

INTERNATIONAL CONFERENCE ON FOURTH INDUSTRIAL REVOLUTION

“ Industry 4.0, Transition & Capacity of GCC Countries”

Call for Papers

www.industry4conference.org

19 – 21 February 2019
Gulf International Exhibition Center
Gulf Hotel, Kingdom of Bahrain

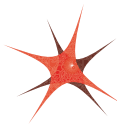


Organized by



جمعية المهندسين البحرينيين
BAHRAIN SOCIETY OF ENGINEERS

Supported by



بوليتكنك البحرين
Bahrain Polytechnic



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



The Institution of
Engineering and Technology
Bahrain Local Network



Advancing Technology
for Humanity
IEEE BAHRAIN SECTION

Chairman's Message



Dr. Haitham Al Qahtani
Conference Chairman

On behalf of the organizing committee, I would like to invite you to participate in the 'International Conference on Fourth Generation Industrial Revolution' under the theme "Industry 4.0, Transfer and Capacity of GCC countries".

Impressive progress has been made in recent years, driven by exponential increases in the computing power. The interfacing of digital technology in industrial operation has improved efficiency and quality of products & services. Involvement of Artificial Intelligence, Internet of Things (IOT), Virtual / Augmented Reality, Additive Manufacturing (3D Printing) and Robotics have significantly influenced industrial efficiency and performance. Fourth Industrial generation will use 'Digital Reality' to change business practice, consumer behavior, operation decision and product precision. It will change the environment of employment requiring different skills and levels of knowledge; and it will redistribute wealth toward innovation and technology from resource and capital possessions.

In this conference, we will not only explore the impact of Fourth Industrial Revolution on value proposition it makes and competitive edge it gives; but also we will investigate the influence of digital revolution on specific related industries that are vital to GCC economy - Oil, Engineering, Metal, Power and Logistic Services. The conference will be gathering all type of enterprises exploring smart operations and innovative applications. For those who provide solutions and innovative ideas, we would like to invite you to exhibit your services.

Hope to see you participating in this conference and to enjoy the network of expertise, clients and service providers.



Conference Objectives

The conference will have two main objectives to outreach. Firstly, it will discuss the impact of transition to Fourth Industrial Revolution on Ecosystem, Infrastructure, Efficiency and Competitiveness of industrial operation in general. We will investigate the macro needs to adapt smart operation in terms of changing connectivity, education and business practices. We will also explore the impact of augmented reality, robotics, IOT and artificial intelligent on value chain support and optimization.

The second objective will investigate operational changes of Industry 4.0 on certain industries and how Oil Industry is emerging into smart operation in terms of monitoring and controlling data. Large seismic data combined with innovative analytic system have improved exploration efficiency. Data set analysis and sensing have improved drilling safety, equipment failures, geological information and accuracy. Augmented reality is helping training and enhancing practical experience. In this conference, we will explore more involvements of innovative technologies that are positively changing exploration, oil production and refining industries.

The conference will discuss how Power Industries can be changed. Power generation will shift gradually from supplier to consumer. It will enhance maintenance management and real time performance. It will optimize asset utilization and integrate lifecycle. Artificial intelligent will provide decision support system and give better predictive analysis; where 3-D printing will emerge as new source of spare parts that manufactures need to explore.

At this conference, we will identify solutions to improve Logistics Industries efficiency (filling returned empty containers, reduce fuel consumption, optimize labor intensive handling). We will also understand the impact of Industry 4.0 on optimizing logistic operations and delivery capabilities exploring real applications of advanced self-driving systems of loading and distribution in addition to increased accuracy & reduced labor intensity. During the conference, we will study types of smart methods of monitoring and operating engineering activities. The conference also examines how Industry 4.0 will improve its resource planning (ERP), estimation, market place and analysis. The conference will explore engineering practices and how to enhance management of design, scheduling, procurement, quality, control, documentation and safety by utilizing industry 4.0. We will share upstream and downstream experiences of applying Industry 4.0 on metal industries and will discuss impacts of automation, robotics and smart sensing on improving production and accuracy. The conference will also discuss on how digital system is enabling workers to communicate, share experience and develop skills. During this event, there will be discussions on how to increase control, safety and security by integrating system smartly. We also will investigate how artificial intelligence and data analysis will improve decisions of outsourcing, operation efficiency and networking.



Organizing Committee



Dr. Haitham Al Qahtani
Chairman



Eng. Saeed Asbool
Member



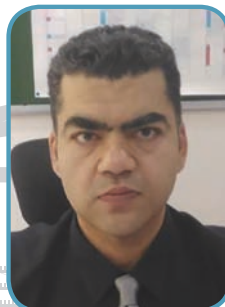
Dr. Wafa Al Mansouri
Member



Dr. Raida Al Alawi
Member



Dr. Ebrahim Mattar
Member



Dr. Saam Najat
Member



Dr. Hashem Hussain
Member



Eng. Jameel Al Alawi
Member

Technical Committee

- 1) **Dr. Haitham Qahtani**
Conference Chairman
Bahrain Society of Engineers
- 2) **Prof. Dr. Bernd J. Hofer**
Chairman & CEO
A9C Capital - Business Consultants
& Technology Advisors WLL
- 3) **Mr. Jappreet Sethi**
CEO
YoStartups
- 4) **Mr. Hesham Nossier**
GM Technical Services
APM Terminals
- 5) **Dr. A.Imam Al-Sammak**
Bahrain Society of Engineers
- 6) **Dr. Saam Najat**
Tutor - Electronics Engineering
Bahrain Polytechnic
- 7) **Dr. Adel A. H. Abdulla**
Chair, IEEE Bahrain Section
- 8) **Dr. Mohab A. Mangoud**
Professor - Electrical Engineering
University of Bahrain
- 9) **Dr. Mohamed AlJerjawi**
PM Electronics Engineering
Bahrain Polytechnic
- 10) **Dr. Hessa Al-Junaid**
IET Bahrain Local Network
- 11) **Dr. Ayman Alaiwi**
IET Bahrain Local Network

Conference Topics

Ecosystem & Infrastructure



- Tech Education, Startup Accelerators, Workshops
- High-speed Internet Connectivity, Simulation Labs

Efficiency



- Integrated Systems, Internet of Things
- Cloud Computing, Big Data

Operations & Performance



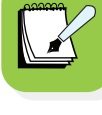
- Predictive Analytics, Cybersecurity
- 3D Printing, Nanotechnology

Competitiveness & Quality



- Augmented/Virtual Reality
- Autonomous Systems

Oil & Gas



- Exploration & Data Analysis
- Production & Process Monitoring

Engineering



- Transportation, Design, Nanotechnology
- ERP, Productivity (Cost , Value , Addition)
- Robotics

Metal Industry



- Process Integration
- Instrumentation & Automation

Power



- Alternate Energy Sources
- Power Distribution Systems

Logistics



- New Delivery Systems
- Warehousing and Predictive Analytics

Why Attend?

Any industry needs to convert its process and operations smartly. Fourth Industrial Revolution needs all types of enterprises (Large, Medium, & Small Industries) digitizing their operations and adapting smarter processes.

This conference will explore process & service industries (Power, Oil, Logistics, Metal, Engineering and others) to manage the shift towards fourth industrial revolution. The attendees will have the opportunity to exchange experience and to develop new knowledge.

Economists, HR and Executives will also benefit from this conference due to the new development of work environment and control of digital operations that have changed the relationship between human to machine.

Private sectors and Organizations should present at this conference due to the role of innovation required by their businesses. This conference will be a good source of ideas and experience to share among others. Large enterprises and Governmental Organizations will find many opportunities by participating and sponsoring this conference. Technology companies should attend this conference to present their services and share its experiences. It will be good opportunities to meet with different type of business segments in one traffic hub exploring needs and required capabilities.

Call for Abstracts

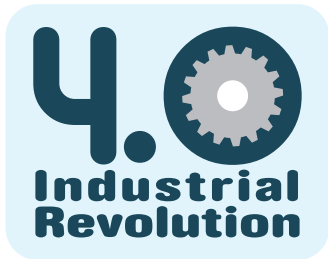
Abstracts are invited on topics outlined and other subjects related to the theme of the conference. The abstracts should clearly mention the topic / subject, the objectives and the important conclusions to be presented and should limit within 400 words.

After approving abstracts, you will be requested to submit full paper/ presentation. It will be reviewed before final approval for submission. Selected papers/presentations will be refereed to be included in the conference proceeding.

Guidelines for the submission of manuscripts for review and the presentation of the final draft will be communicated upon acceptance of the abstract.

Important Dates

Submission of Abstracts	25 July 2018
Abstract Acceptance Notification	25 August 2018
Submission of Paper / Presentation	25 October 2018
Paper / Presentation Acceptance Notification	25 November 2018
Final Paper / Presentation Submission	25 December 2018



International Conference on Fourth Generation Industrial Revolution
19 - 21 February 2019

Sponsorship Form

Category	Amount	Amount
	BHD	USD
<input type="checkbox"/> Diamond Sponsor	BHD 15,000	USD 40,000
<input type="checkbox"/> Platinum Sponsor	BHD 10,000	USD 26,700
<input type="checkbox"/> Gold Sponsor	BHD 5,000	USD 13,350
<input type="checkbox"/> Silver Sponsor	BHD 3,000	USD 8,000

Company Name: _____

Contact Person: _____ Title: _____

Mailing Address: _____

City: _____ Country: _____ Postal Code: _____

Telephone: _____ Fax: _____ Email: _____

Signature: _____ Date: _____

Company Seal _____

Banker's draft/ Cheque payable to Bahrain Society of Engineers

By Bank Transfer -

A/c Name Bahrain Society of Engineers
 IBAN A/C BH47-NBOB-0000-0099-0659-91
 Bank Name National Bank of Bahrain, Manama Main Branch
 Swift Code NBOBBHBM

For more information, please contact

Bahrain Society of Engineers
 Tel : +973 17810734
 Fax : +973 17827475
 Email : george@mohandis.org

Cancellation Policy:

A Sponsor/Exhibitor may cancel their participation in the Conference by giving Conference Organizers notice in writing. If Organizers receives notice of cancellation by 30th August 2018 or before the issue of last conference brochure, the Sponsor/Exhibitor agrees to pay a cancellation charge of 20% of the invoice value as cancellation charges.

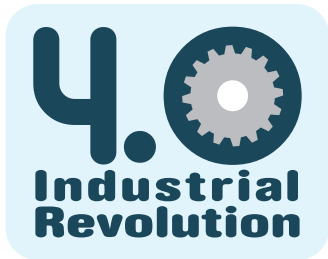
If notice of cancellation is received after the issue of last conference brochure or 31st December 2018 the Sponsor/Exhibitor shall be obligated and agrees to pay a cancellation charge of 50% of the total sponsorship/Exhibition fee. If notice of cancellation is received after 1st January 2019, the entire sponsorship/Exhibition fee is due as cancellation charge. In the event of cancellation, Organizers has the full right to use the space for its own convenience, including selling the space to another exhibitor, without rebate or allowance to the cancelled exhibitor. Bahrain Society of Engineers assume no responsibility for having included the name or description of the cancelled exhibitor in programs, news releases, publicity or other material.



Sponsorship Benefits

Benefits	Diamond BHD 15,000 / USD 40,000	Platinum BHD 10,000 / USD 26,700	Gold BHD 5,000 / USD 13,350	Silver BHD 3,000 USD 8,000
Company Name and Logo in appropriate sizes will be published in all the conference publicity materials	√	√	√	√
Entitled for free exhibition stand space with stand sittings at the exhibition hall	18 sqm	12sqm	6sqm	6sqm
Delegates from the Sponsoring company may attend the conference with full package free of charge	6 delegates	4 delegates	2 delegates	1 delegate
Publicity materials will be included in the conference pack	√	√	√	√
Company name and logo will be published in the conference website with hyperlink to Sponsors website	√	√	√	√
Advertisement shall be provided in the Exhibition Guide free of cost	2 Full Pages	1 Full Page	Half Page	Half Page
Company will be honored with a Plaque by the Conference Patron during the Opening Ceremony	1 st	2 nd	3 rd	4 th
Company Logo with appropriate size will be displayed in the conference hall	√	√	√	√
Company Logo will be displayed on Rollups / Monoliths outside the lobby	Separate	Shared	Shared	Shared
Company Name, logo and profile will be published in the conference proceedings	√	√	√	√





Exhibition Stand Booking Form

International Conference on Fourth Generation Industrial Revolution
19 – 21 February 2019

Company Name: _____

Contact Person: _____ Title: _____

Mailing Address: _____

City: _____ Country: _____ Postal Code: _____

Telephone: _____ Fax: _____ Email: _____

Signature: _____ Date: _____

Company Seal _____

Banker's draft/ Cheque payable to Bahrain Society of Engineers

By Bank Transfer -

A/c Name Bahrain Society of Engineers
IBAN A/C BH47-NBOB-0000-0099-0659-91
Bank Name National Bank of Bahrain, Manama Main Branch
Swift Code NBOBBHBM

For more information, please contact

Bahrain Society of Engineers
Tel : +973 17810734
Fax : +973 17827475
Email : george@mohandis.org

Select the desired stand options

Option A

Shell Scheme Package
Participation fees: BD 1000 or US\$ 2700 (per 6 sq.m)

No. of Stands Required

Shell Scheme

Participation includes :

White wall panels 2.4m height, Carpet Floor, 2 Tables with three chairs, two fluorescent lights, one 240 volt power socket.

Stand Nos.

Select desired stands from the exhibition stand layout

Option B

Stand Space Only (min 6sq.m)

Participation fees: BD 160 or US\$ 430 (per sq.m)

Select desired stands from exhibition stand layout

Stand Nos.

Space Only

Participation does not include any stand construction except one 240 volt power supply. (It is not permitted to use wall partitions of adjacent stands).

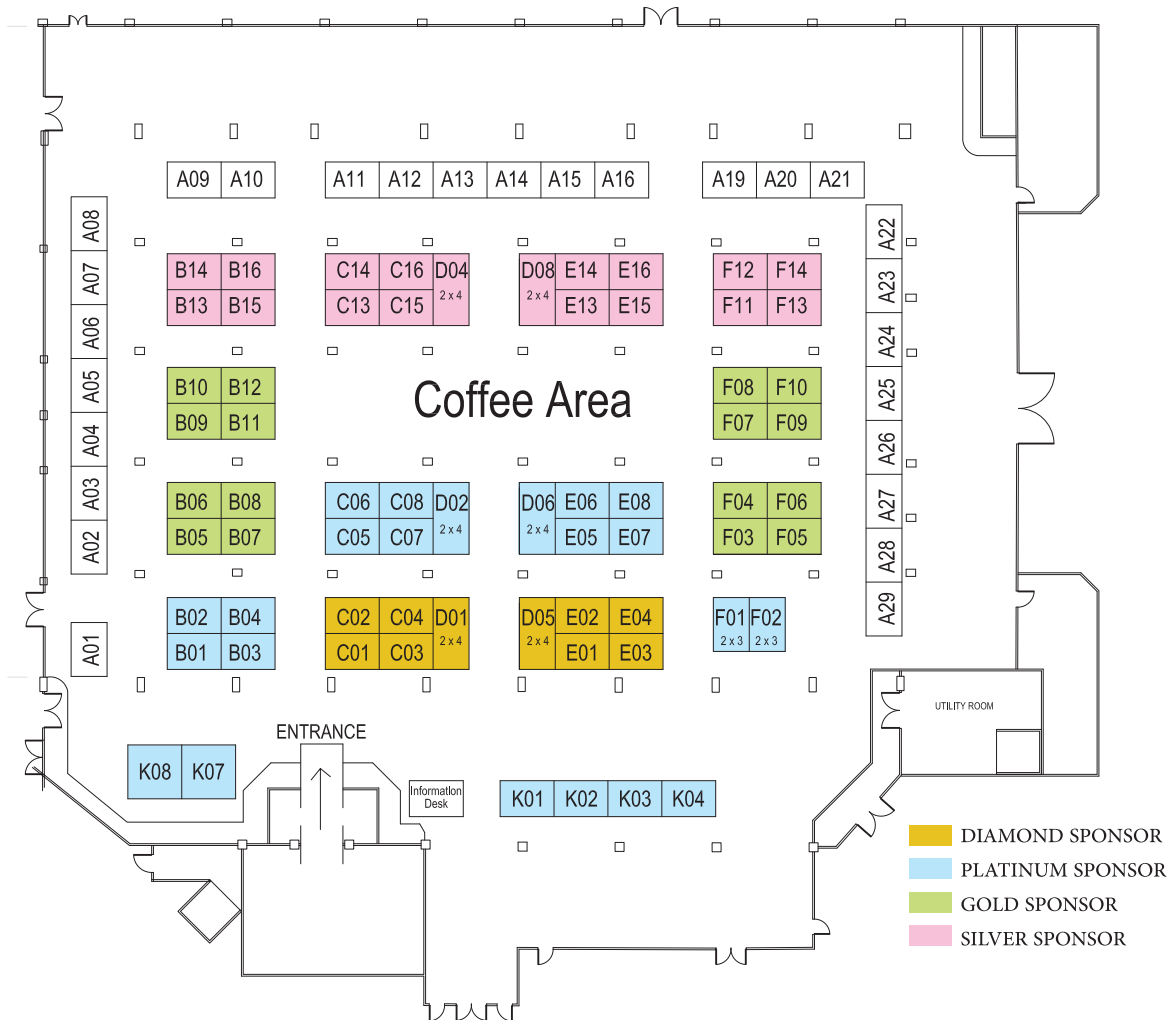
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Exhibition Floor Plan



Exhibition Information

A technical exhibition will be held in conjunction with the technical sessions within the conference venue. The exhibition is intended to provide an opportunity for equipment, materials and service providers to display and demonstrate their products and services related Fourth Generation Industrial Revolution.

Each exhibitor is entitled to the following benefits:

- 1) Exhibitors names will be published in the conference website.
- 2) A brief resume (8 - 10 lines) of each exhibitor will be included in the official exhibition guide, which will be circulated to all invited government officials, VIPs, visitors and participating delegates.
- 3) Wide publicity will be given in the Gulf Region about the exhibition to attract regional and international Industrial Companies and Government officials to visit the exhibition booths during the conference.
- 4) Each exhibitor is entitled to one full conference package (one person allowed to attend all the technical sessions free of charge during the 3 days conference).

Note: All efforts will be made to accommodate your stand location request based on availability

Please forward your booking form to:

The Conference Secretariat

Bahrain Society of Engineers

P O Box 835, Manama, Kingdom of Bahrain.

Tel : +973 17 810734, Fax: +973 17 827475

Email: george@mohandis.org

Conference Registration Fees

Details	Registration Fees	
	BHD	USD
BSE Members	200	535
Delegates	250	650
Students	75	200
Speakers	Complimentary	Complimentary

VENUE

The conference and exhibition will be held at the GICC Gulf Hotel, Kingdom of Bahrain. The Gulf Hotel is a FIVE-STAR facility and a landmark in Manama, just 10 minutes away from the Bahrain International Airport and 5 minutes from the City Centre. The Gulf Hotel offers 366 well-appointed rooms of gracious style, uncompromising efficiency and thoughtful technology. The Bahrain Conference & Exhibition Centre offers exhibition, meeting and pre-function areas with state of the art facilities. The hotel houses many of Bahrain's leading restaurants.

A block booking of rooms at the Gulf Hotel has been made for the participants during the conference period. Following are the special rates. Please specify the conference name to get the special rate.

The above room rates are on a per room per night basis inclusive of breakfast. The above room rates are subject to 10% Service Charge and 10% Government Levy. Airport pickup will be charged extra by the hotel.

About Bahrain

Bahrain, is rich in history ancient civilizations and is situated in the Arabian Gulf. The country offers a fascinating blend of Eastern and Western cultures. The capital Manama is a quite modern cosmopolitan city , which boasts world class restaurants, shopping centres and tourist attractions. The climate is hot and humid in summer and mild in winter. From November to April the weather is very pleasant, with temperatures ranging from 15 to 24 degree centigrade.

Arabic is the official language, but English is widely used by most businesses.



