

FINAL PROGRAM



14-16 November 2011

Arab Open University

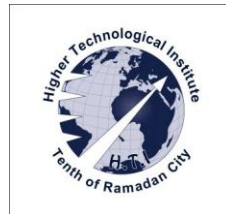
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MESM'2011 – GAMEON-ARABIA'2011 FINAL PROGRAMME

Overhead and LCD Projector are standard

The underlined authors are usually the presenters.

Conference Site: Arab Open University, Behind Queen Alia Hospital and Close to the Association of Arab University – Tareq, P. O. Box 1339 Postal Code 11953

 Tel. ++962 6 5630630  Fax ++962 6 5630610, <http://www.aou.edu.jo>

Only papers in gray boxes are eligible for the best paper award

Monday, November 14, 2011

09.30 - 16.00 **Registration**

09.30 - 10.00 **Welcome**

Welcome Address

Professor Dr. Marwan Al-Akaidi, AOU, Safat, Kuwait

Professor Abu Qudais, AOU, Amman, Jordan

Professor Mohammad Hamdan

Professor Ken Newman, HTC, Abu Dhabi

10.00 - 10.30 **Coffee/Tea Break**

10.30 - 12.30 **Session I**

DATA SIMULATION AND MANAGEMENT

10.30-12.30

Session Chairperson:

Marwan Al-Akaidi, AOU, Safat, Kuwait

MESM_AI_06

Self-Organizing Maps and Principal Component Analysis for Tomato Yield Datasets

Kefaya Qaddoum, Evor Hines, Daciana Illiescu and

Muhd Khairulzaman Abdul Kadir 5

MESM_AI_10

Smart Search: An Intelligent Search System for the Oman National Transport Company using Web Ontology Language

Sherimon P.C., Raja Waseem Anwar, Youssef Saad Takroni,

Reshmy Krishnan and Vinu P.V..... 10

Monday, November 14, 2011

MESM_WEB_01 A Plausible Ancestor Generator <u>Ken Newman</u>	16
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MESM_BIO_01 Modelling of the Biodynamic responses of the Feet to Vertical Vibration <u>Naser Nawayseh</u>	73
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12.30 - 14.00 **Lunch Break**

14.00 - 15.00 **Session II**

ENGINEERING SIMULATION

14.00-15.00

Session Chairperson:

Marwan Al-Akaidi, AOU, Safat, Kuwait

MESM_ENG_01

Numerical Simulation for the Formability Prediction of the Laser Welded Blanks (TWB)

Hossein Mamusi, Abolfazl Masoumi and Ramezanali Mahdavinejad.... **55**

MESM_AI_05

Investigative Model Reference Controller for Servomotor Tracking System based on Neural Network

Raaed K. Ibrahim..... **60**

15.00 - 15.30 **Coffee/Tea Break**

Monday, November 14, 2011

15.30 - 18.30 **Session III**

ELECTRONICS SIMULATION

15.30-18.30

Session Chairperson:

Marwan Al-Akaidi, AOU, Safat, Kuwait

GAMEON_AR_SER_01

A Self Evolving Controller for a Physical Robot: A new Introduced avoiding Algorithm

Dan Marius Dobrea, Adriana Sirbu and Monica Claudia Dobrea 65

MESM_AI_07

Fuzzy Modeling of Dynamic Electronic Devices

Basil Sh. Mahmood and Omar Abd Al-Razzak Ibrahim 23

MESM_AI_04

Simulation of Model Reference Neural Network for Network Routing Protocols

Anas Ali Hussien 31

MESM_MULTI_02

Simulation Methods for Delays and Packets Dropout Avoidance in Solar-Power Wireless Network

Waleed Al-Azzawi, Marwan Al-Akaidi and John Gow..... 36

MESM_MULTI_01

Inter-Frame Retransmission for Video Surveillance over WIMAX

Suherman, Marwan Al-Akaidi and Raouf Hamzaoui..... 42

MESM_PAR_01

Numerical Modeling of Load Balanced Multicore Servers in a Cloud Cluster

Vasil Georgiev and Jouni Karvo 48

18.30 -

FREE EVENING

Tuesday, November 15, 2011

09.00 - 12.00 **Registration**

09.00 - 10.00 **Session IV**

TERRITORIAL INTELLIGENCE ENGINEERING I

09.00-10.00

Session Chairperson:

Cyrille Bertelle, Université du Havre, Le Havre, France

INTRO

Introduction to Territorial Intelligence Engineering

Cyrille Bertelle

MESM_WORK_01

European Structural Funds and regional interactions, which convergences for the European regions?

Bernard Elissalde, Patrice Langlois and Dominique Goyat **81**

10.00 - 10.30 **Coffee/Tea Break**

10.30 - 12.30 **Session V**

TERRITORIAL INTELLIGENCE ENGINEERING II

10.30-12.30-

Session Chairperson:

Cyrille Bertelle, Université du Havre, Le Havre, France

MESM_WORK_06

From the event to the ephemeral city

Françoise Lucchini, Bernard Elissalde and Sylviano Freire-Diaz..... **88**

MESM_WORK_04

Modeling Urban Cultural Systems with the Integrative Simulation Platform *ROUANTS*

Rawan Ghnemat, Françoise Lucchini and Cyrille Bertelle **96**

Tuesday, November 15, 2011

MESM_WORK_03

SIMTRAP : A Multi-Agent Model for Decision Support in Spatial Planning of the Passengers' Spaces in Public Transport Systems
 Jérémy Fiegel, Cyrille Bertelle and Arnaud Banos **101**

MESM_WORK_05

Multi-Agent Constraint optimization Approach to Modeling of Demand Responsive Transport Systems
 Habib Abdulrab, Eduard Babkin and Eugene Ivlev..... **105**

12.30 - 14.00 **Lunch Break**

14.00 - 15.00 **Session VI**

TERRITORIAL INTELLIGENCE ENGINEERING III

14.00-15.00

Session Chairperson:

Cyrille Bertelle, Université du Havre, Le Havre, France

MESM_WORK_02

Multi-scale Analysis of the Vulnerability of Road Networks
Cyrille Bertelle, Antoine Dutot, Michel Nabaa and Damien Olivier **110**

TIE ROUNDTABLE DISCUSSION

Cyrille Bertelle

15.00 - 15.30 **Coffee Break**

Tuesday, November 15, 2011

15.30 - 17.30 **Session VII**

TUTORIAL

15.30-17.30

Session Chairperson:

Marwan Al-Akaidi, AOU, Safat, Kuwait

MESM_TUT

Systems Thinking and Simulation Modeling for Complex Strategic Problems


Yaman Barlas

19.00 - 22.00 **CONFERENCE DINNER**

REEM ALBAWADI Lebanese restaurant

Location: From Al Waha intersection on Gardens Street and Madina Street, head in the direction of Holiday Inn. Take the 1st right, then another right.

Reem Al Bawadi will be on your left, opposite to Amman Mall.

 962-6-5515419

Wednesday, November 16, 2011

09.00 - 09.30 **Registration**

09.00 - 10.00 **Session VIII**

E-LEARNING

09.00-10.00

Session Chairperson:

Ken Newman, HTC, Abu Dhabi

MESM_WEB_03

A Framework Model for an Accessible e-Learning Platform

Jehad Al-Sadi 119

MESM_WEB_01

Adopting e-Learning Strategy at The Arab Open University

Bayan Abu-Shawar 124

10.00 - 10.30 **Coffee/Tea Break**

10.30 - 12.30 **Session IX**

GAME DESIGN AND AI

10.30-12.30-

Session Chairperson:

Ken Newman, HTC, Abu Dhabi

MESM_AI_08

Teaching Object-Oriented Concepts with the Help of ALICE

Khalid Al-Tahat 131

GAMEON_AR_DES_01

MAPSHD – AIM Framework for Game Design

Russell B. Williams 139

GAMEON_AR_SER_01

Sanctions, Punishment, and Game design: Designing MMORPGs for Fair Treatment of Players

Georgios Christou 144

Wednesday, November 16, 2011

GAMEON_AR_AI_01 Fuzzy Q-Learning for First Person Shooters <u>Youssef S. G. Nashed</u> and Darryl N. Davis 149

12.30 - 12.45 **Session X**

CLOSING SESSION

12.30-12.45-

Session Chairperson:

Professor Dr. Marwan Al-Akaidi, AOU, Safat, Kuwait

Best Paper Award Ceremony and closing statements

Thursday, November 17, 2011

CONFERENCE VISIT TO PETRA

07.30 - 20.30 **Visit to Petra**
Departure from the Amman Jerusalem Hotel and return to the Amman Jerusalem Hotel (exact time to be confirmed at the conference)

SEE YOU NEXT YEAR

AT MESM 2012- GAMEON-ARABIA'2012
(dates and location to be confirmed in December 2011)

ALL SESSION CHAIRPERSONS IN THIS PROGRAM ARE PROVISIONAL

Session Chairs are chosen on a voluntary basis by proposals by either authors or local committee members or are appointed by the Track Chairs, General Program Chair or General Conference Chair. They are responsible for their assigned session. They make sure their speakers are available, take care of the timing within the session, chair the discussion after each presentation and introduce each speaker based on the CV's given to them by the authors. **If a session chair is not available then the first author takes on the responsibility to chair**

THE NUMBERS NEXT TO THE PRESENTATIONS DENOTE THE PAGE-NUMBERS IN THE PROCEEDINGS. IF NO NUMBERS ARE MENTIONED THEN THIS PAPER IS NOT PUBLISHED IN THE PROCEEDINGS

THE AUTHORS WHO ARE UNDERLINED ARE NORMALLY THE PRESENTERS

PAPERS IN GREY BOXES ARE THE EXTENDED PAPERS ELIGIBLE FOR THE BEST PAPER AWARD

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<http://www.eurosis.org>

BEWARE: As some of the authors might not be granted a Jordanian visa it is possible that some of the papers might not be presented.

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EUROSIS was borne out of discussions with the European Community to set up a new kind of Society, which would be project-driven instead of driven by pure membership and conferences.

The aim of the Society is to set up topic related Technical Committees which will link directly to European Projects in the field of computer simulation and related areas and to act as a knowledge pool for future European Networks of Excellence, like MOSAIC.

If you would like to receive more information about EUROSIS, please contact

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