

EUROSENSORS 2018 Programme - Tuesday, 11 September 2018

9:00-9:45	Plenary Talk <i>Quantum Computer - a New Technology for the Information Age</i> Rainer BLATT <i>Information about the next EUROSENSORS Conference</i>			
9:45-9:50	ROOM 15.02			
	Advanced Functional Materials for Sensing and Actuating Contributed Talk - ID 7112	ROOM 15.03	ROOM 15.04	ROOM 15.05
10:00-10:20	Steffi KRAUSE <i>Photoelectrochemical Imaging Using Carbon Dots (CDs) Derived from Chitosan</i> Contributed Talk - ID 7381	Chemical Sensors and Sensors for Food Industry Contributed Talk - ID 7165 Khalifa AGUIR <i>How the Chamber Design Can Affect Gas Sensor Responses</i> Contributed Talk - ID 7289 Omar KASSEM <i>Fabrication of SnO₂ Flexible Sensor by Inkjet Printing Technology</i>	Bio(medical) Sensors, Devices and Microfluids Contributed Talk - ID 7047 Kean AW <i>A Portable & Disposable Ultra-Low Velocity Flow Sensor from Bioinspired Hair-Like Microstructures</i> Contributed Talk - ID 7514 Divya BALAKRISHNAN <i>Redox Active Self-Assembled Monolayer Functioning As a pH Actuator</i>	Piezoelectric, Dielectric, Capacitive and Magnetic Sensors Contributed Talk - ID 7051 Maxime DUQUESNOY <i>Quartz Enhanced Photoacoustic Spectroscopy Based Gas Sensor with a Custom Quartz Tuning Fork</i> Contributed Talk - ID 7446 Eurico E. MOREIRA <i>Frequency Modulated Magnetometer Using a Double-Ended Tuning Fork Resonator</i>
10:20-10:40	Thorsten GRAUNKE <i>Towards an Empirical Model for the Prediction of the Selectivity of Polymer Membranes</i>	Omar KASSEM <i>Fabrication of SnO₂ Flexible Sensor by Inkjet Printing Technology</i>	Divya BALAKRISHNAN <i>Redox Active Self-Assembled Monolayer Functioning As a pH Actuator</i>	Eurico E. MOREIRA <i>Frequency Modulated Magnetometer Using a Double-Ended Tuning Fork Resonator</i>
10:40-11:10	Coffee break			
	Advanced Functional Materials for Sensing and Actuating Contributed Talk - ID 7045	Chemical Sensors and Sensors for Food Industry Contributed Talk - ID 7235	Bio(medical) Sensors, Devices and Microfluids Contributed Talk - ID 7058	Piezoelectric, Dielectric, Capacitive and Magnetic Sensors Contributed Talk - ID 7236
11:10-11:30	Yuxin LIU <i>Highly Confined Love Waves Modes by Defects States in a Phononic Crystal Based on Holey-SiO₂/ST-Cut Quartz Structure</i> Contributed Talk - ID 7480	Arjen BOERSMA <i>Multiparameter Sensor Array for Gas Composition Monitoring</i> Contributed Talk - ID 7222	Laura FOLKERTSMA <i>Reference-Electrode Free pH Sensing Using Impedance Spectroscopy</i> Contributed Talk - ID 7114	Florian PATOCKA <i>Novel MEMS Sensor for Detecting Magnetic Particles in Liquids</i> Contributed Talk - ID 7153
11:30-11:50	Jonas GROTEN <i>Screen Printed PVDF-TrFE-co-PbTiO₃/BNT Nanocomposite for Selective Piezo- or Pyroelectric Sensing</i> Contributed Talk - ID 7469	Yuxin XING <i>Thermal Modulation of a High-Bandwidth Gas Sensor Array in Real-Time for Application on a Mobile Robot</i> Contributed Talk - ID 7466	Pierre-Yves JOUBERT <i>Reference-Electrode Free pH Sensing Using Impedance Spectroscopy</i> Contributed Talk - ID 7114	Samuel HUBER <i>A Gradiometric Magnetic Sensor System for Stray-Field-Immune Rotary Position Sensing in Harsh Environment</i> Contributed Talk - ID 7175
11:50-12:10	Ajay Giri Prakash KOTTAPALLI <i>MEMS Biomimetic Superficial and Canal Neuromasts for Flow Sensing</i> Contributed Talk - ID 7232	Corrado DI NATALE <i>Development of Gas Sensor Array Based on Phthalocyanines Functionalized TiO₂/ZnO Heterojunction Thin Films</i> Contributed Talk - ID 7402	Emile MARTINIC <i>Porous Polymer Based Flexible Pressure Sensors for Medical Applications</i> Contributed Talk - ID 7463	Michael ORTNER <i>Modeling Planar Fluxgate Structures</i> Contributed Talk - ID 7374
12:10-12:30	Marco DELUCA <i>Influence of Crystalline Texture on the Piezoelectric Properties of High-Performance Ceramic Actuators</i>	Marco ABBATANGELO <i>Array of MOX Nanowires Gas Sensors for Wastewater Management</i>	Andreia DOS SANTOS <i>E-Skin Pressure Sensors Made by Laser Engraved PDMS Molds</i>	Julia KÖRNER <i>Effective Sensor Properties of a Novel co-Resonant Cantilever Sensor</i>
12:30-14:00	Lunch break			
	Photonic Sensors and Quantum Sensors Invited Talk - ID 7575	System Integration and Packaging, Reliability, Modelling and Simulation Invited Talk - ID 7587	Bio(medical) Sensors, Devices and Microfluids Invited Talk - ID 7576	Piezoelectric, Dielectric, Capacitive and Magnetic Sensors Invited Talk - ID 7583
14:00-14:30	Jean-Michel GÉRARD <i>Advanced Superconducting Nanowire Single Photon Detectors for Photonic Quantum Technologies</i> Contributed Talk - ID 7071	Andy MILLER <i>3D Heterogeneous Integration - Enabling Functionality Improvements Through Advanced Packaging</i> Contributed Talk - ID 7150	Jens DUCRÉE <i>Efficient Development of Microfluidic Solutions for Bioanalytical 'Point-of-Use' Testing Towards High-Technology-Readiness Levels - a Platform-Based Design-for-Manufacture Approach</i> Contributed Talk - ID 7482	Werner MAGNES <i>Development of Space Magnetometers in Austria</i> Chemical Sensors and Sensors for Food Industry Contributed Talk - ID 7164
14:30-14:50	Reyhaneh JANNESARI <i>Narrow-Band Thermal Photonic Crystal Emitter for Mid-Infrared Applications</i> Contributed Talk - ID 7067	Philip SCHMITT <i>A Micromechanical Binary Counter with MEMS-Based Digital-to-Analog Converter</i> Contributed Talk - ID 7440	Martin SMOLKA <i>High Throughput Roll-to-Roll Production of Microfluidic Chips</i> Contributed Talk - ID 7406	Eduardo BRAS <i>Development of a Point-of-Care Platform for Plant Health Assessments: a Microfluidic Approach</i> Contributed Talk - ID 7398
14:50-15:10	Juan WANG <i>Microfluidic Construction of Hierarchically Composite Superballs for Sensing Application</i> Contributed Talk - ID 7318	Gabriele BOSETTI <i>Reliable Compact Models for the Investigation of Acoustic High-Frequency Effects in MEMS Transducers</i> Contributed Talk - ID 7327	Martin OELLERS <i>Novel Design of Additively Manufactured Micromixer in a Microchannel Comprising Mounting and Sealing Elements</i> Contributed Talk - ID 7238	Maria MOBHAMMER <i>Flow Injection Analysis with Microdialysis Probes Enable Minimally Invasive and Dynamic H₂O₂ Measurements</i> Contributed Talk - ID 7020
15:10-15:30	Zhi-Mei Qi <i>Gold-Silver Alloy Film Based Colorful SPR Imaging Sensor with High Sensitivity for Quantitative Chemical and Biological Detection</i> Contributed Talk - ID 7273	Henry SCHMIDT <i>Reduced Order Component & System Level Modelling for Fluid-Solid Interactions in Complex MEMS Devices</i> Contributed Talk - ID 7065	Senol MUTLU <i>Integration of Paper Based Electro-Osmotic Pumps to Continuous Microfluidic Channels</i>	Esther TANUMIHARDJA <i>Ruthenium Oxide pH Sensing for Organs-on-Chip Studies</i> Contributed Talk - ID 7074
15:30-15:50	Jan GÜLINC <i>InGaN/GaN nanoLED Arrays As a Novel Illumination Source for Biomedical Imaging and Sensing Applications</i>	Mourad ELSOBKY <i>Ultra-Thin Sensor Systems Integrating Silicon Chips with on-Foil Passive and Active Components</i>		Inci BOEHME <i>Understanding the Sensing Mechanism of Rh2O3 Loaded In2O3</i>
15:50-16:30	Coffee break			
	Photonic Sensors and Quantum Sensors Contributed Talk - ID 7140	System Integration and Packaging, Reliability, Modelling and Simulation Contributed Talk - ID 7471	Micro- and Nanofabrication Technologies Contributed Talk - ID 7174	Chemical Sensors and Sensors for Food Industry Contributed Talk - ID 7263
16:30 - 16:50	Christian RANACHER <i>Numerical Investigations of Infrared Slot Waveguides for Gas Sensing</i> Contributed Talk - ID 7569	Michael HAUB <i>Novel Design of an Extremely Miniaturized Accelerometer Based on Quantum Tunnelling Effect</i> Contributed Talk - ID 7052	J. Daniel PRADES <i>Efficient Self-Heating in Nanowire Sensors: Prospects for Very Low Power Devices</i> Contributed Talk - ID 7531	Tony GRANZ <i>UV-LED Photo Activated Room Temperature NO₂ Sensors Based on Nanostructured ZnO/AlN Thin Films</i> Contributed Talk - ID 7170
16:50-17:10	Vedran BUDINSKI <i>Miniature Twist/Rotation Fabry Perot Sensor Based on a Four-Core Fiber</i> Light Sensors and Optical MEMS/NEMS Contributed Talk - ID 7093	Daniil ANISIMOV <i>Intellectual Thermoconductometric Unit Based on Aerosol Printed Ceramic MEMS Sensor for the Measurement of Natural Gas Composition</i> Contributed Talk - ID 7134	Andrey KRAVCHENKO <i>Silicon-on-Nothing Micro Pirani-Gauge for Interior-Pressure Measurement</i> Contributed Talk - ID 7241	Andrey KALINICHEV <i>Ion-Selective Optical Sensors: a New Look at Well-Established Techniques of Signal Acquisition</i> Contributed Talk - ID 7146
17:10-17:30	Ivan RYGER <i>MEMS Non-Absorbing Electromagnetic Power Sensor Employing the Effect of Radiation Pressure</i> Contributed Talk - ID 7328	Cécile GHOUILA-HOURI <i>Robust Calorimetric Micro-Sensor for Aerodynamic Applications and Flow Control</i>	Nikolas GAIO <i>Versatile and Automated 3D Polydimethylsiloxane (PDMS) Patterning for Large-Scale Fabrication of Organ-on-Chips (OOC)</i> Contributed Talk - ID 7407	Laura ENGEL <i>Calorimetric Detection of Hydrogen Sulphide in Ambient Air</i> Contributed Talk - ID 7288
17:30-17:50	Cyrus SHAFAI <i>A 3-Degree-of-Freedom MEMS Mirror with Controllable Static and Dynamic Motion for Beam Steering</i> Contributed Talk - ID 7358		Levar GOOSSEN <i>Ultra-Thin Integrated ALD Alumina Electron-Transparent Windows for TEM Nanoreactor Applications</i> Contributed Talk - ID 7278	Ismael BENITO-ALTAMIRANO <i>Machine-Readable Pattern for Calorimetric Sensor Interrogation</i>
17:50-18:10	Mahmoud EL-SAFOURY <i>Resonant Photoacoustic Gas Monitoring of Combustion Emissions</i>		Steffen BORNEMANN <i>Structural Modifications in Free-Standing InGaN/GaN LEDs After Femtosecond Laser Lift-Off</i>	
19:30-22:00	Conference Dinner			