

7th International Conference on Frontiers in Computing and Systems

Organized By
Škoda Auto Vysoká škola, Prague, Czech Republic, and
COMSYS Educational Society, Kolkata

Call for papers for Special Session : *Next-Generation Resilient IoT Architectures
for Smart Healthcare Ecosystems (RISE-2026)*

Organizers:



Prof. Abhishek Das (Lead)

Professor, Dept. of Computer Sc. & Engineering,
Aliah University, Kolkata



Dr. Suparna Biswas

Associate Professor, CSE Dept. , Maulana Abul Kalam Azad
University of Technology, West Bengal

The rapid evolution of the Internet of Things (IoT) has transitioned healthcare from reactive clinical settings to proactive, continuous monitoring environments. However, as these "Smart Healthcare Ecosystems" scale, they face critical challenges in system resilience, data integrity, and energy-aware computing. This special session, **RISE-2026**, focuses on the intersection of robust computing and healthcare delivery. We aim to explore novel architectures that ensure high availability and low latency for life-critical medical data. The session will highlight advancements in edge-to-cloud orchestration specifically designed for medical telemetry, wearable biosensors, and AI-driven diagnostic tools.

Topics: (not limited to)

- AI in smart healthcare for disease monitoring and prediction.
- QoS aware Edge computing in emergency healthcare scenarios.
- AI driven human activity recognition and fall prediction for diseased elderly for monitoring and rehabilitation.
 - Healthcare ecosystem enabled with IoT, AI, ML and privacy preserving techniques.
 - Energy-efficient MAC protocols for Implantable Medical Devices(IMD).
 - Edge computing for real-time remote patient monitoring.
 - Blockchain-based security for Electronic Health Records (EHR) in IoT.
 - Fault-tolerant communication in Wireless Body Area Networks (WBANs).
 - AI-driven anomaly detection in medical sensor data streams.
 - Integration of 6G/Satellite links for rural telehealth systems.

Guidelines to be followed by Authors:

- Papers to be included in the special sessions should be of good quality and within the scope of the LNNS book series.
- Try to have atleast one foreign co-author in your paper.
- Make sure that papers with pages less than 8 and more than 12 will not be considered.
- Be careful about content, as AI and similarity check will be done, as per Springer's Policy
- Hybrid mode presentation is allowed.

Important Dates:

Submission Deadline: April 01, 2026
Acceptance Notification: May 10, 2026
Registration Due: May 20, 2026
Camera-ready Submission: June 01, 2026
Main Sessions: June 24-26, 2026

Submission procedure:

<https://comsysconf.org/2026/call-for-paper>

