

EUROSENSORS 2018 Programme - Wednesday, 12 September 2018

Plenary Talk				
9:00-9:45	Ideas for Specific Low-Power and Cost-Effective Chemical Sensors J. Daniel PRADES			
	ROOM 15.02	ROOM 15.03	ROOM 15.04	ROOM 15.05
	Advanced Functional Materials for Sensing and Actuating	Chemical Sensors and Sensors for Food Industry	Embedded Systems and Signal Processing	Automotive Sensors and Sensors for (Aero)space
	Contributed Talk - ID 7461	Contributed Talk - ID 7297	Contributed Talk - ID 7256	Contributed Talk - ID 7038
10:00-10:20	Peter LIEBERZEIT <i>Comparing aptamers and Molecularly Imprinted Polymers As Receptors for Rapid Virus Sensing with QCM</i>	Wojciech MAJSTRZYK <i>Force Spectroscopy with Quantitative on-Cantilever Force Control</i>	Miklós SZAPPANOS <i>Energy Harvesting Powered Wireless Vibration Analyser</i>	Simon GRALL <i>Screen-Printed Microcantilevers for Environmental Sensing</i>
10:20-10:40	Contributed Talk - ID 7166	Contributed Talk - ID 7510	Contributed Talk - ID 7224	Contributed Talk - ID 7066
	Hendrik SCHLICKE <i>Cross-Linked Nanoparticle Membranes for Microelectromechanical Chemical Sensors and Pressure Sensors</i>	Benjamin LANG <i>A Resonant Photoacoustic Cell for High Flow Rate Gas Concentration Measurement</i>	Luca FRANCIOSO <i>Sensorized Insole for Diabetic Foot Monitoring</i>	Maik BEER <i>CMOS SPAD-Based Sensor for Automotive Lidar Applications</i>
10:40-11:10	Coffee break			
	Light Sensors and Optical MEMS/NEMS	Bio(medical) Sensors, Devices and Microfluids	Energy Harvesting	Automotive Sensors and Sensors for (Aero)space
11:10-11:40	Invited Talk - ID 7574	Invited Talk - ID 7581	Invited Talk - ID 7582	Invited Talk - ID 7580
	Denis DONLAGIC <i>Miniature, All-Silica, Fiber Optics Sensors Produced by Selective Etching of Phosphorus Doped Silica Glass</i>	Roisin M. OWENS <i>Organic Electronic Devices As Multi-Modal Transducers of Cellular Activity</i>	Susan TROLIER-MC KINSTRY <i>Piezoelectric MEMS Energy Harvesters for Powering Sensor Systems</i>	Ralf MOOS <i>Sensing Catalytic Converters and Filters at Work Using Radio Frequencies</i>
11:40-12:00	Contributed Talk - ID 7070	Contributed Talk - ID 7348	Contributed Talk - ID 7317	Contributed Talk - ID 7245
	Els VAN BESIEEN <i>Fabrication of a CMOS-Based Imaging Chip with Monolithically Integrated RGB and NIR Filters</i>	Catarina CANEIRA <i>Regenerable Bead-Based Microfluidic Device with Integrated Thin-Film Photodiodes for Real Time Monitoring of DNA Detection</i>	Seyedfakhreddin NABAVI <i>Design and Optimization of Low Resonant-Frequency Piezoelectric MEMS Energy Harvester Based on Artificial Intelligence</i>	Bernhard FISCHBACHER <i>Tomographic Measurement of Ammonia Distribution on a Hot Gas Test Bench</i>
12:00-12:20	Contributed Talk - ID 7275	Contributed Talk - ID 7154	Contributed Talk - ID 7570	Contributed Talk - ID 7506
	Aapo VARPULA <i>Silicon Based Nano-Thermoelectric Bolometers for Infrared Detection</i>	Jorge Enrique PRADA ROJAS <i>Design and Manufacturing of a Disposable, Cyclo-Olefin Copolymer, Microfluidic Biosensor</i>	Vincenzo MARLETTA <i>Investigation of a Nonlinear Vibrational Energy Harvester in the Stochastic Resonance Regime</i>	Mike ANDERSSON <i>On the Applicability of Silicon Carbide Based Field Effect Sensors in the Control of Exhaust/Flue Gas After-Treatment Systems</i>
12:20-12:40	Contributed Talk - ID 7044	Contributed Talk - ID 7246	Contributed Talk - ID 7027	Contributed Talk - ID 7087
	Lukas RAUTER <i>Characterization of a Vertical-Cavity Enhanced Detector for Narrowband Detection in the Mid-Infrared</i>	Gregor SCHOLZ <i>Continuous Live-Cell Culture Monitoring by Compact Lensless LED Microscopes</i>	Ulises TRONCO JURADO <i>Water-Dielectric Single Electrode Mode Triboelectric Nanogenerators for Ocean Wave Impact Energy Harvesting</i>	Nicolas DUPRÉ <i>Experimental Demonstration of Stray-Field-Immunity Beyond 4 Ka/M for an Automotive-Grade Rotary Position Sensor</i>
12:40-14:00	Lunch break			
	Embedded Systems and Signal Processing	Bio(medical) Sensors, Devices and Microfluids	Energy Harvesting	Smart Systems and Wireless Sensor Networks
14:00-14:20	Contributed Talk - ID 7404	Contributed Talk - ID 7533	Contributed Talk - ID 7113	Contributed Talk - ID 7371
	Oriol GONZALEZ <i>A Novel Modular eNose System Based on Commercial MOX Sensors to Detect Low Concentrations of VOCs for Breath Gas Analysis</i>	Paddy FRENCH <i>Surface functionalization of SU-8 Vertical Waveguide for Bio-Medical Sensing: Bacteria Diagnosis</i>	Kirsi TAPPURA <i>A Thin-Film Thermoelectric Generator for Large-Area Applications</i>	Marco CRESCENTINI <i>Ultra-Low Power CMOS Readout for Resonant MEMS Strain Sensors</i>
14:20-14:40	Contributed Talk - ID 7487	Contributed Talk - ID 7414	Micro- and Nanofabrication Technologies	Contributed Talk - ID 7219
	Romana BOIGER <i>Exploring Temperature-Modulated Operation Mode of Metal Oxide Gas Sensors for Robust Signal Processing</i>	Julia KÖRNER <i>A Sensor Platform for Smart Hydrogels in Biomedical Applications</i>	Contributed Talk - ID 7262 Jiushuai XU <i>Area-Selective Growth of Aligned ZnO Nanorod Arrays for MEMS Device Applications</i>	Lisa-Marie FALLER <i>Artificial Landmarks Concept for Autonomous Vehicles Applied to a Magnetic Sensor System</i>
14:40-15:00	Contributed Talk - ID 7116		Contributed Talk - ID 7484	
	Alexey VASILIEV <i>How to Detect Selectively Hydrogen and Hydrogen Containing Gases with Metal Oxide Gas Sensor Operating in Non-Stationary Thermal Regime?</i>		Tony GRANZ <i>Nanofabrication of SOI-Based Photonic Waveguide Resonators for Gravimetric Molecule Detection</i>	
15:00-15:30	Closing Ceremony			