routing

- RF Circuit Design
- Optical Networks
- Microwave Remote Sensing
- Terahertz Communication
- Photonic Integrated Circuits

Track-5: Electronic Systems

- Autonomous System
- Microelectronics
- Electronics System Design
- Low-Power VLSI Design
- ASIC Design
- Neuromorphic Engineering

- VLSI CAD (Computer-Aided Design)
- High-Level Synthesis
- Hardware Acceleration
- VLSI Design for Signal Processing
- Hardware Security
- Reconfigurable Computing

- FPGA Design
- VLSI Testing and Verification
- SoC (System-on-Chip) Design
- Advanced CMOS Technologies
- Clock and Power Distribution Network
- VLSI Architectures for Communication

IMPORTANT DATES

Call for Paper
Submission Deadline
Notification of Acceptance
Early Bird Registration
Camera Ready Submission Deadline
Registration Close
INSPECT-2026

01 August 2026
10 September 2026
Rolling (Before 25 September 2026)
30 September 2026
30 September 2026
02 October 2026
09-10 October 2026

Please Scan for More Details



SUBMISSION GUIDELINES

Submission Guidelines Prospective authors are invited to submit full-length original research papers. In submitting a manuscript to INSPECT-2026, the authors acknowledge that no paper substantially similar in content has been or will be submitted to another journal, conference, or workshop during the review period. In such a case, the paper will be rejected without review. Papers must be electronically submitted without exception before the deadline expires. The paper must be at most 6 pages in length (including all text, figures, and references). However, authors can add up to 2 extra pages with the appropriate fee payment per page. The manuscript must be submitted in pdf format only, and the file size of your manuscript should not exceed 10 MB. INSPECT-2026 follows a single-blind review process. Authors must use the manuscript template as follows: Overleaf, LaTeX, or Word. The manuscript has to be uploaded online at the INSPECT-2026 using the Microsoft CMT paper submission portal.