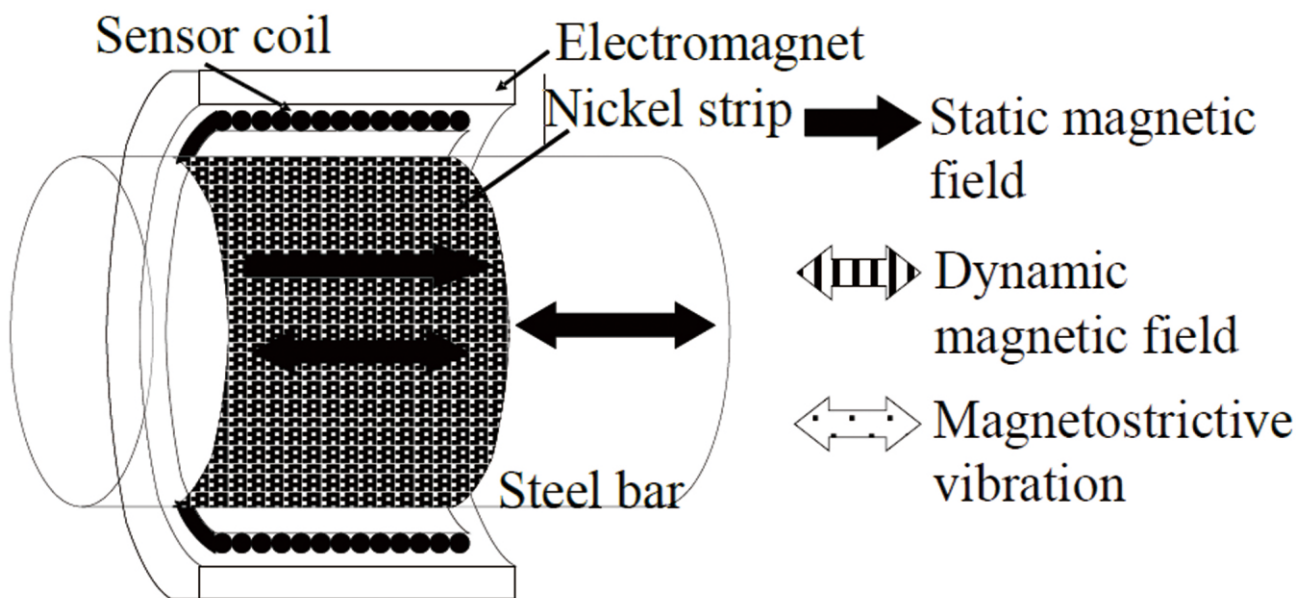


# Journal of Sensor Technology



(C) Drive principle of a bar wave sensor using thin Nickel sheet

ISSN 2161-122X



# Journal Editorial Board

ISSN: 2161-122X (Print), ISSN: 2161-1238 (Online)

<http://www.scirp.org/journal/jst>

---

## Editor-in-Chief

**Prof. Ashok Srivastava**

Louisiana State University, USA

## Editorial Board

**Dr. Bruno Andò**

The University of Catania, Italy

**Prof. Aytunç Ates**

Yildirim Beyazit University, Turkey

**Dr. Nada Farouk Atta**

University of Cairo, Egypt

**Prof. Saad Belkhiat**

Setif University, Algeria

**Prof. İsmail Hakkl Boyaci**

Hacettepe University, Turkey

**Prof. Vinod Kumar Gupta**

Indian Institute of Technology, India

**Prof. Chang-Sik Ha**

Pusan National University, South Korea

**Prof. Songling Huang**

Tsinghua University, China

**Prof. Kamaruzaman Jusoff**

Universiti Putra Malaysia, Malaysia

**Dr. Dae-Sik Lee**

Electronics and Telecommunications Research Institute, South Korea

**Dr. Weihua Li**

University of Wollongong, Austria

**Dr. Qingjun Liu**

Zhejiang University, China

**Prof. Xiaobing Luo**

Huazhong University of Science and Technology, China

**Dr. Graça M. H. Minas**

University of Minho, Portugal

**Dr. Sandeep Negi**

University of Utah, USA

**Prof. Yiqing Ni**

The Hong Kong Polytechnic University, China

**Dr. Dongning Wang**

The Hong Kong Polytechnic University, China

**Dr. Wenming Zhang**

Shanghai Jiao Tong University, China

**Prof. Yong Zhang**

Xi'an Jiaotong University, China

**Prof. Yong Zhao**

Northeastern University, China

## Table of Contents

Volume 4    Number 4

December 2014

### **Detecting Urinary Bladder Contractions: Methods and Devices**

J. Melgaard, N. J. M. Rijkhoff.....165

### **Ultrasonic Inspection System Using a Long Waveguide with an Acoustic Horn for High-Temperature Structure**

R. Murayama, M. Kobayashi, K. Matsumoto, M. Kobayashi.....177

### **Iron-Selective Electrode Based on Phosphorylated Calix-6-Arene Derivative**

M. M. Zareh, W. Zordek, A. Abd-Alhady.....186

# **Journal of Sensor Technology (JST)**

## **Journal Information**

### **SUBSCRIPTIONS**

The *Journal of Sensor Technology* (Online at Scientific Research Publishing, [www.SciRP.org](http://www.SciRP.org)) is published quarterly by Scientific Research Publishing, Inc., USA.

#### **Subscription rates:**

Print: \$69 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### **SERVICES**

#### **Advertisements**

Advertisement Sales Department, E-mail: [service@scirp.org](mailto:service@scirp.org)

#### **Reprints (minimum quantity 100 copies)**

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### **COPYRIGHT**

#### **COPYRIGHT AND REUSE RIGHTS FOR THE FRONT MATTER OF THE JOURNAL:**

Copyright © 2014 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

#### **COPYRIGHT FOR INDIVIDUAL PAPERS OF THE JOURNAL:**

Copyright © 2014 by author(s) and Scientific Research Publishing Inc.

#### **REUSE RIGHTS FOR INDIVIDUAL PAPERS:**

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

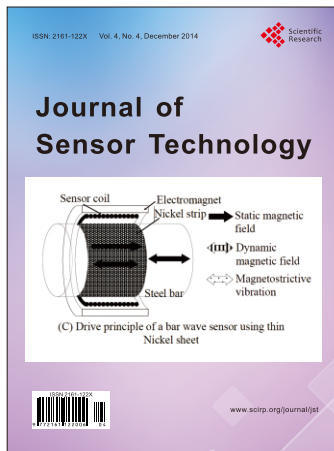
#### **DISCLAIMER OF LIABILITY**

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

### **PRODUCTION INFORMATION**

For manuscripts that have been accepted for publication, please contact:

E-mail: [jst@scirp.org](mailto:jst@scirp.org)



# Journal of Sensor Technology (JST)

ISSN 2161-122X (Print) ISSN 2161-1238 (Online)  
<http://www.scirp.org/journal/jst>

**Journal of Sensor Technology** should be the international journal devoted to research on sensor technologies including sensor design, implementation, characterizations and application oriented technical development. It is an interdisciplinary journal serving professionals with an interest in the exploitation of biological materials and designs in novel sensor diagnostic, supervision (or surveillance), and electronic devices including sensors, DNA chips, electronic noses, lab-on-a-chip, etc. Research of physical effects, measurement, theory, modeling and simulation of sensors, is welcome.

## Editor-in-Chief

**Prof. Ashok Srivastava**

Louisiana State University, USA

## Subject Coverage

The journal publishes original papers including but not limited to the following fields:

- Arrayed Sensors
- Biosensors
- Flow Sensors
- Interferometry Based Sensors
- MEMS Pressure Sensors
- Micro Accelerometers Mems Gyroscopes
- Microelectromechanical Systems (MEMS)
- Multi-Sensor Data Fusion
- Nano-Photonic Based Sensors
- Optical Fiber Based Sensors
- Sensor Fabrication and Packaging Techniques
- Sensor Networks
- Sensor Signal Processing
- Surface Enhanced Raman Scattering (SERS) Sensors
- Surface Plasmon Based Sensors
- Ultrasonic Transducers

We are also interested in: 1) Short reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book reviews—Comments and critiques.

## Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

## Website and E-mail

<http://www.scirp.org/journal/jst>

E-mail: [jst@scirp.org](mailto:jst@scirp.org)

