# ARAB ICT 2023
# CONFERENCE

## DIGITAL TRANSFORMATION FOR SUSTAINABLE INFRASTRUCTURE

**6-7 December 2023**
GULF HOTEL
MANAMA, BAHRAIN

www.arabict.info

## Overview

Under the patronage of H.E. Shaikh Khalid bin Abdulla Al Khalifa, Deputy Prime Minister, Kingdom of Bahrain, the Federation of Arab Engineers and the Bahrain Society of Engineers are pleased to announce the organization of the Arab ICT Conference 2023, which will be held in the Kingdom of Bahrain from 6 to 7 December 2023 with the theme **"Digital Transformation for Sustainable Infrastructure".** The Arab ICT Conference has steadily expanded since its inception in 2010 to become a leading conference in the region. In its 7th edition, the conference will be associated with an exhibition to showcase the latest technologies, technical innovations, new applications, best practices, cutting-edge research, and case studies.

## Conference Tracks

Authors are invited to contribute to the conference by submitting articles that illustrate emerging technologies, research results, projects, surveying works and industrial experiences that describe significant advances in the following tracks:

### TRACK 1: ICT FOR INFRASTRUCTURE MANAGEMENT

- Building Information Modeling (BIM)
- Digital Twin and Smart Industry
- ICT in Disaster Management
- IoT and Sensor Network
- GIS, Spatial Mapping and Remote Monitoring
- Intelligent Transportation Systems
- 3D Printing and Prefabrication
- Smart Risk Management
- Intelligent Energy Management
- Digitalization of the Utility's Infrastructure
- ICT in Waste Management

### TRACK 2: ICT FOR SMART COMMUNITIES

- Smart Government
- Smart Healthcare
- Smart Cities
- Smart Education
- Impacts of ICT on Environmental Sustainability
- Financial Technologies

### TRACK 4: COMMUNICATIONS TECHNOLOGIES

- Next-Generation Networking and Internet
- Mobile and Wireless Networks
- Satellite Communications
- Optical Networks and Systems
- Cognitive Radio and AI-Enabled Networks
- Communications Software and Multimedia
- Communication and Information System Security
- Underwater and subterranean communications
- MEMS devices for wireless sensing and communications
- Drone-assisted wireless communications

### TRACK 3: DIGITAL TRANSFORMATION TECHNOLOGIES

- AI and Machine Learning
- Cloud and Edge Computing
- IoT and Sensor Network
- Computer Vision
- Robotics
- Data Mining
- Speech Processing
- Computational Biology
- Augmented, Virtual and Mixed Reality
- E-Learning
- Emerging Trends in Data Management
- Expert and Knowledge-based Systems
- Knowledge Engineering and Intelligence Systems
- Multimedia Storage Management
- Web Technologies
- Big Data Analytics
- Quantum Computing
- Blockchain and NFTs
- Developing and Deploying the Metaverse
- Unmanned Vehicles
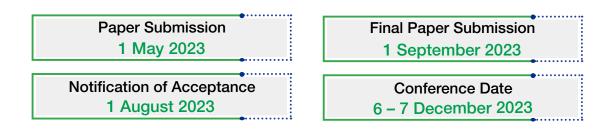- Privacy and Cyber Security

## Instructions For Authors

The 2023 arab ict conference is technically sponsored by IEEE and IET. Prospective authors are kindly invited to submit their contribution in one of the following categories:

### RESEARCH PAPERS

Authors are invited to submit original research works related to the conference tracks. Submitted work should not have been published elsewhere and should not be intended to be published elsewhere during the review period. All papers must be submitted electronically through the EDAS conference management platform according to IEEE conference templates, which can be downloaded from here. All submitted papers will undergo a blind review process by at least three reviewers. Conference proceedings will be submitted for publishing in IEEE Xplore digital library and indexed by SCOPUS. At least one author of an accepted paper is required to register for the conference and present the paper at the conference venue. Non-adherence to this policy will result in the paper being dropped from the Conference Proceeding and will not be submitted to IEEE Xplore. Authors of selected papers presented at the conference will be invited to submit extended versions of their manuscripts for publication in selected international journals.

### Using EDAS Platform

If you have used this system before, you can use the same username and password. If this is your first time using EDAS, you will need to register for an account by clicking "create a new account" button. Upon completion of registration, you will get a notification email from the system and you are ready for submitting your paper. You can upload and re-upload the paper to the system by the submission due date.

| Paper Submission | Final Paper Submission |
|---|---|
| 1 May 2023 | 1 September 2023 |

| Notification of Acceptance | Conference Date |
|---|---|
| 1 August 2023 | 6 – 7 December 2023 |

### TECHNICAL PRESENTATIONS

The conference committee welcomes submissions from individuals and organizations working in the ICT field. These submissions give more focus on practical applications, innovative solutions, case studies and best practices in the ICT field. Submissions in this category can take the form of a presentation, or a demonstration related to the conference tracks. Authors are invited to submit abstracts of no more than 500 words describing the proposed work to be presented using the Online Abstract Submission Form. The abstract must include the title of the paper, the author's name(s), and the affiliation(s) including email addresses. The selection of the submitted contribution will consider the originality, relevance, and likely interest to delegates. All submissions will undergo a double-blind review process.

At least one author of an accepted presentation is required to register for the conference and present their work at the conference venue. Non-adherence to this policy will result in the paper being dropped from the Conference Proceeding.

| Abstract Submission | Notification of Presentation Acceptance |
|---|---|
| 1 March 2023 | 1 August 2023 |

| Notification of Abstract Acceptance | Final Presentation Submission |
|---|---|
| 1 April 2023 | 1 September 2023 |

| Presentation Submission |
|---|
| 1 June 2023 |

For further details regarding the Exhibition, please contact:

**The Conference Secretariat, Arab ICT 2023**
Bahrain Society of Engineers, P O Box 835, Kingdom of Bahrain.
Tel: +973 17810734  Email: conference.officer@bse.bh

**www.arabict.info**

| Conference Registration Fees | |
|---|---|
| Category | Full Registration |
| Delegates | BD 150    US$ 400 |
| Speakers | Complimentary |
| FAE/BSE Members | BD 115   US$ 300 |
| Students* | BD 50   US$ 135 |

Should provide proper authentication. Inclusive of 10% VAT*

**Organizers**

Federation of Arab Engineers | لجنة تقنية الاتصالات والمعلومات ICT | BAHRAIN SOCIETY OF ENGINEERS اتحاد المهندسين العرب

**Technical Sponsors**

IEEE BAHRAIN SECTION | IET The Institution of Engineering and Technology