



***2016 International Conference on Information
Technology for Organizations Development***

March 30 - April 1st, 2016

Palais des Congrès

Fez, Morocco

Program

Preface

It is with great honor and pleasure that we welcome you to the 2016 IEEE International Conference on Information Technology for Organizations Development (IT4OD-2016). This event is organized by The ENSA School of Fez and the ERSI Laboratory with a large collaboration with the FST of Fez and ANRITE Association.

This conference is highly sustained the Sidi Mohammed Ben Abdellah university who deployed its entire infrastructure and its large financial provision to help us. The IT4OD-2016 is taking place on March 30, March 31 and April 1st 2016 at the Congress Palace, Fez, Morocco.

Continuing the success of the first edition IT4OD-2014 conference, IT4OD-2016 serves as a forum for disseminating advanced methods, techniques and tools for supporting approaches to IT engineering and management. Industrials and researchers are encouraged to exchange ideas and approaches on how to adopt a quality culture in IT process and product improvement and to provide practical studies in varying contexts.

The papers were categorized into nine oral sessions:

- 1- Software Engineering and Business Intelligence
- 2- Information Security Management and Tools for Organizations Development
- 3- Telecommunication and Transmission Systems
- 4- Information Management and services Integration
- 5- Multimedia Information Processing and Applications 1
- 6- Wireless and Network Computing
- 7- Natural Language Processing, Machine Learning and Semantics,
- 8- Multimedia Information Processing and Applications 2
- 9- Smart Systems and Green Technology.

We would like to take this opportunity to thank all the authors who were submitted their work to this conference and in the same time we present our regrets to those who cannot be attend this event with us.

We have the honor to welcome our very notable keynotes speakers. Many thanks to:

| | |
|--------------------------|--|
| Pr. Patnaik Srikanta, | SOA University, INDIA |
| Pr. Mohamed Adel Serhani | College of Information Technology, UNITED ARAB EMIRATES |
| Pr. Mazalov Vladimir | Russian Academy of Sciences, RUSSIA |
| Pr. Abderrafiaa Koukam | Belfort-Montbéliard University, FRANCE |
| Pr. Nasser Jamalkhan | Environmental Management Practices; UNITED KINGDOM |

We also would like to be very grateful for the support of a large number of individuals and organizations without which, the achievement of this conference would not have been possible, namely:

- The Program Committee (PC) consists of experts in the various source subfields.
- The Local Organizing Committee managed everything following the policy of IT4OD-2016.

Finally, we would like to express our deep appreciation and very grateful to a conference Partners and sponsors for their support:

- University of Sidi Mohamed Ben Abdellah, represented by Its President, **Pr. O. ASSOBBEI**
- ENSA school of Fez, in the person of the director **Pr. K. ESSAFI**
- FST of Fez, represented by its dean **Pr. M. IJJALI**
- Faculty of Sciences of Fez, in the person of the dean **Pr. M. BENLEMLIH**
- ERSI Laboratory: Laboratory of Renewable Energies and Intelligent Systems
- Association ANRITE
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Program March 30, 2016

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| 8h - 9h30 | Reception and Registration | | |
| 9h30 - 10h | Official Opening Ceremony | | |
| 10h - 10h30 | Coffee break | | |
| 10h30 - 11h30 | Talk 1: Pr. Patnaik Srikanta , SOA University, INDIA « Nature Inspired Computing and Optimization » President: M. El Mohajir | | |
| 11h30 - 12h30 | Talk 2: Pr. Mohamed Adel Serhani, College of Information Technology UNITED ARAB EMIRATES « Big Data: A Substantial Shift in Information Technology » President: O. El Beqqali & A. Ouksel | | |
| 12h30 - 14h | Lunch | | |
| 14h - 15h | Talk 3: Pr. Mazalov Vladimir, Russian Academy of Sciences, RUSSIA « Centrality Measures for Weighted Graphs and Applications in Communication Networks » President: Ezzouhairi & A. Koukam | | |
| 15h - 15h30 | Coffee break | | |
| 15h30 - 18h30 | Session 1 Software Engineering and Business Intelligence President: A. Serhani & A. Kenzi | Session 2 Information Security Management and Tools for Organisations Development President: Y. Khamlichi & : M. Berrada | Session 3 Telecom and Transmission Systems President: S. Bennani & M. Jorio |

Program March 31, 2016

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| 9h30 - 10h | Coffee break | | |
| 10h - 12h30 | Session 4 Information Management and service Integration President: P. Srikanta & H. Bendjenna | Session 5 Multimedia Information Processing and Applications 1 President: J. Ouazzani & G. Khaissidi | Session 6 Wireless and Network Computing President: V. Mazalov & H. El Fadili |
| 12h30 - 14h | Lunch | | |
| 14h - 15h | Talk 5: Pr. Nasser Jamalkhan, Environmental Management Practices, UNITED KINGDOM «Open Source Software Development link to Green Information Technologies » President: A. Ahaitouf & A. Mansouri | | |
| 15h - 15h30 | Coffee break | | |
| 15h30 - 18h30 | Session 7 Natural Language Processing, Machine Learning and Semantics President: E. H. Nfaoui & A. Lachkar | Session 8 Multimedia Information Processing and Applications 2 President: M. Mrabti & F. Abdi | Session 9 Smart Systems and Green Technology President: N. Es-sbai & A. Mechaqrane |

Program April 1st, 2016

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| 11h30 - 12h30 | Closing Ceremony |
| 12h30 | |
| Lunch | |

Honorary Keynote Speakers

Talk 1: Nature Inspired Computing and Optimization



Pr. Srikanta Patnaik

Department of Computer Science and Engineering. SOA University

INDIA

Talk 2: Big Data: A Substantial Shift in Information Technology



Pr. Mohamed Adel Serhani

College of Information Technology, UAE University

UNITED ARAB EMIRATES

Talk 3: Centrality Measures for Weighted Graphs and Applications in Communication Networks



Pr. Vladimir Mazalov

Institute of Applied Mathematical Research.
Russian Academy of Sciences

RUSSIA

Talk 4: Agent Oriented Approaches: Principle, Methodology and Applications



Pr. Abderrafiaa Koukam

University of Technology of Belfort-Montbéliard

FRANCE

Talk 5: Open Source Software Development link to Green Information Technologies



Pr. Nasser Jamalkhan

Researcher in Environmental Management Practices

UNITED KINGDOM

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