

2011 IEEE Sensors Proceedings

**Limerick, Ireland
28-31 October 2011**

Pages 1-706



**IEEE Catalog Number: CFP11SEN-PRT
ISBN: 978-1-4244-9290-9**

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Ioannis Raptis, NCSR IMEL, Athens*

Optical Sensor System Detecting PPM Concentrations of Hydrogen and Hydrocarbon Gases at Low Temperature Using GaN/InGaN Nanowires

paper not available at time of publication

Sumit Paul, EADS Innovation Works

Andreas Helwig, EADS Innovation Works

Gerhard Müller, EADS Innovation Works

Pascal Becker, Justus-Liebig-Universität Gießen

Florian Furtmayr, Technische Universität München

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**SPECIAL SESSION: Sensor Technologies for Environmental Monitoring
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Chairs: *Yunqi Liu, Shanghai University*
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Fernanda Chiriaco, National Research Council, IFC
Enzo Antonio Sbenaglia, National Research Council, IFC
Francesco Conversano, National Research Council, IFC
Sergio Casciaro, National Research Council, IFC
Andrea Ragusa, National Nanotechnology Laboratory, CNR-NANO

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Graça Minas, Universidade do Minho

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Sunday, October 30

9:00 AM - 10:30 AM

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Room: Concert Hall

Chairs: Aime Lay-Ekuakille, University of Salento
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Chairs: Changyuan Yu, National University of Singapore
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Miodrag Potkonjak, University of California, Los Angeles

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Saro Meguerdichian, University of California, Los Angeles

Miodrag Potkonjak, University of California, Los Angeles

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Jin-Chern Chiou, National Chiao Tung University

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Mercedes Crego-Calama, IMEC Netherlands / Holst Centre

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Jan Musschoot, Gent University

Christophe Detavernier, Gent University

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Heather Vereb, Virginia Polytechnic Institute and State University

Bassam Alfeeli, Virginia Polytechnic Institute and State University

Andrea Dietrich, Virginia Polytechnic Institute and State University

Masoud Agah, Virginia Polytechnic Institute and State University

Optochemical Transducers Based on GaN Nanodiscs

in Nanowires *paper not available at time of publication*

Jörg Teubert, Justus-Liebig-Universität Gießen

Pascal Becker, Justus-Liebig-Universität Gießen

Florian Furtmayer, Technische Universität München

Martin Eickhoff, Justus-Liebig-Universität Gießen

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Peng-Sheng Chen, Indiana University

A. George Akingba, Indiana University

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Jason Roberts, Texas A&M University

Bradley Collier, Texas A&M University

Michael McShane, Texas A&M University

4:00 PM - 5:30 PM

Thermal Sensors

Room: *Jean Monet*

Chairs: *Maryam Ziaei-Moayyed, Sandia National Labs*

Konandur Rajanna, Indian Institute of Science

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Alessandro Lazzarini Barnabei, Università di Pavia

Marco Grassi, Università degli Studi di Pavia

Daria Pinna, Università degli Studi di Pavia

Enrico Dallago, Università degli Studi di Pavia

Piero Malcovati, Università degli Studi di Pavia

Giulio Ricotti, STMicroelectronics

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Renata Melamud, SiTime Corporation

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Philip Armstrong, University of Minnesota
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Joel Carney, Indian Head Division, Naval Surface Warfare Center
James Lightstone, Indian Head Division, Naval Surface Warfare Center
Joseph Talghader, University of Minnesota

4:00 PM - 5:30 PM Macroscopic Sensor Applications
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Chairs: Gregory Pandraud, TU Delft
José Luis Santos, INESC, Porto

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Robert Walmsley, Hewlett-Packard

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Javier Torres-Sanchez, Tyndall National Institute
Brendan O'Flynn, Tyndall National Institute
Cian O'Mathuna, Tyndall National Institute
Robert Donahoe, Full Flight Technology LLC

4:00 PM - 5:30 PM

Wireless Interfaces

Room: Charles Parsons

Chairs: Peter S.-K. Liaw, National Taiwan University of Science & Technology
Tigang Ning, Beijing Jiaotong University

Powering Wireless Sensors: Microtechnology-Based Large-Area Thermoelectric Generator for Mass Applications 1293

Gunnar Pasold, TRW Switzerland GmbH
P. Etlin, TRW Switzerland GmbH
Marcus Hahn, TRW Switzerland GmbH
Uwe Muster, TRW Switzerland GmbH
Vahe Nersessian, TRW Switzerland GmbH
Donato Bonfrate, Interstaatliche Hochschule für Technik Buchs NTB
Rudolf Buser, Interstaatliche Hochschule für Technik Buchs NTB
Marco Cucinelli, Interstaatliche Hochschule für Technik Buchs NTB
Martin Gutsche, Interstaatliche Hochschule für Technik Buchs NTB
Marcel Kehl, Interstaatliche Hochschule für Technik Buchs NTB
Nicolas Zäch, Interstaatliche Hochschule für Technik Buchs NTB
Roger Hazelden, TRW Conekt

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Vittorio Ferrari, Università degli Studi di Brescia
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Richard Rose, Universität Erlangen-Nürnberg
Alexander Goetz, Universität Erlangen-Nürnberg
Robert Weigel, Universität Erlangen-Nürnberg
Alexander Koelpin, Universität Erlangen-Nürnberg

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Yan Cui, Southeast University
Xiaoping Liao, Southeast University
Zheng Zhu, Key Laboratory of MEMS of Ministry of Education, Southeast University

Novel Narrowband Acoustic Sensors for Sub-GHz Wireless Measurements 1309

David Rabus, FEMTO-ST Institute
Thomas Baron, FEMTO-ST Institute
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Jean-Michel Friedt, SENSEOR SAS

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Stanley Ness, Brigham Young University
Danny Richards, Brigham Young University
Joseph Oxborrow, Brigham Young University
Timothy Gustafson, Brigham Young University
Ben Tsai, Brigham Young University
Brian Mazzeo, Brigham Young University
Adam Woolley, Brigham Young University

4:00 PM - 5:30 PM

SPECIAL SESSION: Optical Metrology for Structural Health Monitoring

Room: FG042

Chairs: *Frederic Surre, City University London*

Marco Petrovich, University of Southampton

Invited: Calibration Facility for Quality Certification of Surface-Attached Fiber

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Wolfgang Habel, BAM Federal Institute for Materials Research and Testing
Vivien Schukar, BAM Federal Institute for Materials Research and Testing
Nadine Kusche, BAM Federal Institute for Materials Research and Testing

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Thanh Binh Pham, ENSEEIHT-INPT
Han Cheng Seat, ENSEEIHT-INPT
Olivier Bernal, Université de Toulouse, CNRS, LAAS
Maha Suleiman, -

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Sanjay Chikermane, Indian Institute of Technology Bombay
Ken Grattan, City University London
Sun Tong, City University London
Frederic Surre, City University London
Richard Scott, Durham University

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Tong Sun, City University London
Ken Grattan, City University London
Elena N. Barton, National Physical Laboratory
Bufa Zhang, National Physical Laboratory
Nick McCormick, National Physical Laboratory

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William N Macpherson, Heriot-Watt University
James S Barton, Heriot-Watt University
Mark Carne, Atomic Weapons Establishment
Mark Swan, Atomic Weapons Establishment
J Nik Sharma, Atomic Weapons Establishment
Simon K Futter, Atomic Weapons Establishment
David A Knox, Atomic Weapons Establishment
Benjamin J S Jones, Atomic Weapons Establishment
Scott McCulloch, Atomic Weapons Establishment*

Monday, October 31

9:00 AM - 10:30 AM Nanosensors

Room: Concert Hall

Chairs: *Michael Kraft, University of Southampton
Svetlana Tatic-Lucic, Lehigh University*

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Massood Tabib-Azar, University of Utah*

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Ning Xi, Michigan State University
Bo Song, Michigan State University
LiangLiang Chen, Michigan State University
King Wei Chiu Lai, Michigan State University*

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Lei Xu, Jingdezhen Ceramic Institute
Zhan Zhan, Xiamen University
Jiang Du, Xiamen University
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Lingyun Wang, Xiamen University
Daoheng Sun, Xiamen University*

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*Karumbaiah Chappanda, University of Utah
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Peter Offermans, IMEC Netherlands / Holst Centre
Greja Brom-Verheyden, IMEC Netherlands / Holst Centre
Sywert Brongersma, IMEC Netherlands / Holst Centre
Mercedes Crego-Calama, IMEC Netherlands / Holst Centre*

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9:00 AM - 10:30 AM	SPECIAL SESSION: Self-mixing Laser Sensors
Room: <i>Jean Monet</i>	
Chairs: <i>Thierry Bosch, Université de Toulouse, LAAS</i> <i>Hans JFL Goosen, TU Delft</i>	
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9:00 AM - 10:30 AM **Fluids and Flow**

Room: John Holland

Chairs: Martin Eickhoff, Giessen University
Chongqing Wu, Beijing Jiaotong University

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Tomomi Makishita, Tokyo University of Agriculture and Technology

Hiroshi Ishida, Tokyo University of Agriculture and Technology

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Paolo Bruschi, Università di Pisa

Federico Butti, Università di Pisa

Massimo Piotto, National Research Council, IEIT

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Hubert Zangl, Graz University of Technology

Thomas Bretterklieber, Graz University of Technology

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Glen Guhr, Leibniz Institute for Solid State and Materials Research Dresden

Raimund Brünig, Leibniz Institute for Solid State and Materials Research Dresden

Hagen Schmidt, Leibniz Institute for Solid State and Materials Research Dresden

Manfred Weihnacht, Leibniz Institute for Solid State and Materials Research Dresden

Siegmund Gehrisch, Institute for Clinical Chemistry and Laboratory Medicine TU Dresden

Gerlinde Siegert, Institute for Clinical Chemistry and Laboratory Medicine TU Dresden

Smart Catheter Flow Sensor for Continuous Regional Cerebral Blood Flow Monitoring1417

Chunyan Li, Feinstein Institute for Medical Research

Pei-Ming Wu, Feinstein Institute for Medical Research

Zhizhen Wu, University of Cincinnati

Chong H. Ahn, University of Cincinnati

Jed A. Hartings, University of Cincinnati

Raj K. Narayan, North Shore-LIJ Health System Foundation

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Akihiko Hyodo, Hitachi Ltd.

Kenichi Osada, Hitachi Ltd.

Hideaki Kurata, Hitachi Ltd.

Shigeru Oho, Hitachi Ltd.

9:00 AM - 10:30 AM **SPECIAL SESSION: Intelligent Wearable Wireless Inertial Measurement**

Room: Charles Parsons

Chairs: Michael Walsh, Tyndall National Institute
Clan O'Mathuna, Tyndall National Institute

Invited: Wearable Wireless Sensing for Sports and Ubiquitous Interactivity1425

Michael Lapinski, Massachusetts Institute of Technology

Mark Feldmeier, Massachusetts Institute of Technology

Joseph Paradiso, Massachusetts Institute of Technology

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Olivier Leman, IM2NP – CNRS / Aix-Marseille University

El Mehdi Boujamaa, IM2NP – CNRS / Aix-Marseille University

Wenceslas Rahajandraibe, IM2NP – CNRS / Aix-Marseille University

Edith Kussener, IM2NP – CNRS / Aix-Marseille University

Stéphane Meillère, IM2NP – CNRS / Aix-Marseille University

Hervé Barthélémy, IM2NP – CNRS / Aix-Marseille University

Guillaume Jourdan, CEA-Léti

Patrice Rey, CEA-Léti

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Nagesh Yadav, University College Dublin

Chris Bleakley, University College Dublin

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Damien Connaghan, Dublin City University

Phillip Kelly, Dublin City University

Noel E. O'Connor, Dublin City University

Mark Gaffney, Tyndall National Institute

Michael Walsh, Clarity Centre for Sensor Web Technologies / Tyndall National Institute

Cian O'Mathuna, Clarity Centre for Sensor Web Technologies / Tyndall National Institute

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John Barton, Tyndall National Institute

Brendan O'Flynn, Clarity Centre for Sensor Web Technologies / Tyndall National Institute

Cian O'Mathuna, Clarity Centre for Sensor Web Technologies / Tyndall National Institute

Magdalena Tyndyk, MEDIC Cork Institute of Technology

9:00 AM - 10:30 AM

Multi-axis Sensors

Room: FB028

Chairs: *Maryam Ziaei-Moayyed, Sandia National Labs*

Marco Grassi, University of Pavia

Design and Fabrication of Electro-Thermally Activated Micro Gripper with

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Jay Jamshid Khazaai, Oakland University

Hongwei Qu, Oakland University

Meir Shillor, Oakland University

Lorenzo Smith, Oakland University

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Grant McCallum, Case Western Reserve University

Rosa Lahiji, Case Western Reserve University

Mehran Mereghy, Case Western Reserve University

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Baek-chul Kim, Sungkyunkwan University
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Yungkwan Lee, Sungkyunkwan University
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Hyouk Ryeol Choi, Sungkyunkwan University
Hyungpil Moon, Sungkyunkwan University
Jachoon Koo, Sungkyunkwan University

Proposed Digital, Auto Ranging, Self Calibrating Inertial Sensor1457

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Charles Tally, SSC Pacific
Richard Waters, SSC Pacific

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Antoine Dupret, CEA-Léti
Dominique David, CEA-Léti

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Xiaoyan Dang, Intel Labs China
Wei Wang, Intel Labs China
Kevin Wang, Intel Labs China
Mingzhi Dong, Beijing University of Posts and Telecommunications
Liang Yin, Beijing University of Posts and Telecommunications

9:00 AM - 10:30 AM

Optical Sensors & Systems I

Room: FG042

Chairs: *Nan-Kuang Chen, National United University*
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Ulrike Hempel, Institute for Automation and Communication
Bernd Henning, University of Paderborn*

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Brian Nordmann, U.S. Dept. of State

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Chairs: *Giuseppe Scarpa, Technische Universität München*
José Manuel Baptista, Madeira University

Invited: Conducting Polymer Transistors

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Nicola Cioffi, Università degli studi di Bari Aldo Moro
Gerardo Palazzo, Università degli studi di Bari Aldo Moro
Gaetano Scamarcio, CNR-INFM LIT3
Antonia Mallardi, National Research Council, IPCF
Ananth Dodabalapur, University of Texas at Austin
Luigia Sabbatini, Università degli studi di Bari Aldo Moro
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Andrea Cusano, Università degli Studi del Sannio

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Guy Plantier, ESEO
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Carlos Barreiro, Rowan University
Ari Bross, Rowan University
John Schmalzel, Rowan University
Peter Jansson, Rowan University

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Bonnie Gray, Simon Fraser University
Ash Parameswaran, Simon Fraser University
Ramani Ramaseshan, BC Cancer Agency-Abbotsford Centre
Kirpal Kohli, Fraser Valley Cancer Centre

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Daniel Toal, University of Limerick
Edin Omerdic, University of Limerick
Gerard Dooly, University of Limerick

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Enrico Dallago, University of Pavia
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Piero Malcovati, University of Pavia
Marco Marchesi, University of Pavia
Giuseppe Venchi, University of Pavia

A Method of Mother Wavelet Function Learning for DWT-Based Analysis Using EEG Signals1905

Won-Seok Kang, Daegu Gyeongbuk Institute of Science & Technology
Kookrae Cho, Daegu Gyeongbuk Institute of Science & Technology
Seung-Hyun Lee, Daegu Gyeongbuk Institute of Science & Technology

4:00 PM - 5:30 PM Late News Bio/Chem Sensors & Systems

Room: *Concert Hall*

Chairs: *Pietro Siciliano, CNR IMM*
Anna Grazia Mignani, CNR IFAC

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Hamza Shakeel, Virginia Polytechnic Institute and State University
Masoud Agah, Virginia Polytechnic Institute and State University

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Tim Krijger, Delft University of Technology

Makoto Kaneko, Osaka University, Graduate School of Engineering

**DNA Hybridization Detection Based on an Organic Charge Modulated
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Monia Demelas, University of Cagliari

Stefano Lai, University of Cagliari

Massimo Barbaro, University of Cagliari

Annalisa Bonfiglio, University of Cagliari

Steering Wheel Photonic Crystal Fiber for Monoclonal Antibody Detection1921

Emily Battinelli, Villanova University

Francis Anuszewski, Villanova University

Mark Reimlinger, Villanova University

William Kelly, Villanova University

Rosalind Wynne, Villanova University

**Unconstrained Pulse Pressure Sensing for Health Management
Based on a Hetero-Core Fiber Optic Sensor1925**

Michiko Nishiyama, Japan Aerospace Exploration Agency

Kazuhiro Watanabe, Soka university

**Sensing Mechanism in Receptor-Modified Organic Field Effect
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Davianne Duarte, Microelectronics Research Center, The University of Texas at Austin

Bradley Holliday, The University of Texas at Austin

Ananth Dodabalapur, Microelectronics Research Center, The University of Texas at Austin

4:00 PM - 5:30 PM Image Sensors

Room: Jean Monet

Chairs: Shao-Ying Huang, The University of Hong Kong

Gary Pickrell, Virginia Polytechnic Institute & State University

A Second Generation 3D Integrated Feature-Extracting Image Sensor1933

Xiangyu Zhang, Nanyang Technological University

Shoushun Chen, Nanyang Technological University

Eugenio Culurciello, Yale University

Integrated Filter-Less BiCMOS Sensor for RGB-LED Color Determination.....1937

Andreas Polzer, Vienna University of Technology

Wolfgang Gaberl, Vienna University of Technology

Milos Davidovic, Vienna University of Technology

Horst Zimmermann, Vienna University of Technology

A Two-Step Readout CMOS Image Sensor Active Pixel Architecture.....1941

Tsung-Hsun Tsai, VISOR Lab, York University

Richard Hornsey, VISOR Lab, York University

Optical Spectroscopy and Pattern Recognition Techniques for Discriminating and Classifying Scotch Whiskies1946

Anna Grazia Mignani, National Research Council, IFAC
Leonardo Ciaccheri, National Research Council, IFAC
A.A. Mencaglia, National Research Council, IFAC
Belén Gordillo, Universidad de Sevilla
Maria Lourdes Gonzalez-Miret, Universidad de Sevilla
Francisco Jose Heredia, Universidad de Sevilla
Brian Culshaw, University of Strathclyde

Novel Sensor Cell Design and Algorithm to Online Realize Stable and Cost Effective Optical Concentration Measurements at Fluctuating Light Source Situations1950

Martin Degner, Universität Rostock
Hartmut Ewald, Universität Rostock
Elfed Lewis, University of Limerick

All ALD TiO₂-Al₂O₃-TiO₂ Horizontal Slot Waveguides for Optical Sensing1954

A. Purniawan, Delft University of Technology
P. J. French, Delft University of Technology
Gregory Pandraud, Delft University of Technology
Yujian Huang, Delft University of Technology
P. M. Sarro, Delft University of Technology

4:00 PM - 5:30 PM

Capacitive Sensing Technologies

Room: John Holland

Chairs: Qing-An Huang, Southeast University, Nanjing
Luc Hebrard, InESS Strasbourg

An 8-12GHz Capacitive Power Sensor Based on MEMS Cantilever Beam1958

Zhenxiang Yi, Southeast University
Xiaoping Liao, Southeast University
Zheng Zhu, Key Laboratory of MEMS of Ministry of Education, Southeast University

Capacitively Coupled Atmospheric RF Microplasma DevicesN/A

Wen Yuan, University of Utah
Massood Tabib-Azar, University of Utah

Capacitive Level Sensor for Layered Fillings in Tanks and Vessels Based on Metamaterial Transmission Line1966

Martin Schüßler, Technische Universität Darmstadt
Margarita Puentes, Technische Universität Darmstadt
Christian Mandel, Technische Universität Darmstadt
Rolf Jakoby, Technische Universität Darmstadt

An Efficient Method for Modeling Planar Interdigitated Electrodes for Capacitive Sensing1970

Stefan Schaur, Johannes Kepler Universität
Bernhard Jakoby, Johannes Kepler Universität

A System Level Modeling for Distributed RF MEMS Devices Considering Thermally Induced Packaging Effect.....1974

*Cheng Zhao, Southeast University
Jing Song, Southeast University
Qing-An Huang, Southeast University*

A Surface-Micromachined MEMS Acoustic Sensor with Back-Plate Anchors of 100 μm Depth1978

*Jaewoo Lee, Electronics and Telecommunications Research Institute
Chang-Han Je, Electronics and Telecommunications Research Institute
Ju-Hyun Jeon, Electronics and Telecommunications Research Institute
Woo-Seok Yang, Electronics and Telecommunications Research Institute
Jongdae Kim, Electronics and Telecommunications Research Institute*

4:00 PM - 5:30 PM Sensor Network Technologies II

Room: *Charles Parsons*

Chairs: *Gijs Krijnen, University of Twente
Marco Grassi, University of Pavia*

Low Power Wireless Sensor Network for Building Monitoring.....N/A

*Tom Torfs, IMEC
Tom Sterken, IMEC
Steven Brebels, IMEC
Juan Santana, IMEC Netherlands / Holst Centre
Richard van Den Hoven, IMEC Netherlands / Holst Centre
Chris Van Hoof, IMEC
Nicolas Saillen, Thermo-Fisher Scientific
Nicolas Bertsch, MEMSCAP
Davide Trapani, Università degli Studi di Trento
Daniele Zonta, Università degli Studi di Trento
Paris Marmaras, Netscope
Matthaios Bimpas, ICCS*

Development of Prototype Sensor Nodes with High-Accuracy Ranging for Localization on Wireless Sensor Networks1986

*Jun-ya Takayama, Tokyo Institute of Technology
Hong Phuoc Thanh, Tokyo Institute of Technology
Sang-il Ko, Tokyo Institute of Technology
Shinji Ohyama, Tokyo Institute of Technology*

Antenna Tuning for Wearable Wireless Sensors1990

*John Buckley, Tyndall National Institute
Brendan O'Flynn, Clarity Centre for Sensor Web Technologies / Tyndall National Institute
Peter Haigh, Tyndall National Institute
Cian O'Mathuna, Clarity Centre for Sensor Web Technologies / Tyndall National Institute
Kevin McCarthy, University College Cork*

Extended-Range Wireless Sensor Networks with Enhanced IEEE 802.15.4 CSMA/CA.....1994

*Chih-Kuang Lin, Bell Labs Ireland, Alcatel-Lucent
Titos Kokkinos, Bell Labs Ireland, Alcatel-Lucent
Francis Mullany, Bell Labs Ireland, Alcatel-Lucent*

Integrated Centralized Electric Current Monitoring System Using Wirelessly Enabled Non-Intrusive AC Current Sensors	1998
<i>Qiliang Xu, University of California, Berkeley</i> <i>Michael Seidel, University of California, Berkeley</i> <i>Igor Paprotny, University of California, Berkeley</i> <i>Richard White, University of California, Berkeley</i> <i>Paul Wright, University of California, Berkeley</i>	
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<i>Diego Antolin, Universidad de Zaragoza</i> <i>Alberto Bayo, Universidad de Zaragoza</i> <i>Nicolás Medrano, Universidad de Zaragoza</i> <i>Belén Calvo, Universidad de Zaragoza</i> <i>Santiago Celma, Universidad de Zaragoza</i>	
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Room: FB028	
Chairs: <i>Lei Wei, Massachusetts Institute of Technology</i> <i>Colin Fitzpatrick, University of Limerick</i>	
Remotely-Interrogated Three-Axis Fiber Laser Magnetometer	2006
<i>Geoffrey Cranch, Naval Research Laboratory</i> <i>Gary Miller, Naval Research Laboratory</i> <i>Charles Askins, Naval Research Laboratory</i> <i>Clay Kirkendall, Naval Research Laboratory</i> <i>Robert Bartolo, Sotera Defense Solutions</i>	
A Novel Microfabricated High Precision Vector Magnetometer	2010
<i>Dirk Ettelt, CEA-Léti</i> <i>Guillaume Dodane, CEA-Léti</i> <i>Marcel Audoin, CEA-Léti</i> <i>Arnaud Walther, CEA-Léti</i> <i>Guillaume Jourdan, CEA-Léti</i> <i>Patrice Rey, CEA-Léti</i> <i>Philippe Robert, CEA-Léti</i> <i>Jérôme Delamare, CNRS/G2ELab</i>	
Research on the Phase of an Inline Coupling RF MEMS Power Sensor	2014
<i>Zhiqiang Zhang, Key Laboratory of MEMS of Ministry of Education, Southeast University</i> <i>Xiao Ping Liao, Southeast University</i>	
Ironless Position Sensor with Intrinsic Immunity to External Magnetic Fields	2018
<i>Alessandro Masi, European Organization for Nuclear Research</i> <i>Alessandro Danisi, European Organization for Nuclear Research</i> <i>Roberto Losito, European Organization for Nuclear Research</i> <i>Yves Perriard, École Polytechnique Fédérale de Lausanne</i>	

Miniaturized High Resolution Synthetic Aperture Radar at 94 GHz for Microlite Aircraft or UAV	2022
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Winfried Johannes, Fraunhofer Institute for High Frequency Physics and Radar Techniques
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 Stephan Stanko, Fraunhofer Institute for High Frequency Physics and Radar Techniques
 Rainer Sommer, Fraunhofer Institute for High Frequency Physics and Radar Techniques
 Alfred Wahlen, Fraunhofer Institute for High Frequency Physics and Radar Techniques
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 Christian Wagner, Fraunhofer Institute for High Frequency Physics and Radar Techniques
 Michael Schlechtweg, Fraunhofer Institute for Applied Solid State Physics
 Axel Tessmann, Fraunhofer Institute for Applied Solid State Physics

Detection Coil Independent Frequency Domain Measurements for an Inductively Coupled Resonant Magnetoelastic Bending Sensor2026

Sebastian Sauer, Technische Universität Dresden
Uwe Marschner, Technische Universität Dresden
Wolf-Joachim Fischer, Technische Universität Dresden

4:00 PM - 5:30 PM **Optical Sensors & Systems III**

Room: FG042

Chairs: Olga Conde, *Universidad de Cantabria*
Andrea Cusano, *Università degli Studi del Sannio*

A Miniature Optical Humidity Sensor.....2030

Jinesh Mathew, Dublin Institute of Technology
Yuliya Semenova, Dublin Institute of Technology
Gerald Farrell, Dublin Institute of Technology

1-D Polymeric Photonic Crystal Humido-Chromic Sensor.....2034

Maria-Isidora Georgaki, NCSR Demokritos
Petros Oikonomou, NCSR Demokritos
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Panagiotis Argitis, NCSR Demokritos
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Jakub Rysz, Jagiellonian University
Andrzej Budkowski, Jagiellonian University
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Nikolaos Moustakas, NCSR Demokritos
Athanasios Botsialas, ThetaMetrisis S.A.

Dual Excitation Fluorescence-Based Sensors for pH and Dissolved Carbon Dioxide Monitoring.....2038

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Colette McDonagh, Dublin City University

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Albert Dorneich, Balluff GmbH

Markus Fritton, Balluff GmbH

Josef Büchler, MicSenS

Thomas Holzschuh, MicSenS

Optimized Acoustic Wave Detector Based on Long Period Grating2046

Jacques-Olivier Gaudron, City University London

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Tong Sun, City University London

Ken Grattan, City University London

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Richard Fair, Duke University

Nan Jokerst, Duke University

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