

# Workshop

# Sensors and Emergent Applications

November 10-11, 2014

Centre de recherche en informatique, multimédia et traitement des données  
(Technopole de Sfax)

## Monday, November 10, 2014

08h45-09h00	Opening Ceremony	M. Jmail General Manager of the Research Center, Sfax (Tunisia)
09h00-10h00	Trends and Challenges for Smart Sensors	O.Kanoun Technische Universität Chemnitz (Germany)
10h00-10h30	Sensors Based on Multifunctional Hybrid Nanocomposites	A. Benchirouf, Chr. Müller, O. Kanoun Technische Universität Chemnitz (Germany)
10h30-11h00	Coffee Break	
11h00-12h30	Soft Lithographies and Microfabrication for Microfluidics and Biology	A.-M. Haghiri Laboratoire de Photonique et de Nanostructures de Marcoussis (France)
12h30-14h00	Lunch Break	
14h00-15h00	Lab-on-a-Chip Devices	A.-M. Haghiri Laboratoire de Photonique et de Nanostructures de Marcoussis (France)
15h00-15h30	Bioimpedance Spectroscopy in the Application of Meat Characterization	M. Guermazi, N. Derbel, O. Kanoun Technische Universität Chemnitz (Germany)
15h30-16h00	Surface-Modification of Carbon Nanotubes for High Strain Sensing Applications	A. Bouhamed, A. Benchirouf, A. Sanli, Chr. Müller, O. Kanoun Technische Universität Chemnitz (Germany)
16h00-16h30	Coffee Break	
16h30-17h00	Usability of Kinetic Vibration for Energy Harvesting	S. Naifar, S. Bradai, T. Keutel, O. Kanoun Technische Universität Chemnitz (Germany)
17h00-17h30	Electrodynamic Vibration Converter with Enhanced Robustness	S.Bradai, S. Naifar, T. Keutel, O. Kanoun Technische Universität Chemnitz (Germany)
17h30-18h00	Light Management for Smart E-Bikes	M.Götz, T. Keutel, O. Kanoun Technische Universität Chemnitz (Germany)

## Tuesday, November 11, 2014

09h00-10h30	Nanomatériaux pour le Photovoltaïque	R. Chtourou Centre de Recherches et des Technologies de l'Energie, Technopôle Borj Cédria (Tunisia)
10h30-11h00	Coffee Break	
11h00-12h30	Les Nano-Satellites pour le Contrôle de la Qualité de l'Eau	K. Besbes Centre de Recherches en Micro-électronique et Nanotechnologies de Sousse (Tunisia)
12h30-14h00	Lunch Break	
14h00-15h00	Power Aware Wireless Sensor Networks	F. Derbel Leipzig University of Applied Sciences (Germany)
15h00-15h30	Power Supply Methods for Autonomous Sensor Systems	Chr. Viehweger, T. Keutel, O. Kanoun Technische Universität Chemnitz (Germany)
15h30-16h15	Investigations on WBANs Health Care Applications	L. Chaari ISIMS, Sfax, (Tunisia)
16h15-16h45	Coffee Break	
16h45-17h15	Indoor Localization of Surgical Items in an Operating Room based on Wireless Sensor Networks	A. Guidara, F. Derbel Leipzig University of Applied Sciences (Germany)
17h15-17h45	Wireless Sensor Networks for Precision Farming	S. Khriji, D. Houssaini, N.Chouikhi, O. Kanoun Technische Universität Chemnitz (Germany)
17h45-18h15	Closing Ceremony	