

7th International Conference on Frontiers in Computing and Systems (Hybrid Mode)

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

Call for papers for
Special Session : Artificial Intelligence-Driven and Data Driven Digital Transformation for Sustainable Smart Infrastructure and Urban Systems

Organizers:

			
<p>Dr. Radha Krishna Jana (Lead) Assistant Professor JIS University Kolkata, West Bengal, India radhakrishnajana@gmail.com</p>	<p>Dr. Bidisha Bhabani Assistant Professor JIS University Kolkata, West Bengal, India bidisha035810@gmail.com</p>	<p>Dr. Tanaya Das Assistant Professor JIS University Kolkata, West Bengal, India tanayadas.das23@gmail.com</p>	<p>Dr. Ankan Bhattacharya Associate Professor Hooghly Engineering & Technology College West Bengal, India bhattacharya.ankan1987@gmail.com</p>

Artificial intelligence and machine learning provide powerful mechanisms for extracting actionable insights from heterogeneous urban data sources, including IoT sensors, satellite imagery, mobility data, and administrative records. However, the real impact of AI in smart infrastructure and urban systems depends not only on model accuracy but also on computing system design, encompassing scalable data pipelines, real-time processing architectures, edge–cloud integration, and cyber-physical system coordination. Without robust computing frameworks, AI-driven solutions struggle to meet the demands of latency, reliability interoperability, and energy efficiency required in large-scale urban environments.

This special session is therefore motivated by the need to emphasize AI as a system-level capability rather than a standalone algorithmic component. It seeks contributions that integrate machine learning models with data-centric architectures, distributed computing platforms, and intelligent control mechanisms, enabling sustainable digital transformation of urban infrastructure. The session encourages research that demonstrates how computing systems can support continuous learning, autonomous decision-making, and adaptive optimization in complex urban settings.

Proceedings:

All accepted, registered, and presented papers will be included in the conference proceedings to be published by Springer book series Lecture Notes in Networks and Systems (ISSN: 2367-3370). Indexed by SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH, SCImago.

List of Topics:

- Artificial intelligence and machine learning for smart cities
- Data-centric computing architectures for urban systems
- Big data analytics and urban intelligence platforms
- IoT-enabled infrastructure monitoring and management
- Cyber-physical systems for smart transportation and energy networks
- Digital twins for infrastructure modeling and urban planning
- Edge–cloud computing for real-time urban analytics
- Intelligent decision support systems for urban governance
- Sustainable and energy-efficient computing for smart infrastructure
- Security, privacy, and trust in urban data ecosystems
- AI-enabled resilience and disaster management systems
- Ethical, legal, and policy aspects of AI in urban environments

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>

Submissions for the main conference must be made online through the following the submission link: <https://cmt3.research.microsoft.com/COMSYS2026> . Papers should be of minimum 10 pages (including figures, tables, and complete with author's affiliations) in the camera-ready submission. A paper shorter than 8 pages and longer than 12 pages will not be considered. Manuscripts, to be reviewed should be prepared either in LaTeX or Microsoft Word. Follow the authors instructions in the Information for Authors of Springer Proceedings. Relevant word and Latex templates can be found from <https://www.springer.com/gp/authors-editors/conference-proceedings/conference-proceedings-guidelines>.

NOTE: While submitting the paper in this special session, please specify [Special session title: Artificial Intelligence-Driven and Data Driven Digital Transformation for Sustainable Smart Infrastructure and Urban Systems] at the top (above paper title) of the first page of your paper.