

Contents

Volume 190
Issue 7
July 2015

www.sensorsportal.com

ISSN 2306-8515
e-ISSN 1726-5479

Research Articles

Parametric Study and Effect of Beam Material on a Unimorph Piezoelectric Energy Harvester with Tip Mass <i>Almuatasim Alomari, Ashok Batra, Mohan Agarwal, C. R. Bowen</i>	1
Virtual and Self-Validating Sensor for Speed Estimation of a DC Motor in a Prototype Plant <i>Fernando Crivellaro, Gustavo Künzel, Alexandre Balbinot</i>	10
Multimode Fiber Coupled Superconducting Nanowire Transition Edge Sensor for Detection of Single-Photon at Optical and Near-Infrared Wave Lengths <i>Venkata Naga Vamsi Annepu, Bhujanga Rao. Annepu, Venkata Lakshmi Narayana K....</i>	19
Room Temperature Single Walled Carbon Nanotubes (SWCNT) Chemiresistive Ammonia Gas Sensor <i>Bala Sekhar Dasari, William R. Taube, Pankaj B. Agarwal, Mayank Rajput, Anil Kumar, Jamil Akhtar</i>	24
Naphthalimide Based Al-Selective Fluorescent Probe and its Use in Cell Imaging <i>Shaobai Wen, Yuxiang Ji, Chaxiang Guan, Qiongyao Fu</i>	31
Room Temperature Detection of Benzene Vapours by Tin Oxide Nano Clusters <i>J. N. Panchal, S. G. Patel, V. S. Vaishnav</i>	35
An Approach of Dynamic Object Removing for Indoor Mapping Based on UGV SLAM <i>Jian Tang, Tong Yu, Yuwei Chen, Jingbin Liu</i>	40
Online Monitoring of Temperature Using Wireless Module in a Rotating Drum-Applicable to Leather Industries <i>T. Narayani, Rames C Panda, Sobana S. and C. Muralidharan</i>	47
Mammographic Image Analysis of Breast Using Neural Network <i>Lesa Mambwe, Chitundu Bwalya, Sudha Ramasamy</i>	53
The Development of Synchronization Function for Triple Redundancy System Based on SCADE <i>Moupeng, Duan Xiaojun</i>	58
Design of Self-Tuning Fuzzy Logic Controller <i>Sushant Narang, Sudha Ramasamy, Prabhu Ramanathan</i>	63
Metrological Array of Cyber-Physical Systems. Part 9. Qualimetry of Natural Gas as Energy Source <i>Andriy Motalo, Vasyl Motalo, Bohdan Stadnyk, Marta Yatsyshyn</i>	72

Metrological Array of Cyber-Physical Systems. Part 10. Foundations of Objective Qualimetry

Svyatoslav Yatsyshyn, Vasyl Motalo, Bohdan Stadnyk and Andriy Motalo..... 81

A Simple Method for Determining Thermal Expansion Coefficient of Solid Materials with a Computer-aided Electromagnetic Dilatometer Measuring System

Z. Ezzouine and A. Nakheli..... 86

Authors are encouraged to submit article in MS Word (doc) and Acrobat (pdf) formats
by e-mail: editor@sensorsportal.com. Please visit journal's webpage with preparation instructions:
<http://www.sensorsportal.com/HTML/DIGEST/Submission.htm>

International Frequency Sensor Association (IFSA).



SEIA' 2015

International Conference on Sensors Engineering and Electronics Instrumental Advances

**21-22 November 2015
Dubai, UAE**

CALL FOR PAPERS

The conference is focusing any significant breakthrough and innovation in Sensors, Electronics, Measuring Instrumentation and Transducers Engineering Advances with broadest concept, by focusing on main areas as:

- **Sensor Technology**
- **Instruments and Measuring Technology**
- **Automation and Control**

Dubai attractions: the city is known for luxury shopping, ultramodern architecture and a lively nightlife scene. Burj Khalifa, an 830 m-tall tower, dominates the skyscraper-filled skyline. At its foot lies Dubai Fountain, with jets and lights choreographed to music. On man-made islands just offshore is Atlantis, the Palm, a resort with water and marine-animal parks.

Important Dates:

Paper Submission
(2-page abstract):
15 October 2015

Notification of Acceptance:
25 October 2015

Registration:
31 October 2015

Conference Date:
21-22 November 2015



www.sensorsportal.com/HTML/CONFERENCES/SEIA_2015/