

# MICS'10 INTERNATIONAL CONFERENCE

ENSIAS, Rabat–Morocco, November 2–4, 2010

## PROGRAM

### Tuesday, November 02, 2010

**8:30 am - 9:15 am**

**Registration**

**9:15 am - 9:45 am**

**Opening**

**9:45 am - 11:00 am**

**Keynote**

New advances in ad hoc and sensor networks

**Pr. Kun-Mean HU** Professor of Computer Science, ESIMA, Clermont- Ferrand University, France

**11:00 am - 11:15 pm**

**Break**

**11:15 pm - 12:30 pm**

**Session 1 SF (Amphi I): System Security**

Session Chair: **Pr. Kun-Mean HU**

Protecting EPR Data Using Cryptography and Digital Watermarking

*Y. ZAZ and L. El Fadil*

*FPO - Ibn Zohr University, Ouarzazate, Morocco*

**Integration of Quantum Cryptography in the TLS Protocol: Reality and Perspectives**

*Mohamed Elboukhari<sup>1</sup>, Abdelmalek Azizi<sup>1,2</sup> and Mostafa Azizi<sup>3</sup>*

*(1) dept. Mathematics & Computer Science FSO, University Mohamed Ist, Oujda, Morocco*

*(2) Academy Hassan II of Sciences & Technology Rabat, Morocco*

*(3)Dept. Applied Engineering ESTO, University Mohamed Ist Oujda, Morocco*

**A Distributed Key Management Scheme for MANET using council architecture**

*Abdelmajid HAJAMI and Mohammed ELKOUTBI*

*SI2M, ENSIAS, Université Mohammed V – Souissi, B.P. 715, ENSIAS – Rabat Maroc*

**1:00 pm - 2:00 pm**

**Lunch**

**2:15 pm - 3:30 pm**

**Keynote**

Collaborative Knowledge Management and Data Discovery: Applications, Challenges and Opportunities

**Pr. Aris Ouksel**

*University of Illinois, Chicago*

**3:30 pm - 4:00 pm**

**Break**

**4:00 pm - 6:00 pm**

**Session 1 SF (Amphi I): Learning Systems: Modeling, Knowledge and Technology**

Session Chair: **Pr. Ismail Kassou**

Outline of a New Fuzzy Learning Scheme for Competitive Neural Networks

*Mohammed Madiafi, Hanane Ben Rachid, Abdelaziz Bouroumi*

*Modeling and Instrumentation Laboratory, Hassan II Mohammedia University, UH2M, Casablanca, Morocco*

**Learning scenarios modeling by recursive entity modeling method: Study case**

*RIFAI Amal<sup>1</sup>, MESSOUSSI Rochdi<sup>1</sup> and BAKRIM M'hamed<sup>2</sup>*

*(1) Laboratory of "Systems of Telecommunications and Engineering of the Decision (LSTED)", Team "Data processing and Engineering of the Decision", University Ibn Tofail, Faculty of Sciences, Kenitra, Morocco*

*(2) Laboratory of "Processes, Metrology and Materials for Energy and Environment" (LP2M2E), University Cadi Ayyad, Faculty of Sciences and Techniques, BP. 549,*

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*Marrakech, Morocco*

**Conception of learning scenarios database and an ergonomic interface for its manipulation**

*RIFAI Amal<sup>1</sup>, MESSOUSSI Rochdi<sup>1</sup> and BAKRIM M'hamed<sup>2</sup>*

*(1) Laboratory of "Systems of Telecommunications and Engineering of the Decision (LSTED)", Team "Data processing and Engineering of the Decision", University IbnTofail, Faculty of Sciences, Kenitra, Morocco*

*(2) Laboratory of "Processes, Metrology and Materials for Energy and Environment" (LP2M2E), University Cadi Ayyad, Faculty of Sciences and Techniques, BP. 549,*

*Marrakech, Morocco*

**Design of an adaptive e-Learning Model Based on Learner's Personality**

*Essaid El Bachari, El Hassan Abelwahed, Mohammed El Adnani*

*Department of Computer Science, FSSM Cadi Ayyad University, Marrakesh, Morocco*

**On Maskin's Impossibility of Two –player Nash Implementation**

*Ahmed Doghmi<sup>1,2</sup> and Abderrahmane Ziad<sup>2</sup>*

*(1)National Institute of Statistics and Applied Economics, Rabat, Morocco.*

*(2) University of Caen, Center for Research in Economics and Management, Caen, France.*

### **Day posters**

**Security of information systems: Implementation of Encryption**

*Mohammed ERRITALI, Mohamed Fakir, Belaid Bouikhalene, Faculté des sciences et techniques, Benimellal, Maroc*

**Affine Invariant and Recognizing**

*M.Elhachloufi, Faculty Semlalia , Marrakech, Morocco*

*A. El Oirrak, Faculty Semlalia , Department of Informatics, Marrakech, Morocco*

*D. Aboutajdine, Faculty of Science, Rabat,*

*M.N. Kaddioui, Faculty Semlalia , Marrakech, Morocco*

**New Methodology for Intrusion Detection based on Multi - Agents System**

*Siham BENHADOU, ENSEM, Hassan2 university AinChock, Casablanca, Morocco*

**A generic platform for multi-agent system simulation**

*R. El Bejjat, H. Medromi, National and High School of Electricity and Mechanics, Hassan II – Ain Chock University, Casablanca, Morocco.*

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## PROGRAM

### Wednesday, November 03, 2010

**8:30 am - 10:15 am**

**Session 2 NF** (Amphi I): Network Management

Session Chair: **Pr. Christoph Stiller**

Frequency-Domain Interpolation Based on Comb-Type Arrangement in OFDM Systems

*YOUSSEFI My Abdelkader and EL ABBADI Jamal*

*Laboratoire d'Electronique et Communication, EMI-Rabat, Morocco*

Multihoming support in the Internet: A state of the art

*Amine Dhraief Abdelfettah Belghith*

*HANA Research Group, Manouba University, Tunisia*

Management and Functioning of MPLS/QOS In the IMS architecture

*A. SAIKA<sup>1,2</sup>, R. EI KOUCH<sup>1</sup>, M. BELLAFKIH<sup>1</sup>, B. RAOUYANE<sup>1</sup> and M. M. HIMMI<sup>2</sup>*

*(1) Laboratoire Systèmes et Communication. INPT*

*(2) Laboratoire d'informatique, Mathématiques appliquées, intelligence artificielle et reconnaissance de formes. FSR*

Temporal behavior of Ethernet communications: Impact of the operating system and protocol stack

*Pedro Silva<sup>1,2</sup>, Luis Almeida<sup>1,2</sup>, Mário Sousa<sup>2</sup> and Ricardo Marau<sup>2</sup>*

*(1) Instituto de Telecomunicações, Porto*

*(2) DEEC - Faculdade de Engenharia da Universidade do Porto, Rua Dr. Roberto Frias, 4200-465 Porto Portugal*

**10:15 am - 11:00 am**

**Inauguration of the IEEE-ITSS Moroccan chapter**

**11:00 am - 11:15 am**

**Break**

**11:15 am - 12:30 am**

**Keynote**

Collaborative Automobiles

**Pr. Christoph Stiller**, Karlsruhe Institute of Technology, IEEE- ITS Society Representative

**1:00 pm - 2:00 pm**

**Lunch**

**2:15 pm - 3:30 pm**

**Keynote**

IPv6: état de la normalisation IETF

**Pr. Radouane Mrabet**, Professor of Computer Science, Director of ENSIAS, Chairman of IPv6 Task Force in Morocco

*ENSIAS, Mohamed V - Souissi University, Morocco*

**3:30 pm - 3:45 pm**

**Break**

**3:45 pm - 5:50 pm**

**Session 3NF** (Amphi I): Vehicular Networks

Session Chair: **Pr. Mohamed Essaïdi**

An efficient Routing Algorithm for Collaborative Applications on Leased Overlay Networks

*Mohamed Aissa<sup>1</sup>, Adel Ben Mnaouer<sup>2</sup> and Abdelfettah Belghith<sup>3</sup>*

*(1) University of Nizwa Nizwa, Sultanate of Oman*

*(2) Dar Al-Uloom University Saudi Arabia*

*(3) Hana Research Group University of Manouba - Tunisia*

Study and simulation of the protocols of routing with and without constraints in Ad hoc environment

*Hicham Zougagh<sup>1</sup>, Toumanari ahmed<sup>1</sup>, Latif Rachid<sup>1</sup>, Nour Eddine Idboufker<sup>2</sup> and Lhoucine Lghojdami<sup>2</sup>*

*(1) Equipe Signaux et Systeme & Informatique(ESSI) à ENSA Agadir Morocco.*

*(2) Laboratoire reseau et telecommunication à ENSA Marrakech Morocco.*

Topology Discovery Modeling and Characteristics' Computing for Next-Generation Vehicular Networks

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## PROGRAM

*Ali HAMLILI*

*ENSIAS, Mohamed V-Souissi university*

### **A Common Computational Approach Analyzing Dynamicity and Connectivity for Reliable Communications in Multihop Wireless Networks**

*Ali HAMLILI*

*ENSIAS, Mohamed V-Souissi university*

### **Access Control and Modeling of Heterogeneous Flow in a 3.5G Mobile Network by using MMPP and Poisson processes**

*Abdelali EL BOUCHTI<sup>1,2</sup>, Abdelkrim HAQIQ<sup>1,2</sup>, Mohammed HANINI<sup>1,2</sup> and Mohamed EL KAMILI<sup>3</sup>*

*(1)Department of Mathematics and Computer, FST, Hassan 1st University, Settat, Morocco*

*(2) e- NGN research group, Africa and Middle East*

*(3) LISQ, Sidi Mohammed Ben Abdellah University, Fez, Morocco*

### **3:45 pm - 5:50 pm**

#### **Session 2 SF (Amphi II): Information Systems and Service Oriented Computing**

Session Chair: **Pr. Jean-Michel Bruel**

#### **E-Strategy: State model based on the Impact concept**

*N. Belkhat, A. Doukkali, and B. Regragui*

*Team: Information Processing and E-Strategy, ENSIAS, Rabat, Morocco,*

#### **Combination intentional and functional modeling for strategic alignment**

*Karim DOUMI, Salah BAÏNA, Karim BAÏNA*

*ENSIAS, Mohamed V - Souissi university*

#### **Towards a Context-Aware Service Design and Development Paradigm**

*Hatim Hafiddi, Hicham Baidouri, Mahmoud Nassar, Bouchra El Asri, Abdelaziz Kriouile*

*SI2M Laboratory, ENSIAS, Rabat, Morocco*

#### **Towards a Model Driven Approach for variability management in SOA**

*B. CHAKIR, M. FREDJ*

*ENSIAS, Mohammed V Souissi University, Rabat, Morocco.*

#### **A Model Driven Development Approach to Creating Adaptable SOA Applications**

*Adil Kenzi, Bouchra El Asri, Mahmoud Nassar, Abdelaziz Kriouile*

*ISM Team, SIME Laboratory, ENSIAS, Rabat, Morocco*

### **Day posters**

#### **An electronic voting based on multi-party computation**

*LHOUSSAIN EL FADIL,*

#### **Strategic Information System Alignment: Holistic Meta-modeling Implementation**

*Noureddine Falih, Azedine Boulmakoul, FST, Mohammedia, Morocco*

*Rabia Marghoubi, INPT – 2, Rabat – Morocco*

#### **Un système pédagogique adaptatif dans les EIAH**

*Mustapha EL AMMARI, Faddoul KHOUKHI, Faculté des Sciences et Techniques, Mohammedia*

#### **A global modeling of electrical energy supply chain**

*EL AFIA Abdellatif, ET-TOLBA El Hassan*

*Ecole Nationale Supérieure d'Informatique et d'Analyse des Systèmes ENSIAS, Rabat, Morocco*

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## PROGRAM

### Thursday, November 04, 2010

**8:30 am - 9:45 am**

#### Keynote

Ambient systems based model

**Pr. Jean-Michel Bruel**, Professor of Computer Science University of Toulouse, France

**9:45 am - 10:00 am**

#### Break

**10:00 am - 12:05 am**

**Session 3 SF** (Amphi I): Modeling and Composition of Structural and Behavioral Models

Session Chair: **Pr. Bernard Coulette**

Reusability of Business Process Models using a querying mechanism based on OODBMS

Assia Rharbi<sup>1</sup>, Zohra Bakkoury<sup>1</sup> and Abdelkader Betari<sup>2</sup>

(1) Labo SIR Système d'Information et Répartition : Ecole Mohammadia d'Ingénieurs Rabat, Morocco

(2) Labo LIF de Marseille, UMR 6166 – CNRS Université de la Méditerranée, Université de Provence Marseille, France

Coupling Application of ArcGIS, ArcView and ERDAS (Extension for ArcGIS) for developing a GIS prototype

A.M. El khamlich<sup>1</sup>, L. Herhar<sup>1</sup>, A. El ouahrani<sup>1</sup>, A. El mahbou<sup>2</sup> and A. Merzouki<sup>3</sup>

(1) Faculty of Science University Abdelamlek Essaadi Tétouan, Morocco

(2) Agence du Bassin Hydraulique de Loukous Tétouan, Morocco

(3) Faculty of Pharmacy University of Granada Granada, Spain

Probe Events: A new mechanism to support behavioral modeling

Younes Lakhrissi<sup>1,2</sup>, Julian Ober<sup>1</sup>, Mahmoud Nassar<sup>3</sup>, Bernard Coulette<sup>1</sup>, and Abdelaziz Kriouile<sup>3</sup>

(1) Université de Toulouse, IRIT, UT2, 5 allées A. Machado, 31058, Toulouse, France

(2) Université Mohamed V-Agdal, ACSYS, Faculté des Sciences, BP 1014 Rabat, Maroc

(3) Université Mohamed V-Suissi, SI2M-ENSIAS, Madinat Al Irfane, BP 713, Rabat, Maroc

Towards a Complete Models Comparison for information Systems Integration Context

S. Benabdellah Chaouni<sup>1</sup>, M. Fredj<sup>1</sup> and S. Moulina<sup>2</sup>

(1) ENSIAS, Mohammed V Souissi University, Rabat, Morocco,

(2) FSR, Faculty of Sciences, Rabat, Morocco,

FlexRFID: A Policy Based Event Management Middleware for RFID Applications Development

M. E. Ajana<sup>1</sup>, H. Harroud<sup>2</sup>, M. Boulmal<sup>2</sup>, and M. Elkoutbi<sup>1</sup>

(1) SI2M Lab, ENSIAS, Rabat, Morocco

(2) WML lab, Alakhawayn University in Ifrane, Morocco

**10:00 am - 11:40 am**

**Session 4 NF** (Amphi II): Network performance and logistics

Session Chair: **Pr. Hassan Berbia**

Performances Analysis of serial Concatenated codes based on BCH and LDPC Codes using Berlekamp-massey and sum-product algorithms

A.AIT MADI, A.MANSOURI, A.AHAITOUF, F.ABDI

Sidi Mohammed Ben Abdellah University, Faculty Sciences and Technolgy, Signals Systems and Components Laboratory, B.P.2202, Fez, V.N 30000 Morocco

E-Service Interoperability Measurement within Business Collaboration Networks

Badr ELMIR, Bouchaib BOUNABAT

Al-Qualsadi Research & Development Team, Ecole Nationale Supérieure d'Informatique et d'Analyses des Systèmes (ENSIAS), Université

Mohammed V – Souissi, Rabat Maroc

Planification Of Gaz Distribution: Modeling And Resolution

R. AYADI and Y. BENADADA

Université Mohammed V-Souissi, RO\_L – ENSIAS, Rabat, Morocco,

QoS Criteria in IEEE 802.16 Collision Resolution Protocol

Abdelillah Karoui<sup>1</sup>, Abdelkrim Haqiq<sup>1</sup>, and Luis Orozco Barbosa<sup>2</sup>

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(1) Department of Mathematics and Computer Hassan 1st University Faculty of Sciences and Techniques, Settat, Morocco e-NGN research group, Africa and Middle East

(2) Albacete Research Institute of Informatics, University of Castilla La Mancha (UCLM), 02071 Albacete, Spain

### A Cost-Delay Shortest Path Algorithm for Multicast Tree Stability

Adel Ben Mnaouer, Dar Al-Uloom Univ. Saudi Arabia

Mohamed Aissa, University of Nizwa, Nizwa, Sultanate of Oman

Abdelfettah Belghith, HANA Research group, Univ. of Manouba, Tunisia

**1:00 pm - 2:00 pm**

**Lunch**

**2:15 pm - 3:30 pm**

**Keynote**

IEEE Norms in vehicular networks

**Pr. Mohamed Essaaidi**, Professor of Computer Science IEEE Senior Member, IEEE Morocco Section Chairman  
Abdelmalek Essaadi University, Tetouan, Morocco

**3:30 pm - 3:45 pm**

**Break**

**3:45 pm - 4:30 pm**

**Session 4 SS (Amphi I): Software Engineering and applications**

Session Chair: **Pr. Bouchaïb Bounabat**

Workflow and e-governance: A case study in Marrakech

El Khadiri Mohamed<sup>1</sup>, Tiba Ibtissam<sup>2</sup>, El Fazziki Abdelaziz<sup>1</sup>

(1)Department of Informatics Faculty of FSSM Marrakech, Morocco

(2) CRI of Marrakech Marrakech, Morocco

**A NEW SELF-TUNING FUZZY CONTROL APPROACH**

M. Jerrari and M. Elbelkacemi.

Laboratory conception and system, department of physics, Faculty of Science, University Mohammed V, Rabat Morocco

**Building HMM recognizer for Arabic Digits using HTK**

Z.HACHKAR<sup>1,2</sup>, A. FARCHI<sup>3</sup>, B.MOUNIR<sup>1</sup>, and J. EL ABBADJ<sup>2</sup>

(1)Ecole Supérieure de Technologie, Safi, Morocco.

(2)Ecole Mohammadia d'Ingénieurs, Rabat, Morocco.

(3)Faculté des sciences et Techniques, Settat, Morocco.

**3:45 pm - 5:00 pm**

**Session 2 (Grand Amphi): Energy : Optimization, Distribution and Applications**

Session Chair: **Pr. Dafir Ech-cherif El Kettani**

Reduction of power cost in DV-hop Localization Algorithm for Wireless Sensor Networks

A. Beni hssane, My. L. Hasnaoui, M. Saadi, S. Benkirane, M. Laghdir

Chouaïb Doukkali University, Faculty of Sciences, Department of Mathematics and Computer Science, MATIC laboratory, El Jadida, Morocco

**Algorithm of decision-making aids To optimize the Scheduling of the tasks of maintenance in real time**

Aissam Aboussalim and Mohamed Medioui

Industrial data processing department, Ensa Agadir, Laboratory of the Industrial engineering and data -processing

**Multi-region distribution of petroleum products in large quantities by a heterogeneous vehicles fleet**

Mohammed Taha Benslimane, Youssef Benadada, Abdellatif El Afia, Adil Bellabdaoui

Computer science and decision support Dept. ENSIAS- Mohammed V-Souissi University

**Pulse Width Modulation for class D Audio power amplifier with 85% of efficiency**

Ziani Messghati, Yassir Laghizal and Hassan Qjidaa

Laboratoire d'Electronique Signaux, Systèmes et Informatique (LESSI) Fès Morocco, Faculté des sciences Dhar El Mehraz Fez Morocco

**Application of Fuzzy Logic for Regulation Speed Strategy in Direct Torque Control Scheme of Induction Motor**

My.R.DOUIRI<sup>1</sup>, M.CHERKAOUJ<sup>1</sup>, T.NASSER<sup>2</sup>, and A.ESSADKI<sup>3</sup>

(1)Dept. of electrical engineering, Mohammadia School of Engineers, (EMI), Rabat, Morocco

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## PROGRAM

(2) Dept. Communication Networks, National School of Computer Science and System Analysis, (ENSIAS), Rabat, Morocco

(3) Dept. electrical engineering, Superior School of Technical Education, (ENSET), Rabat, Morocco

### Day posters

#### A Model Design of Multi-Agent Systems

Sara Maalal, Hicham Medromi

Equipe Architecture des Systèmes, ENSEM, Casablanca, Maroc

#### OFF-LINE PRINTED AMAZIGH SCRIPTS RECOGNITION

R. EL YACHI, M. FAKIR, B. BOUIKHALENE, S. SAFI

Faculty of Science and Techniques, University Sultan Moulay Slimane, Beni Mellal, Morocco

#### Specifying security aspects in decision support systems

Ahlam KHADROUF, Laïla KJIRI, ENSIAS, Rabat, Maroc

#### A Pretopological Approach for Unsupervised Pattern Classification

F. Ghanimi<sup>1</sup> Université Ibn Tofaïl, Faculté des Sciences, Kénitra, Morocco

A. Sbihi<sup>2</sup>, Université Abdelmalek Essaâdi, ENSA Tanger, Morocco

M. Sbihi, Université Mohammed V Agdal, EST, Morocco