

2025 IEEE INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN ENGINEERING AND COMPUTING (ETECOM)

CALL FOR PAPERS

 **29 – 30 October 2025**

 **American University of Bahrain (AUBH),
Bahrain**

Paper Submission Link: <https://edas.info/N33224> 

• • • • • TECHNICAL TRACKS • • • • •

All accepted and presented papers will be submitted for inclusion in the IEEE Xplore Digital Library and indexed in Scopus.

TRACK 1: ARTIFICIAL INTELLIGENCE (AI), MACHINE LEARNING (ML), AND BUSINESS ANALYTICS

- Deep learning algorithms and architectures.
- Reinforcement learning for autonomous systems.
- AI-driven optimization techniques.
- NLP and Knowledge Systems.
- AI-Driven Text Analysis.
- Data visualization techniques.
- Data Privacy & Protection, Cyber Security, Surveillance and Fraud Detection.
- AI & ML applications in communication systems.
- AI & ML in Science, and Healthcare.
- AI & ML in Business and Economics.
- AI, Society, and Ethics.
- Public policy and regulation of AI technologies.

TRACK 4: INTELLIGENT TRANSPORTATION AND GEOGRAPHIC INFORMATION SYSTEM

- Traffic Optimization.
- Traffic Safety.
- Urban Planning and Smart Infrastructure Development through AI.
- Autonomous Vehicles.
- Intelligent Traffic.
- Spatial Analysis and Modeling.
- Spatiotemporal Data Analysis and Modeling.
- Remote Sensing and GIS Integration.
- Geospatial Analysis for Sustainable Development.
- Geo-visualization.
- Geospatial Big Data and Analytics.

TRACK 2: GREEN & SUSTAINABLE COMPUTING AND SYSTEMS, NETWORKING, COMMUNICATION, AND SENSOR BASED TECHNOLOGIES

- Next Wireless Generation: Technologies, standards, and deployment challenges.
- Cognitive and dynamic radio networks.
- Backscattering and Passive Communications.
- Internet of Things (IoT) communication protocols and architectures.
- Massive MIMO systems.
- Millimeter-wave communication.
- Energy-efficient communication protocols for wireless networks.
- Software-defined networking (SDN) and network function virtualization (NFV).
- Network virtualization and slicing.
- Quality of Service (QoS) provisioning in heterogeneous networks.
- Network security and privacy.
- Renewable energy-powered computing systems.
- Energy-efficient data centers and cloud infrastructure.
- Sustainable computing practices and policies.
- Embedded systems design and development.
- Cyber-Physical Systems and its applications in healthcare, transportation, smart cities, etc.

TRACK 5: SUSTAINABLE ENGINEERING

- Renewable Energy Storage Systems
- Smart solar-tracking systems
- Green Building Design and Technologies.
- Green applications in Engineering
- Integrating AI for Sustainable Construction.
- Sustainable Water Resource Management
- Urban Planning for Sustainable Cities
- Smart Mechanical Systems for Energy Optimization

TRACK 3: IOT, SMART GRID, CLOUD COMPUTING AND EDGE COMPUTING

- Communication for smart grid.
- IoT Communication protocols.
- IoT Sensing, monitoring, networking and routing.
- Security and privacy for IoT.
- Smart cities, and Internet of vehicles.
- IoT in supply chain management and logistics.
- Industrial 4.0 and Industrial IoT.
- Cloud computing models and architectures.
- Edge computing paradigms and applications.
- Fog computing and its role in IoT.
- Security and privacy issues in cloud and edge computing.

TRACK 6: ENGINEERING EDUCATION

- Technology-Enhanced Learning.
- Data Analytics in Education.
- Emerging Technologies in Classroom Management.
- Integration/Adaptation of New Technologies in Education.
- Instructional Design and Implementation for Education.
- Accessible and Inclusive Learning Environments.
- Students' Engagement and Learner Support Strategies.
- Ethics and Responsible AI Use in Education.
- Educational Technologies for Diversity and Inclusion.

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IMPORTANT DATES

Paper Submission

~~15 Jul 2025~~ **15 Aug 2025** 

Acceptance Notification

15 Sep 2025

Early Bird Registration

05 Oct 2025

Camera Ready Paper

15 Oct 2025

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