

33rd IEEE Conference on Signal Processing and Communications Applications

June 25th-28th, 2025

Işık University, Şile, İstanbul

siu2025.isikun.edu.tr

We are pleased to announce the Call for Papers for the 33rd IEEE Conference on Signal Processing and Communications Applications (SIU), a premier venue for researchers and practitioners from academia and industry to share their advancements in the fields of communications, signal processing, and their applications. SIU 2025 will take place from June 25th 2025 to June 28th 2025, at Işık University Şile Campus, İstanbul.

Important Dates

- Paper Submission Deadline: ~~March 9th 2025~~ **March 21st 2025 (Firm)**
- Notification of Acceptance: May 2nd, 2025.

- Camera-Ready Paper Deadline: May 16th, 2025.
- Conference Dates: June 25th, 2025 to June 28th, 2025.

Tracks and Topics of Interest

The conference invites original research papers on, but not limited to, the following topics, organized across five dedicated tracks. Original contributions on any topic in the broad fields of Communication and Signal Processing are also welcome.

Track 1: Communications and Networking

Information Theory and Coding	Millimeter-Wave and Terahertz	Optical Communications and Networking
Wireless Communication and Networks	Physical Layer Security	Security and Privacy in Communications and Networking
Internet of Things (IoT)	Software-Defined Networks, Network Function Virtualization	Molecular and Nano Communications
Cyber-Physical Systems	Unmanned Aerial Vehicles and Non-Terrestrial Networks	Age and Value of Information in Communication Networks
Satellite and Deep Space Communications	Wireless Networks	Energy-Efficient and Green Networking
Energy Harvesting and Low Energy Communications	Communication Theory and Applications	Edge Computing, Edge Intelligence, and Fog Networks
Digital Twins	5G/6G and Beyond Technologies	Network Security and Privacy
Quantum Communications	Vehicular Communications	Resource Allocation
Cooperative Communications and Networking	Integrated Sensing and Communications	Semantic and Goal-Oriented Communication
Holographic Surfaces and MIMO	Wireless Power and Information Transfer	Backscatter and RIS-based Communications

Track 2: Image Processing and Computer Vision

Image and Video Processing	Image and Video Coding/Compression	Remote Sensing and Geospatial Analysis
Object Detection and Pattern Recognition	Image and Video-Based Biometrics	Document Analysis and Understanding
Multichannel and Multi-Camera Processing	3D Vision and Computational Photography	

Track 3: Signal Processing and Applications

Signal Processing Theory	Industrial and Automotive Applications	Signal Processing for Autonomous Systems
Nonlinear Signal Processing	E-Health Applications and Assistive Technologies	Robotics and Automation
Radar Signal Processing	Statistical Signal Processing	Real-Time Signal Processing and Embedded Systems
Signal Processing for Cybersecurity Applications	Audio/Speech Processing	Financial Signal Processing
Human-Computer Interaction and Behavior Analysis	Signal Processing for Smart Cities and Smart Grids	

Track 4: Machine Learning and Artificial Intelligence

Machine Learning Theory	Transfer, Semi-Supervised, and Unsupervised Learning*	Machine Learning, Deep Learning in Signal Processing
Natural Language Processing and Text Mining	Performance Analysis of Machine Learning Techniques	Adversarial Machine Learning and Robust AI
Multimodal Analysis	Machine Learning, Deep Learning for Communication Systems	Unsupervised and Generative Models
Explainable AI and Trustworthy Machine Learning	Deep Learning	Reinforcement Learning

Track 5: Biomedical Signal/Image Processing and Applications

Biomedical Signal Analysis	Telemedicine and Remote Patient Monitoring	Biometric Signal Processing
Bioinformatics and Genomic Signal Processing	Medical Image Analysis and Applications	Applications of Artificial Intelligence for Medical Diagnosis
Biomedical Data Privacy and Security	Wearable Sensors and E-Health	Neuroengineering and Brain Signal Processing

Submission Guidelines

- Paper Format: Submissions should be no more than four pages in length.
- Language: Papers must be written in Turkish. In case one or more of the authors are foreign nationals, the paper can be submitted in English.
- Review Process: All submissions will be double-blind peer-reviewed. Ensure manuscripts are anonymized.
- Publication: Accepted and presented papers will be published in IEEE Xplore Digital Library.

For detailed submission instructions, templates, and guidelines, please refer to the official conference website: siu2025.isikun.edu.tr.

We look forward to receiving your contributions and welcoming you to SIU 2025!

Organizing Committee

Onur Kaya, Işık University (General Chair)
Mutlu Koca, Boğaziçi University (Technical Program Committee Co-Chair)
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