



16th Middle Eastern Simulation & Modelling Conference: The Challenges COVID-19 **MESM'20**

Dec. 16–17, 2020, Amman, Jordan

Organized by:

American University in the Emirates (UAE-Dubai)
Philadelphia University (Jordan),

Sponsored by:

EUROSIS

IEEE Signal Processing Society, UK & Ireland Chapter

Preface

The MESM'2020 is version 16th of the Eurosis – MESM conference after the successful start of the first MESM'99 and the third MESM'200 conferences that held in Jordan. Due to COVID-19 the MESM20 will be held virtually in Amman-Philadelphia University in the period between 16 and 17 Dec. 2020 and SPONSERED by SPC-IEEE UK and Ireland. The American University in the Emirates and Philadelphian University in Amman-Jordan are organizing the 16th version of the MESM20. MESM 20 attracts researchers, scientists, Engineers, and technologist, knowledge managements from universities, government agencies and industry from all around the world. All submitted papers will be subjected to double blind peer review and critical evaluation by conference committee.

We would like to express our deep gratitude to all members of the program committee for their substantial reviews. Special thanks are due to all members of the organizing committees for their determination to make this event a promising success.

Finally, we would like to extend our deep gratitude to all those who have contributed to the financial support of MESM'20.

Prof. Marwan Al-Akaidi and Prof. Omar R. Daoud

December, 2020

General Information

Date and Location

MESM conference has been held in Amman, Jordan, at the Philadelphia University Amman, Jordan. Amman occupies a privileged geographical position at the center Jordan, in addition to its historical value.

The Host Country Jordan

Official Language:

The official language in Jordan is Arabic. The second language which is taught at school until baccalaureate is English. Note that the official language of the MESM is English.

Conference Web-Site

▲ <https://www.eurosis.org/conf/mesm/2020>

General Conference Chair

Prof. Marwan Al-Akaidi (UAE)

Local Conference Chair

Prof. Omar R. Daoud (JO)

International Steering Committee

Abdelqadr, Ikhlas.....(USA)	Adams, Marks.....(UAE)
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Kadhim, Abdelkareem(IRQ)	Yang, Hongi.....(UK)
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Topics:

- Service Innovation and Management
- Modelling and Simulation Methodology
- Artificial Intelligence: Fuzzy Systems, Neural Networks and Genetic Algorithms.
- Augmented Reality/Virtual Reality Systems
- Block chain
- Knowledge management
- Computer Networks, Security & IoT
- Digital Signal/Image Processing
- Energy/solar System
- Business and Economics
- Decision Support Systems
- Biomedical Applications
- Industrial Applications
- Web-based Simulation
- Software Engineering
- Cyber Security and Information Processing
- Quality Control and Management
- Data Analytics

MESM'20 Conference Program		
Date	Wednesday Dec. 16 th	Thursday Dec. 17 th
Time		
11:45-12:00	Opening	
12:01-12:35	Keynote Speaker	Keynote speaker
12:40-13:40	Session 1: Biomedical Applications	Session 4: Modelling and Simulation Methodology
13:45-14:45	Session 2: Software Engineering and Block Chain	Session 5: Digital Signal/Image Processing-1
14:50-15:50	Session 3: Service Innovation and Industrial Application	Session 6: Digital Signal/Image Processing-2
15:55-16:15		Closure

Wednesday, 16th of December, 2020

Link: <https://meet.google.com/jzk-evgx-wbw>

Wednesday, 11h45-12h00

Opening



Link: <https://meet.google.com/yht-mnya-qvc>

Wednesday, 12h01-12h35

Keynote Speech Session:

Chairs: Prof. Kasim Al-Aubaidy (JO)

KNS How industry 4.0 will shape the University of the future and simulation and modelling programs.

Prof. Yousef Al-Assaf..... (UAE)

Link: <https://meet.google.com/gmi-kqda-jjy>

Wednesday, 12h40-13h40

Session 1 : Biomedical Applications

Chairs : Prof. Saleh Al-Saraireh (JO)

- MESM01 New ways of improving the family mediation training programmes in England and Wales
Amel Ketani.....(UK)
- MESM02 Prevalence, bacteriological profile, maternal risk factor and obstetric outcome analysis of symptomatic Urinary Tract Infections (UTI) in pregnant women in secondary care hospital
Heena Anuff.....(UAE)
- MESM10 Harmonic Analysis for A Medical Facility in Amman – Case study
Anas Kata'a Abdullah Abu Leahya Prof. Othman Al-Smadi(JO)
- MESM25 Influence of COVID-19 on Knowledge Sharing and Learning Outcomes - Educational Perspective
Jarrah Al-Mansour(KW)

Link: <https://meet.google.com/dbq-ydyy-jsc>

Wednesday, 13h45-14h45

Session 2 : Software Engineering and Block Chain

Chairs : Prof. Jamal Rahhal (JO)

- MESM03 Tokenization In Real Estate Business
Darina Saxunova and Peter Slivka(UAE)
- MESM21 Fetch and Analyze Iraqi Crisis Tweets
Dr. Bayan Alsabar Noor Saihood Alajili.....(IRQ)
- MESM22 Study of Data Security Risks for E-Government
Abdulhakeem Amer A......(IRQ)
- MESM23 Towards Emergent Modeling: The Human-Like Mind as a Case Study
Nabil Kamel.....(EG)

Link: <https://meet.google.com/ixs-oydo-yys>

Wednesday, 14h50-15h50

Session 3 : Service Innovation and Industrial Application

Chairs : Dr. Ibrahim Al-Naimi (JO)

MESM1 2 The Role of Enterprise Risk Management on Disclosure Transparency in the International Financial Reporting Standards Period.

Bisan Almasri.....(JO)

MESM1 3 Minimizing transmission load in the 433 Mhz radio link based image sensor

S Suherman, Marwan Al-Akaidi and Al-Khowarizmi..... (ID)

MESM1 8 External Debt Vulnerability in the COVID19 Era: Evidence from Emerging Markets and Developing Economies

Sarah El-Khishin Mahmoud Mohieldin.....(EG)

MESM1 9 Identify the situation of COVID-19 patients Using Ontology and Semantic web

Hayder Ibrahim Hendi, Haider Hassan Mshali.....(IRQ)

Link: <https://meet.google.com/kvx-nauj-fib>

Thursday, 12h00-12h35

Keynote Speech Session:

Chairs: Prof. Omar R. Daoud (JO)

KNS Blockchain insights from The United Arab Emirates: The Country of Possibilities.

Dr. Marwan Al-Zarouni (UAE)

Link: <https://meet.google.com/ogw-uaeb-qtb>

Thursday, 12h40-13h40

Session 4 : Modelling and Simulation Methodology

Chairs : Prof. Abdulkarim Abdulrahman (IRQ)

MESMo 9 Path Loss Model for Amman Area

Anas Kata'a Abdullah abu lehya Abd Al-Rahman Abu Zahrah(JO)

MESM1 1 RFID Based Access Control System by using Arduino

Safa Ali Abed, Khansaa Dheyaa Aljafaar(IRQ)

MESM1 6 Proposed logarithmic features for automatic modulation classification

Bayan M. sabbar , Hussain A. Rasool (IRQ)

MESM2 4 Wavelet Transform: Theory, Analysis, and Development :Review

Dr. Asmaa Hameed Rasheed Dr. Bayan M. Sabbar(IRQ)

Link: <https://meet.google.com/hvk-csnt-cpg>

Thursday, 13h45-14h45

Session 5 : Digital Signal/Image Processing-1

Chairs : Prof. Bayan Sabbar (IRQ)

- MESMo 5 Estimation of Coherent Signal on Modified Coprime array
Fatimah A. Salman , Bayan M. Sabbar.(IRQ)
- MESMo 7 Metrics for Assessing the Scale of Significance of the Factors Influencing the Effect of Visual Elements in the Print Advertisements
Yue Wu, Hongji Yang, Zhongxi Lu, Yinwei Liu and Chong Zeng.....(UK)
- MESM1 7 A New System for Converting Voices of Persian letters into Gesture
Shaker K. Ali, Zahoor M. Aydam Wamidh K. Mutlag.....(IRQ)
- MESM2 0 A Machine Learning based Associating Degree Predicting Algorithms Applying in Tourism Areas
Qinyun Liu Marwan Al-Akaidi and Hongji Yangi.....(UK)

Link: <https://meet.google.com/pqc-cyji-uxb>

Thursday, 14h50-15h50

Session 6 : Digital Signal/Image Processing-2

Chair : Prof. Hongji Yang (UK)

- MESMo 6 Expert FPGA Based Design for Huge Data Systems
Asmaa Hameed Rasheed.....(IRQ)
- MESMo 8 Microstrip Slot-U Rectangular Antenna Implementation for Broadcasting TV Receiver
Arman Sani, Citra Fadhillah, Suherman and Marwan Al-Akaidi.....(ID)
- MESM1 4 Performance Analysis of Massive MIMO Uplink Detection over Millimeter Wave Band Channel Model.
Alza A. Mahmood and Abdulkareem A. Kadhim.....(IRQ)
- MESM1 5 Novel Recommendation Model In Location-Based Social Networks
Reem Atassi Ons Al-Shamaileh and Hakim Hacid.....(UAE)
- MESMo 4 Proposed logarithmic features for automatic modulation classification
Bayan M. sabbar, Hussain A. Rasool.....(IRQ)

Link: <https://meet.google.com/mzq-troe-jaa>

Wednesday, 15h55-16h15

Closure



*We are looking forward to seeing you in Amman-Jordan, during the
17th Middle Eastern Simulation & Modelling,*

<https://www.eurosis.org/conf/mesm>