



29 JANUARY – 1 FEBRUARY 2018

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Dubai, UAE

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Monday 29 January

BIOMEDICAL ENGINEERING

Theme:

Enhancing clinical outcomes
through biomedical engineering
and technology

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BIOMEDICAL ENGINEERING

Monday 29 January

Dear healthcare professional,

As the conference chairs for the Biomedical Engineering conference, taking place on Monday 29th January at the Arab Health Congress 2018, we are delighted to bring you this carefully designed programme that will address the challenges and opportunities facing those in the biomedical engineering field.

We are pleased to welcome our **keynote speakers** all the way from Italy - **Dr Paolo Dario**, Professor of Biomedical Engineering, Director of the BioRobotics Institute, **Scuola Superiore Sant'Anna (SSSA)** and all the way from Germany we have **Dr Michael Friebe**, Professor, Faculty of Electrical Engineering, Institute of Medical Engineering, **Otto-von-Guericke-Universität, Magdeburg**.

We look forward to seeing you in January!

Yours sincerely,

Dr Hasan Al-Nashash and **Dr Tim McGloughlin**

CONFERENCE CO-CHAIRS:



DR HASAN AL-NASHASH

Director of the Biomedical Engineering Graduate Program, American University of Sharjah, Sharjah, UAE



DR TIM MCGLOUGHLIN

Professor and Chair, Biomedical Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE





BENEFITS OF ATTENDING:

- Identify strategies that can improve a biomedical leader's management skills
- Appraise the potential for healthcare informatics to improve the quality and safety of patient care
- Describe the latest in state-of-the-art medical devices and imaging technologies in order to improve the efficacy of their medical institutions and laboratories
- Review the latest guidelines for medical device regulation and assessment to ensure appropriate conduct with different medical devices
- Explore the role of biomedical systems management that will drive the efficiency of institutions that utilise biomedical engineering facilities
- Understand the roles between biomedical engineers and clinicians in the use of medical imaging devices to improve patient experience

KEY TOPICS:

- ▶ Leadership in Biomedical Engineering
- ▶ Biomedical Systems Management
- ▶ Healthcare Informatics
- ▶ Regulation & Assessment
- ▶ Medical Devices & Imaging

WHO SHOULD ATTEND:

- ▶ Biomedical Engineers
- ▶ Heads of Biomedical Engineering
- ▶ Clinical Engineers
- ▶ Medical Equipment Planners



- 08:50 Opening Remarks**
Dr Hasan Al-Nashash, Director of the Biomedical Engineering Graduate Program, **American University of Sharjah, Sharjah, UAE**
Dr Tim Mcgloughlin, Professor and Chair, Biomedical Engineering, **Khalifa University of Science and Technology, Abu Dhabi, UAE**

- 09:00 Keynote address: Application of medical robotics for improved clinical outcomes**
Dr Paolo Dario, Professor of Biomedical Engineering, Director of the BioRobotics Institute, **Scuola Superiore Sant'Anna (SSSA), Pisa, Italy**

- 09:45 Keynote address: Reverse Innovation and Exponential Technologies - MedTec entrepreneurial opportunities for the 2025+ healthcare challenges**
Dr Michael Friebe, Professor, Faculty of Electrical Engineering, Institute of Medical Engineering, **Otto-von-Guericke-Universität, Magdeburg, Germany**

SESSION 1: LEADERSHIP IN BIOMEDICAL ENGINEERING

Moderator: Dr Hasan Al-Nashash, Director of the Biomedical Engineering Graduate Program, **American University of Sharjah, Sharjah, UAE**

- 10:15 Panel: Leadership in biomedical engineering**
- **Mr Amer Omar Salha**, Director of Medical Equipment and Planning, **American Hospital, Dubai, UAE**
 - **Mr Riad M Mahfouz**, Managing Consultant, **Vital Quadro Consultancy, Dubai, UAE**
 - **Mr Malek El Hussein**, Chief Executive Officer, **Byrne Medical Equipment Rental LLC, Dubai, UAE**
 - **Dr Paolo Dario**, Professor of Biomedical Engineering, Director of the BioRobotics Institute, **Scuola Superiore Sant'Anna (SSSA), Pisa, Italy**

- 11:00 Coffee Break**

SESSION 2: BIOMEDICAL SYSTEMS MANAGEMENT

Moderator: Dr Hasan Al-Nashash, Director of the Biomedical Engineering Graduate Program, **American University of Sharjah, Sharjah, UAE**

- 11:30 Health technology assessment**
Mr Sundarama Ramnath, Principal Consultant, **ECRI Institute-Integra FZC, Dubai, UAE**
- 12:00 Healthcare and systems engineering partnership: Building a better delivery system**
Dr Abdulrahim Shamayleh, Assistant Professor, Department of Industrial Engineering, **American University of Sharjah, Sharjah, UAE**

SESSION 3: HEALTHCARE INFORMATICS

Moderator: Dr Hasan Al-Nashash, Director of the Biomedical Engineering Graduate Program, **American University of Sharjah, Sharjah, UAE**

- 12:30 Medical informatics and healthcare security**
Professor Ahmed Albarrak, Professor and Chairman, Medical Informatics, College of Medicine, Chairman, Health Informatics Research Chair, Former Dean, Health Sciences College, Vice Rector for Quality, Planning, and Development, **King Saud University, Saudi Electronic University, Riyadh, Saudi Arabia**

- 13:00 Biomedical informatics careers: challenges and opportunities**
Dr Osama El Hassan, Head of e-Health, **Dubai Health Authority, Dubai, UAE**

- 13:30 Lunch**

- 15:00 Advancing clinical informatics**
Dr Ali Kareem Obaidli, Group Chief Academic Affairs Officer, **SEHA, Abu Dhabi, UAE**

SESSION 4: REGULATION & ASSESSMENT

Moderator: Dr Tim McGloughlin, Chair, Biomedical Engineering, **Khalifa University, Dubai, UAE**

- 15:30 Registration of medical devices**
- **Dr Nazeeh Alothmany**, Vice President Executive Director Medical Devices, Assistant Professor of Electrical/Biomedical Engineering, College of Engineering, **SFDA, King Abdul Aziz University, Jeddah, Saudi Arabia**
 - **Mr Riad M Mahfouz**, Managing Consultant, **Vital Quadro Consultancy, Dubai, UAE**
 - **Dr Michael Friebe**, Professor, Faculty of Electrical Engineering, Institute of Medical Engineering, **Otto-von-Guericke-Universität, Magdeburg, Germany**

SESSION 5: MEDICAL DEVICES & IMAGING

Moderator: Dr Tim McGloughlin, Chair, Biomedical Engineering, **Khalifa University, Dubai, UAE**

- 16:15 Coffee Break**
- 16:45 Getting closer to reality: Spinal cord imaging from a clinician's perspective**
Dr Florian Roser, M.D, Chief, Department of Neurosurgery, Neurological Institute, **Cleveland Clinic, Abu Dhabi, UAE**
- 17:00 Novel technology for fetal monitoring**
Dr Ahsan Habib Khandoker, Associate Professor, Biomedical Engineering, **Khalifa University, Abu Dhabi, UAE**
- 17:15 Localizing sources of cortical activity using EEG and Imaging with application to Epilepsy**
Dr Hasan Mir, Associate Professor, Electrical Engineering, **American University of Sharjah, Sharjah, UAE**
- 17:30 Medical Technology - can the UAE repeat the Irish story?**
Dr Tim Mcgloughlin, Professor and Chair, Biomedical Engineering, **Khalifa University of Science and Technology, Abu Dhabi, UAE**
- 17:45 End of conference**

CONFERENCE CO-CHAIRS:

- **Dr Hasan Al-Nashash**, Professor and Director, Biomedical Engineering, **American University of Sharjah, Sharjah, UAE**
- **Dr Tim Mcgloughlin**, Professor and Chair, Biomedical Engineering, **Khalifa University of Science and Technology, Abu Dhabi, UAE**

SPEAKER FACULTY:

- **Dr Abdulrahim Shamayleh**, Department of Industrial Engineering, **American University of Sharjah, Sharjah, UAE**
- **Prof Ahmed Albarrak**, Professor and Chairman, Medical Informatics, College of Medicine, Chairman, Health Informatics Research Chair, Former Dean, Health Sciences College, Vice Rector for Quality, Planning, and Development, **King Saud University, Saudi Electronic University, Riyadh, Saudi Arabia**
- **Dr Ahsan Habib Khandoker**, Associate Professor, Biomedical Engineering, **Khalifa University, Abu Dhabi, UAE**
- **Dr Ali Kareen Obaidli**, Group Chief Academic Affairs Officer, **SEHA, Abu Dhabi, UAE**
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- **Dr Florian Roser**, M.D, Chief, Department of Neurosurgery, Neurological Institute, **Cleveland Clinic, Abu Dhabi, UAE**
- **Dr Hasan Mir**, Associate Professor, Electrical Engineering, **American University of Sharjah, Sharjah, UAE**
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- **Dr Osama El Hassan**, Head of e-Health, **Dubai Health Authority, Dubai, UAE**
- **Dr Paolo Dario**, Professor of Biomedical Engineering, Director of the BioRobotics Institute, **Scuola Superiore Sant'Anna (SSSAI), Pisa, Italy**
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- **Dr Tim Mcgloughlin**, Professor and Chair, Biomedical Engineering, **Khalifa University of Science and Technology, Abu Dhabi, UAE**



CONFERENCES PRICES

Conferences	Book and pay before 7 December 2017		Book and pay before 24 January 2018		On-site	
	AED	USD	AED	USD	AED	USD
Biomedical Engineering 1 Day	FREE TO ATTEND					
Connected Care 1 Day	800	218	1000	272	1200	327
Connected Care 2 Days	1300	354	1500	408	1700	463
Connected Care 3 Days	2100	572	2300	626	2500	680
Family Medicine 1 Day	1050	286	1250	340	1550	422
Family Medicine 2 Days	1850	504	2050	558	2350	640
Family Medicine 3 Days	2450	667	2650	721	2950	803
Paediatrics Conference 1 Day	1550	422	1750	476	2150	585
Paediatrics Conference 2 Days	2550	694	2750	749	3150	857
Paediatrics Conference 3 Days	3250	885	3450	939	3750	1,021
Paediatrics Conference 4 Days	3650	993	3850	1,048	4250	1,157
Orthopaedics Conference 1 Day	1550	422	1750	476	2150	585
Orthopaedics Conference 2 Days	2550	694	2750	749	3150	857
Orthopaedics Conference 3 Days	3250	885	3450	939	3750	1,021
Orthopaedics Conference 4 Days	3650	993	3850	1,048	4250	1,157
Surgery Conference 1 Day	1550	422	1750	476	2150	585
Surgery Conference 2 Days	2550	694	2750	749	3150	857
Surgery Conference 3 Days	3250	885	3450	939	3750	1,021
Surgery Conference 4 Days	3650	993	3850	1,048	4250	1,157
Public Health Forum 1 Day	1550	422	1750	476	2150	585
Public Health Forum 2 Days	2550	694	2750	749	3150	857
Public Health Forum 3 Days	3250	885	3450	939	3750	1,021
Public Health Forum 4 Days	3650	993	3850	1,048	4250	1,157
Imaging and Diagnostics Conference 1 Day	600	163	700	191	1050	286
Imaging and Diagnostics Conference 2 Days	800	218	900	245	1200	327
Imaging and Diagnostics Conference 3 Days	1000	272	1100	299	1450	395
Imaging and Diagnostics Conference 4 Days	1250	340	1350	367	1650	449
Quality Management Conference 1 Day	1600	435	1800	490	2200	599
Quality Management Conference 2 Days	2600	708	2800	762	3200	871
3D Medical Printing Conference 1 Day	800	218	1000	272	1300	354
3D Medical Printing Conference 2 Days	1300	354	1500	408	1800	490
Trauma Conference 1 Day	1600	435	1800	490	2200	599
Trauma Conference 2 Days	2600	708	2800	762	3200	871
Obesity Conference 1 Day	1600	435	1800	490	2200	599
Obesity Conference 2 Days	2600	708	2800	762	3200	871
Gastroenterology Conference 1 Day	1600	435	1800	490	2200	599
Gastroenterology Conference 2 Days	2600	708	2800	762	3200	871
Anaesthesia Conference 1 Day	1600	435	1800	490	2200	599
Anaesthesia Conference 2 Days	2600	708	2800	762	3200	871
Respiratory Conference 1 Day	1600	435	1800	490	2200	599
Respiratory Conference 2 Days	2600	708	2800	762	3200	871
Emergency Medicine Conference 1 Day	1600	435	1800	490	2200	599
Emergency Medicine Conference 2 Days	2600	708	2800	762	3200	871
Hypertension Conference 1 Day	1050	286	1250	340	1550	422
Hypertension Conference 2 Days	1850	504	2050	558	2350	640
Pharmacotherapy 1 Day	1050	286	1250	340	1550	422
Pharmacotherapy 2 Days	1850	504	2050	558	2350	640
Dental 1 Day	1050	286	1250	340	1550	422

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