









International Conference on Innovation, Technology, Enterprise and Entrepreneurship

ICITEE 2019

Kingdom of Bahrain

Conference Programme

- **24 25 November 2019**
- The Grove Hotel & Conference Centre, Amwaj Islands



## Day 0 – 23 November 2019 Registration & Welcome

Floor 13

The Grove Hotel & Conference Centre, Amwaj Islands

6.00pm-8.00pm

Conference Reception and Registration



# Day 1 – 24 November 2019

8.00am-9.00am	Guests Arrival and Registration
9:00am-9:15am	National Anthems & Opening Remarks
	Professor Ghassan Aouad, President, Applied Science University, Kingdom of Bahrain Professor Paul Ivey, Deputy Vice-Chancellor and Chief Business Officer, London South Bank University, United Kingdom 'Conference Chairs'
9:15am-9:30am	Speech by the Patron of the Conference, <b>HE Dr Majid bin Ali Al Nuaimi,</b> Minister of Education and Chairman of the Higher Education Council, Kingdom of Bahrain
	Speech to be delivered by <b>HE Dr Abdul Ghani AlShuwaikh</b> , Secretary General, Higher Education Council, Kingdom of Bahrain
9:30am-9:45am	Welcome Speeches
	Professor Waheeb Al Khaja, Chairman of the Board of Trustees, Applied Science University, Kingdom of Bahrain Professor David Phoenix, Vice-Chancellor, London South Bank University, United Kingdom 'Conference Honorary Chairs'
9:45am-10.00am	The Importance of Research and Innovation in the Arab World
	HE Professor Amr Ezzat Salama, Secretary General, Association of Arab Universities 'Honorary Guest'
10.00am-10.15am	The Role of the Chartered Institute of Building (CIOB) in promoting research and innovation
	Professor Charles Egbu, President, Chartered Institute of Building, United Kingdom
10.15am-10:25am	Tokens of Appreciation
10:25am-10:30am	Group Picture
10:30am-10:45am	Coffee Break



# Day 1 – 24 November 2019 Cont. ■

11:30am-11:45am	Questions and Answers
12:00pm-1:00pm	Lunch Break
Theme Chair	Innovation - Professor Hiam Khoury Education - Professor Yusuf Arayici IT - Professor Yazeed Al Sbou
1:00pm-1:20pm	novation Management: Exploring the synergy between management innovation and technological innovation in the context of global value chains, Mohamad Wafai, Royal Roads University, Victoria, Canada  Online Educational Gaming System for Children with Autism, Moaiad Khder, Samer Shorman, and Hajar AlManea, Applied Science University, Kingdom of Bahrain  An Agile Method to Promote Self-Organize Software Development Teams, Mohamae Youssif, Applied Science University, Kingdom of Bahrain Mnacha, Albacete, Spain
1:20pm-1:40pm	Modern Paints and Modern Art: Synthetic Paint Media and their Impact on Art of the 20th Century, Mohamed Soltan, Applied Science University, Kingdom of Bahrain  Using Technology in Legal Education: Urgency, Benefits, Risks, and Challenges, Abdulellah Nawayseh, University of Sharjah, United Arab Emirates  Scientific Research Online Manag System Proposed System for Applied Science University - Bahrain (Case Study), Mo Khder and Samah Fujo, Applied Science University, Kingdom of Bahrain
1:40pm-2:00 pm	Creativity, Design, Management, Innovation, Enterprise and Entrepreneurship: A Conversation Starter, Kathryn Best, American University of Sharjah, United Arab Emirates  Soft Skills that Improve Distributed Teams and E-learning Efficiency: A Theoretical Proposal, Mohammed Youssif, Applied Science University, Kingdom of Bahrain and Sebastián Romero-López, Consejería de Educación JCCM, Albacete, Spain



# Day 1 – 24 November 2019 Cont.

Theme Chair	Innovation Professor Hiam Khoury	Education Professor Yusuf Arayici	IT Professor Yazeed Al Sbou
2:20pm-2:40pm	The Role of Managerial Innovation in Improving Human Resource Performance at Bahrain Sport Federations, Bedoor Alhajeri and Adel Alzyoud, Applied Science University, Kingdom of Bahrain	Innovation in the Education of Architectural Schools to Improve Awareness of Architecture Conservation, Nihad Almughany, Applied Science University, Kingdom of Bahrain	Empirical Study in Image Denoising Using Total Variation Based On Color Space, Samer Shorman, Applied Science University, Kingdom of Bahrain
2:40pm-3:00pm	Innovative Field Applications of Fiber Reinforced Polymer Composite Reinforcing Bars in Civil Engineering Infrastructures, Hamdy Mohamed, Applied Science University, Kingdom of Bahrain	Using Problem-based Learning in Innovation Management: The Case of Social Innovation at Arabian Gulf University, Odeh Al Jayyousi and Rustom Mamlook, Arabian Gulf University, Kingdom of Bahrain	Towards Arabic Common Criminal Policy on Combating IT Offences, Ahmad Abu Olaim, and Husein Bani Issa, Applied Science University, Kingdom of Bahrain
3:00pm-3:20pm			A Method of Word Spotting for Machine-Printed Arabic Text Documents, Ayman Al Dmoor, Applied Science University, Kingdom of Bahrain
3:20pm-3:40pm			Real-time Website Security, Mohammad Al Hamami, Applied Science University, Kingdom of Bahrain, Omar Nofal and Alaa Al Hamami, Princess Sumaya University for Technology, Jordan



## Day 1 – 24 November 2019 Cont.

Theme Chair	Entrepreneurship - Dr Faiza Zitouni	Sustainability - Professor Hilal Albayatti	Financial Innovation - Dr Ramzi Nekhili	-
4:00pm-4:20pm	The Relationship between Entrepreneurial Leadership and Job Satisfaction: A study of Small and Medium Size Manufacturing Enterprises in Kingdom of Bahrain, Fatema Albufelasa and Ahmed Al Muhamadi, Applied Science University, Kingdom of Bahrain	Smart and Green Infrastructure for Future Cities, Yamuna Kaluarachchi, London South Bank University, United Kingdom	Culture, Bank Supervision, and Investor Protection: Evidence from Financial Crisis, Ashraf Khallaf, and Feras Salama, American University of Sharjah, United Arab Emirates	
4:20pm-4:40pm	Entrepreneurship as a Pillar of Economic Diversification*: Can a Growing Support for Tech Startups and a Flourishing Entrepreneurial Ecosystem Make Bahrain a New Regional Hub?, Hatem Dammak, Applied Science University, Kingdom of Bahrain	Supporting the Growth and Development of SMEs in Kingdom of Bahrain, Ragab Ismail and Adel Al Samman, Applied Science University, Kingdom of Bahrain	Assessment of predominant barriers affecting the progression of transport infrastructure investment: A Case of Johannesburg Metropolitan Municipality, Khotos Dithebe, Clinton Aigbavboa, Wellington Thwala and Kgaygelo Chiloane, University of Johannesburg, South Africa	
4:40pm-5:00pm	The Relationship between Creativity and Entrepre- neurial Intention among Young People in Bahrain and Indonesia: Literature Review, Adel Alzyoud and Ahmed Arbab, Applied Science University, Kingdom of Bahrain and Aprihatiningrum Hidayati, PPM School of Management, Jakarta, Indonesia	Smart City Business Models from a Waste Management perspective: A Systematic Literature Review, Nisha Shetty, Suresh Renukappa, Subashini Suresh and Khaled Algahtani, University of Wolverhampton, United Kingdom	Islamic Finance for SMEs: Past, Present and Future Direction, Hafnida Hasan, Laad Sartwai and Nizar Naim, Applied Science University, Kingdom of Bahrain and Nora Abdul Rahman, Universiti Utara Malaysia, Malaysia	
5:00pm-5:20pm	The Role of Higher Education Institutions in Promoting Entrepreneurship in the Kingdom of Bahrain, Hatem Dammak, Applied Science University, Kingdom of Bahrain		The Prominence of Publicly and Privately Funding Transport Infrastructure Projects in the Gauteng Province, South Africa: Appraisal of Financial Mechanisms, Khotso Dithebe, Clinton Aigbavboa, Wellington Thwala and Kgaugelo, University of Johannesburg, South Africa	

8:30pm-10:30pm

Conference Gala Dinner
Gala Dinner Speaker: Professor Charles Egbu, President of CIOB, introduced by Professor Ghassan Aouad



# Day 2 – 25 November 2019

9:00am- 9:30am	Keynote Address: Entrepreneurship at Lond	Ion South Rank University Professor Paul I	vey, Deputy Vice-Chancellor and Chief Business
9.00aiii- 9.30aiii	United Kingdom (chaired by <b>Professor Ghas</b>		South Bank University, United Kingdom
Theme Chair	BIM and Innovation in Construction  Dr Islam Abohela	Sustainability Professor Hilal Albayatti	Project and Knowledge Managemen <i>t</i> Professor Khaled Gharaibeh
9:40am-10:00am	Implementing Building Information Modeling in Kuwait, Asmaa Alsaleh, Empire Digital Construction & Consultation, Kuwait and Mustafa Alshawi, Unisearch Ltd, United Kingdom	A Review of Occupant's Energy Behavior Data Collection Methods and Techniques, Rima Alaaeddine, Song Wu and Elham Del Zendeh, University of Huddersfield, United Kingdom	Achieving Success in Construction Projects: Is it Influenced by Project Management Techniques, Assem Al Hajj, Khawarizmi International College, United Arab Emirates and Mario Zraunig, Senio Project Manager, CH2M, United Arab Emirates
10:00am-10:20am	Automated Health and Safety Documentation in Construction Using Image Processing, Rula Sharqi, Ammar Kaka and Yasmen Nilson, Heriot Watt University, United Arab Emirates	Sustainability of the UK Construction Industry Workforce: A Critical Review, Robert Wharton, Suresh Renukappa and Hani Alamil, University of Wolverhampton, United Kingdom	The Impact of Knowledge Management or Employees' Performance in Bahrain Petroleum Company (BAPCO), Radwan Kharabsheh and Adnan Alomari, Applied Science University, Kingdom of Bahrain
0:20am-10:40am	Smart Modern Construction Businesses: The Transforming Business Models in Industry 4.0, Priyadarshini Das, Srinath Perera, Sepani Senaratne, and Robert Osei-Kyei, Western Sydney University, Australia	The Impact of Training and Staff Development on the Sustainability of SMEs and New Business Ventures: A Review of the Literature and Research Methods to Explore the Link, Mohammed Abu Keir and Yasser Abuseneh, Applied Science University, Kingdom of Bahrain	The Power of Coaching: Impact of Coaching Programs on Employee Performance in Bahraini Companies, Adel Al Samman and Fatima Ismail, Applied Science University, Kingdom of Bahrain
10:40am-11:00am	Agile BIM Framework for a New Management Approach, Noureddin Omar and Taha Elhag, Heriot-Watt University, Dubai Campus, United Arab Emirates	The UK Water Industry Issues and Challenges, Andrew Kamunda, Suresh Renukappa, Subashini Suresh and Saeed Al Nabt, University of Wolverhampton, United Kingdom	



### **Day 2 – 25 November 2019** *Cont.*

Sustainability Project and Knowledge Management BIM and Innovation in Construction Chair Professor Hilal Albayatti Professor Khaled Gharaibeh Dr Islam Abohela 11:00am-11:20am Enabling a Single Source of Truth Through BIM Application of Construction Waste Minimisation Approaches at the Design Stage: A Systematic and Blockchain Integration, Amer Hijazi, Review, Mahmoud Alhawamdeh and Angela Lee, Srinath Perera, Ali Alashwal and Rodrigo University of Salford, United Kingdom Calheiros, Western Sydney University, Australia 11:20am-11:40am Development of BIM Implementation Framework for Digital Construction in Turkey, Mehmet Sakin and Yusuf Arayici, School of Engineering Hasan Kalyoncu University, Turkey Lunch Break 12:00pm-1:00pm

Sustainability Theme BIM and Innovation in Construction Project and Knowledge Management Chair Professor Hilal Albayatti Professor Khaled Gharaibeh Dr Islam Abohela 1:00pm-1:20pm The Impact of Organisation Culture on Effective Challenges of Expanded Public Works Assessment method on united nation sustainable Exploitation of Building Information Modelling, development goals, applied for a sustainable city, with a focus on Greater Khartoum services, Hind Programme in the Provision of Construction Big Data Analytics and Internet of Things (BBI) Skilled Workers in South Africa, Douglas for Competitive Advantage in Construction Aghimien, Clinton Aigbavboa, Ayodeji Oke, Khogali, Dar Al Uloom University, Kingdom of Saudi Organisations, Upeksha Madanayake, Mustafa Çidik Wellington Thwala and Zanele Raphiri, University and Zulfikar Adamu, London South Bank University, of Johannesburg, South Africa London, United Kingdom and Charles Egbu, Charles, University of East London (UEL), Docklands Campus, London, United Kingdom



# Day 2 – 25 November 2019 Cont.

Theme Chair	BIM and Innovation in Construction  Dr Islam Abohela	Sustainability Professor Hilal Albayatti	Project and Knowledge Management Professor Khaled Gharaibeh
1:20pm-1:40pm	and Health Management, Theo Haupt, University of Technology Durban, South Africa, Mariam Akinlolu and Mohlomi Raliile, University of KwaZulu-Natal	Management Approaches and Challenges Construction Industry within the Kingdom nhrain, Mahmoud Mawed and Jaswin George, win, Heriot-Watt University Dubai Campus, ted Arab Emirates	An Evaluation of Equality and Diversity Issues within the UK Civil Engineering Industry, Asiha Khan, Kie. Utilities & Rail, Kier Construction, United Kingdom an Suresh Renukappa, Subashini Suresh, University Wolverhampton, United Kingdom and Abdula Al Falih, Qassim University, Kingdom of Saudi Arab
1:40pm-2:00pm	Urban Futures, Sara Biscaya, University of Salford, United Kingdom  Proble Khale	ial Intelligence Solutions to Environmental ems-Possible Applications in Bahrain, ed Gharaibeh, Applied Science University, gdom of Bahrain	A Choosing by Advantages Approach for Selecting and Identifying Off-Site Construction Components Hayyan Zaheraldeen, Hiam Khoury and Farot Hamzeh, American University of Beirut, Beir Lebanon
2:00pm-2:20pm	Organisations to Achieve Competitive Advantage, Douglas Aghimien, University of Johannesburg, South Africa  Initiat. Sures Al-Ja	ns for Implementing Smart Cities ives: An empirical study, Wala Abdalla, sh Renukappa, Subashini Suresh and Razan anabi, University of Wolverhampton, United gdom	Industry Preparedness for Off-Site Construction, Rula Sharqi, Heriot-Watt University Dubai Campus United Arab Emirates and Ghassan Aouad, Applie Science University, Kingdom of Bahrain
2:20pm-2:40pm	construction Industry, Haddy Jallow, Costain Group, United Kingdom, Suresh Renukappa, Subashini Suresh, University of Wolverhampton, United Kingdom and Ahmed Alneyad, Abu Dhabi Police GHQ,	posed Program to audit the Sustainable opment Goals in the Kingdom of Bahrain, ar Al Sammarraee and Nadya Alshareeda, lied Science University, Kingdom of Bahrain and eel Anber and Entsar Kadum, Federal Board of upreme Audit, Iraq	Impact of Stakeholder Management Tools and Techniques on Construction Project Success Stephanie White, Sitzler, Adelaide, South Australia Australia and Abbas Elmualim and Salem Abdali University of Sharjah, UAE
2:40pm-3:00pm	BIM for Facilities Management on a Blockchain platform, Mohamed Salama and Omar Salama, Heriot Watt University, Edinburgh, United Kingdom		A Study on the Effect of R&D on Bahrain Economy to Achieve its 2030 Vision, Ragab Ismail and Nympha Rita, Nympha, Applied Science University Kingdom of Bahrain
3:00pm-3:30pm	Tea Break		
3:30pm-3:45pm	Best Papers and Attendance	e Awards	
3:45pm-4:00pm	Conference Concluding Ren	narks	



## Day 3 – 26 November 2019 Social Day

	Time		Place	Duration	
	9:00am-9:30am		Departure from the hotel		
	9:30am-10:30am		Alfateh Grand Mosque	1 hour	1
	10:30am-12:30pm		Bahrain National Museum	2 hours including short cruise tour	
	12:30pm-3:30pm		Bab Al-Bahrain Souk	3 hours including lunch / Traditional Bahraini Food	1
V	3:30pm-4:30pm		Arad Fort	1 hour	
	4:30pm-5:00pm	7	Arrival to the hotel		/

#### **Bahrain National Musuem:**

One of the first museums in the Gulf, the Bahrain National Museum opened in 1988. The site itself, on the edge of the sea, is a tremendous attraction. In addition to the rich collection that covers 6000 years of Bahrain's history.









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# Day 3 – 26 November 2019 Social Day Cont.

#### Bab Al-Bahrain (Souq)

The souq located at the entrance to the Manama Souq in Bahrain's capital. Built in 1949, it has a vibrant collection of shops offering a wide range of goods from traditional textiles, spices perfumes, handcrafts and souvenirs.





## **Al-Fateh Grand Mosque**

The Al-Fateh Mosque (also known as Al-Fateh Islamic Center & Al Fateh Grand Mosque) is one of the largest mosques in the world, encompassing 6,500 square meters and having the capacity to accommodate over 7,000 worshippers at a time. Besides being a place of worship, the mosque is one of the premier tourist attractions in Bahrain.









#### **Arad Fort:**

Arad Fort is a 15th-century fort in Bahrain. Formerly guarding a separate island of its own, the fort and its surroundings have since been joined to Muharraq Island. Arad Fort was built in the typical style of Islamic forts during the 15th century before the Portuguese invasion of Bahrain in AD 1622.

