



Call for Papers – IEEE SIU 2026



34rd IEEE Conference on Signal Processing and Communications Applications (SIU 2026)

7-10 July 2026

Piri Reis University, Tuzla, İstanbul

siu2026.pirireis.edu.tr

We are pleased to announce the Call for Papers for the 34rd 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 2026 will take place from July 07th 2026 to July 10th 2026, at Piri Reis University Seaside Campus, İstanbul.

Important Dates

- **Paper Submissions:** 13 March 2026
- **Notification of Paper Acceptance:** 18 May 2026.
- **Camera-Ready Paper Submission:** 1 June 2026.
- **Conference Dates:** 07-10 Temmuz 2026.

Tracks and Topics of Interest

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

Track 1: Communications and Networks

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

Track 2: Image Processing and Computer Vision

Image and Video Processing	Image and Video based Biometrics	3D Imaging and Computational Photography
Image and Video	Multi-Channel and Multi-Camera Processing	Document Analysis and Understanding
Object Detection and Pattern	Remote Sensing and Geospatial Analysis	Vision Foundation Models, Vision-Language Models

Track 3: Signal Processing and Applications

Signal Processing Theory	Signal Processing for Smart Cities and Smart	Industrial and Automotive Applications
Statistical Signal Processing	Signal Processing for Cybersecurity Application	Real-Time Signal Processing and Embedding
Nonlinear Signal Processing	Signal Processing for Autonomous Systems	E-Health Applications and Assistive Technologies
Audio/Speech Processing	Radar Signal Processing	Financial Signal Processing

Track 4: Machine Learning and Artificial Intelligence

Machine Learning Theory	ML/DL for Communication Systems	Transfer, Semi-Supervised and Unsupervised Learning
Deep Learning	ML/DL in Signal Processing	Multimodal Analysis
Unsupervised and Generative AI	Explainable AI and Trustworthy ML	Performance Analysis of ML Techniques
Machine Learning for Healthcare	Adversarial ML and Robust AI	Reinforcement Learning

Track 5: Biomedical Signal/Image Processing

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

Track 6: Natural Language Processing and Text Mining

LLM and Training Strategies	Artificial Intelligence and LLM Agents	Phonology, Morphology, and Word Segmentation
Information Extraction and Retrieval	Linguistic Theories, Cognitive Models	Semantics in Language
Dialogue and Interactive Systems	Translation and Multi-Language Processing	Text Summarization, Question Answering
Speech Processing and Recognition	Sentiment, Style, and Argument Analysis in Texts	

Track 7: Robotics and Automation

Marine, Air, and Land Robots	Swarm Robots	Robot-Object Interaction
Industrial Robots	Control Algorithms	Vision and Perception in Robots
Humanoid and Social Robots	Positioning, Mapping, and Navigation	Human-Robot Interaction
Robots in Education, Healthcare, Civil, Defense, and Agriculture	Robot Architectures, Software, Simulators, and Operating Systems	

Special Sessions

- Computational Social Sciences
- Artificial Intelligence in Finance
- Artificial Intelligence-Based Autonomous, Energy-Efficient, and Resilient Communication Systems in 5G and 6G Networks
- Artificial Intelligence and Dynamic Sensing for Security and Collaboration in Smart Environments
- Optical Communication Systems and Applications
- Explainable, Interpretable & Trustworthy AI for Next-Generation Network Autonomy (EXIT-ANA 2026)
- Signal Processing and Communication Applications in Maritime Navigation

- Autonomy and Perception for Heterogeneous Unmanned Aerial, Land, and Sea Vehicles
- Machine Learning and Signal Processing on Graphs
- Non-Terrestrial Networks in Next Generation Communication Technologies: Integration, Optimization, and Applications
- Locomotion in Robotic and Biological Systems
- Multi-Input Multi-Output (MIMO) Radar Systems
- Turkish Large Language Models: Development, Adaptation, and Applications
- Advanced and Hybrid Signal Processing Approaches for Integrated Sensing and Communication (ISAC): Positioning, Detection, and Tracking

Submission Guidelines

The papers presented at SIU 2026 Conference will be evaluated with a double-blind review policy, and rules for anonymous submission of papers will be applied. The papers to be submitted should be prepared anonymously. Maximum number of pages for a paper is four. All accepted papers will be indexed in IEEE Xplore.

For detailed submission instructions, templates, and guidelines in English, please refer to the official conference website: siu2026.pirireis.edu.tr.

To submit your paper, please visit the Microsoft CMT submission page: <https://cmt3.research.microsoft.com/SIU2026/>

We look forward to your contributions and would be delighted to welcome you to SIU 2026!

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