

# **2011 Colloquium in Information Science and Technology**

**(CIST 2011)**

**Fez, Morocco  
11 – 12 May 2011**



**IEEE Catalog Number: CFP1167R-PRT  
ISBN: 978-1-4673-0116-9**

# TABLE OF CONTENTS

<b>Keynote : Data Warehouses: Construction, Exploitation and Personnalisation</b> <i>Ladjel Bellatreche</i> , LISI/ENSMA – Poitiers University, 1, Futuroscope, France	p1
<b>Keynote: Basic Research at Universities and its Impact on Innovation Processes and Industry</b> <i>Kurt R. Richter</i> , IEEE Life Fellow, Graz, Oesterreich	p2
<b>Creation of Al Mabsout Moroccan Fonts Format</b> <i>Ilham Chaker, Rachid Benslimane, Mostafa Harti</i> Laboratoire de Transmission et de Traitement d'Information, UFR NTIC, FSDM Sidi Mohamed Ben Abdellah University, Fez, Morocco	p3
<b>An Ontology-Based Approach for Web Information Extraction</b> <i>Ismail Jellouli, Mohammed El Mohajir</i> Computer sciences department, Faculty of sciences Dhar Mahraz, University of Sidi Mohamed Ben Abdelah, Fez, Morocco	p5
<b>An Oriented Service Architecture and model for GIS health management: Case of cancer in Morocco</b> <i>Zouiten Mohammed, Harti Mostafa and Nejjari Chakib</i> Faculty of Medicine and pharmacy, University of Sidi Mohamed Ben Abdelah, Fez, Morocco	p6
<b>Telecom Datawarehouse Prototype for Bandwidth and Network Throughput Monitoring and Analysis</b> <i>Badreddine El Mohajir<sup>1</sup>, Mohammed El Mohajir<sup>2</sup>, Members, IEEE</i> <sup>1</sup> LTS laboratory, University Abdelmalek Essadi, Faculty of sciences, Tetuan, Morocco <sup>2</sup> University Sidi Mohamed Ben Abdelah, Faculty of sciences, Fez, Morocco	p7
<b>Color Facial Authentication System Based on Neural Network</b> <i>N. Belghini, A. Zarghili, J. Kharroubi and A. Majda, Member, IEEE</i> LTTI laboratory, Sidi Mohamed Ben Abdellah University, Morocco	p8
<b>System of Indexing, Annotation and search in the old Arabic Manuscripts</b> <i>Noureddine EL MAKHFI<sup>1</sup>, Omar EL BANNAY<sup>1,2</sup>, Rachid BENSLIMANE<sup>1</sup>, Noureddine RAIS<sup>2</sup></i> <sup>1</sup> Laboratoire de Transmission et Traitement de l'Information (LTTI), Ecole Supérieure de Technologie <sup>2</sup> Laboratoire d'Informatique Statistique et Qualité (LISQ), Faculté des sciences Dhar El Mahrez University of Sidi Mohamed Ben Abdellah, Fez	p9
<b>Search Engine of ancient Arabic Manuscripts based on metadata and XML Annotations</b> <i>Noureddine EL MAKHFI<sup>1</sup>, Omar EL BANNAY<sup>1,2</sup>, Rachid BENSLIMANE<sup>1</sup>, Noureddine RAIS<sup>2</sup></i> <sup>1</sup> Laboratoire de Transmission et Traitement de l'Information (LTTI), Ecole Supérieure de Technologie <sup>2</sup> Laboratoire d'Informatique Statistique et Qualité (LISQ), Faculté des sciences Dhar El Mahrez University of Sidi Mohamed Ben Abdellah, Fez	p10
<b>The quality Process in a Professional context: Software Industry case</b> <i>Nabila NEJJAR<sup>1</sup>, Mohamed LAMRINI<sup>2</sup>, Mohammed ALACHHAB<sup>3</sup></i> Laboratoire Informatique Statistique Qualité LISQ, Faculté des Sciences Dhar Mehraz, Morocco	p11

**A Reference Model for an improved Collaborative Business processing in a Moroccan Governmental Administration**

*M. El Mohajir, Z. Hamza, A. Latrache, and N. Dad*

Computer sciences department, Faculty of sciences Dhar Mahraz,  
University of Sidi Mohamed Ben Abdelah, Fez, Morocco

p12

**The Quality Integrating Data Mining with Case Based Reasoning for Personalized Adaptation of Context-aware Applications in Pervasive Environments**

*N. GOUTTAYA, A. BEGDOURI*

Laboratoire Modélisation et Calcul scientifique (LMC)  
Faculty of technical sciences, Fez, Morocco

p13

**Graphical Specification and Formal Verification of the Workflow Petri nets Properties in a Business Process Context**

*Mohammed Alachhab, Mohammed El Mohajir*

Computer sciences department, Faculty of sciences Dhar Mahraz,  
University of Sidi Mohamed Ben Abdelah, Fez, Morocco

p15