

**EUROSENSORS 2018 - Tentative Program**

**EUROSENSORS Welcome Reception - Sunday 9 September 2018**

18:00-20:30 Welcome Reception - University of Graz – AULA, Universitätsplatz 3 (1st floor), 8010 Graz

**EUROSENSORS Program - Monday 10 September 2018**

9:00-9:30 Opening Ceremony

Plenary Talk  
 9:30-10:15 From Maxwell's Displacement Current to Nanogenerator Driven Self-Powered Systems and Blue Energy  
**Zhong Lin WANG**

Plenary Talk  
 10:15-11:00 Sense and Sensibility in Robots  
**Maria Chiara CARROZZA**

11:00-11:30 Coffee Break

ROOM 15.02	ROOM 15.03	ROOM 15.04	ROOM 15.05
<b>Actuators, MEMS and NEMS</b>	<b>Chemical Sensors and Sensors for Food Industry</b>	<b>Bio(medical) Sensors, Devices and Microfluidics</b>	<b>Piezoelectric, Dielectric, Capacitive and Magnetic Sensors</b>
Contributed Talk - ID 7151	Contributed Talk - ID 7171	Contributed Talk - ID 7503	Contributed Talk - ID 7296
<b>Yutaka NONOMURA</b> <i>Heat Flow Measurement by a Force and Thermal Sensor Stick for Robots with a Nerve-Net LSI Chip</i>	<b>Anna STAERZ</b> <i>The Temperature Dependent Interaction of WO3 Sensors with Humidity</i>	<b>Eugenio MARTINELLI</b> <i>More Than Random Walk: Cell Motility Based Sensor on to Evaluate the Drug Efficacy</i>	<b>Aleksi HÄNNINEN</b> <i>An Inductively Coupled Biodegradable Capacitive Pressure Sensor</i>
Contributed Talk - ID 7248	Contributed Talk - ID 7242	Contributed Talk - ID 7335	Contributed Talk - ID 7310
<b>Richard HOPPER</b> <i>A CMOS-Based 8 x 8 Element Thermopile Array on a Single SiO2 Membrane</i>	<b>Eduard LLOBET</b> <i>Gas Sensing Properties of Carbon Nanotubes Decorated with Iridium Oxide nanoparticles</i>	<b>Salvatore SURDO</b> <i>3D-Printed, Pocket-Size Diffusion Cells for Skin Permeation Investigation</i>	<b>Ozan ERTOP</b> <i>Displacement Sensor with Inherent Read-Out Circuit Using Water Gated Field Effect Transistor (WG-FET)</i>
Contributed Talk - ID 7094	Contributed Talk - ID 7352	Contributed Talk - ID 7302	Contributed Talk - ID 7452
<b>Daniel KOTSCHE</b> <i>Micro Hollow-Cathode Discharges As Acoustic Source</i>	<b>Gullem DOMÈNECH-GIL</b> <i>Localized and in-situ Integration of Different Nanowire Materials for Electronics Nose Applications</i>	<b>Tanzir AHMED</b> <i>Fast Formation of Lipid Bilayer Membranes for Simultaneous Analysis of Molecular Transport Using parylene Coated Chips</i>	<b>Alessandro NASTRO</b> <i>A Current-Mode Transimpedance Amplifier for Capacitive Sensors</i>
12:30-14:00 Lunch Break			
<b>Actuators, MEMS and NEMS</b>	<b>Chemical Sensors and Sensors for Food Industry</b>	<b>Bio(medical) Sensors, Devices and Microfluidics</b>	<b>Piezoelectric, Dielectric, Capacitive and Magnetic Sensors</b>
Contributed Talk - ID 7203	Contributed Talk - ID 7191	Contributed Talk - ID 7348	Contributed Talk - ID 7330
<b>Lalit KUMAR</b> <i>Clamping and Q-Factor Improvement in a Carbon Nanotube Resonator</i>	<b>Jiushuai XU</b> <i>Silicon Microcantilevers with ZnO Nanorods/Chitosan-SAMs Hybrids on ist Back Surface for Humidity Sensing</i>	<b>Catarina CANEIRA</b> <i>Regenerable Bead-Based Microfluidic Device with Integrated Thin-Film Photodiodes for Real Time Monitoring of DANN Detection</i>	<b>Aleksandr OSEEV</b> <i>Integration of microresonant Sensor into a Microfluidic Platform for the Real Time Analysis of Platelets-Collagen Interaction in Flow Condition</i>
Contributed Talk - ID 7277	Contributed Talk - ID 7311	Contributed Talk - ID 7154	Contributed Talk - ID 7284
<b>Daniel PLATZ</b> <i>Modelling Fluid Damping of Non-Conventional Vibration Modes in MEMS Resonators</i>	<b>Anmona Shabnam PRANTI</b> <i>Catalytic Micro Gas Sensor with Excellent Homogeneous Temperature Distribution and Low Power Consumption for Long-Term Stable Operation</i>	<b>Jorge Enrique PRADA ROJAS</b> <i>Design and Manufacturing of a Disposable, Cyclo-Olefin Copolymer, Microfluidic Biosensor</i>	<b>Aurelien MAZZAMURRO</b> <i>Highly Sensitive Surface Acoustic Wave Magnetic Field Sensor Using Multilayered TbCo2/FeCo Thin Film</i>
Contributed Talk - ID 7423	Contributed Talk - ID 7492	Contributed Talk - ID 7246	Contributed Talk - ID 7376
<b>Carlo TRIGONA</b> <i>Hybrid Micro Electro Mechanical Sensor Based on Graphene Oxide/Polyvinyl Alcohol for Humidity Measurements</i>	<b>Manohar Prasad BHANDARI</b> <i>Discrimination of Quality and Geographical Origin of Extra Virgin Olive Oil by S3 Device with Metal Oxides Gas Sensors</i>	<b>Gregor SCHOLZ</b> <i>Continuous Live-Cell Culture Monitoring by Compact Lensless Led Microscopes</i>	<b>Habiba BEGUM</b> <i>Self-Sustaining Square-Extensional Mode Resonator Oscillator for Mass Sensing in Liquid</i>
Contributed Talk - ID 7313	Contributed Talk - ID 7334	Contributed Talk - ID 7533	Contributed Talk - ID 7447
<b>Yu ZHOU</b> <i>Study of Electrostatic Actuator Voltage Reduction with a Tri-Electrode Actuator with Varying Pull-Down Voltage</i>	<b>Ambra FIORAVANTI</b> <i>Novel Methodology Based on Thick Film Gas Sensors to Monitor the Hydraulic Oil Ageing</i>	<b>Paddy FRENCH</b> <i>Surface Functionalization of SU-8 Vertical Waveguide for bio-medical Sensing; Bacteria Diagnosis</i>	<b>Vasco LIMA</b> <i>Low-Pressure Small MEMS Accelerometer Using Sigma-Delta Modulation</i>
<b>Advanced Functional Materials for Sensing and Actuating</b>			
Contributed Talk - ID 7384	Contributed Talk - ID 7369	Contributed Talk - ID 7425	Contributed Talk - ID 7186
<b>Maria Francesca SANTANGELO</b> <i>Epitaxial graphene Sensors Combined with 3D Printed Microfluidic Chip for Heavy Metals Detection</i>	<b>Olga CASALS</b> <i>An Led Platform for Micropower Gas Sensors</i>	<b>Aifan WICAKSONO</b> <i>FAIMS Analysis of Urinary Volatiles to Diagnose Coeliac Disease</i>	<b>Kaoru YAMASHITA</b> <i>Vibration Mode Investigation of Piezoelectric Ultrasonic Microsensors on Buckled Diaphragms</i>
Contributed Talk - ID 7173	Contributed Talk - ID 7304	Contributed Talk - ID 7414	Contributed Talk - ID 7460
<b>Alex MASON</b> <i>Screen Printed F-Em Sensors Based on Two Chelating-Polymers and a Metal Oxide to Detect Continuously Cu Ions in Surface Water</i>	<b>Larisa LVOVA</b> <i>Crown-Porphyrin Ligand for Optical Sensors Development</i>	<b>Julia KÖRNER</b> <i>A Sensor Platform for Smart Hydrogels in Biomedical Applications</i>	<b>Maria Assunta SIGNORE</b> <i>Fabrication of AlN-Based Flexible Piezoelectric Pressure Sensor to Integrate Into an Artificial Pancreas</i>
16:00-16:30 Coffee Break			
16:30-18:30 Poster Session			

**EUROSENSORS Program - Tuesday 11 September 2018**

Plenary Talk  
 9:00-9:45 Quantum Computer - a New Technology for the Information Age  
**Rainer BLATT**

ROOM 15.02	ROOM 15.03	ROOM 15.04	ROOM 15.05
<b>Advanced Functional Materials for Sensing and Actuating</b>	<b>Chemical Sensors and Sensors for Food Industry</b>	<b>Bio(medical) Sensors, Devices and Microfluidics</b>	<b>Piezoelectric, Dielectric, Capacitive and Magnetic Sensors</b>
Contributed Talk - ID 7112	Contributed Talk - ID 7165	Contributed Talk - ID 7047	Contributed Talk - ID 7051
<b>Dewen ZHANG</b> <i>Photoelectrochemical Imaging Using Carbon Dots (CDs) Derived from Chitosan</i>	<b>Marc BENDAHDAN</b> <i>How the Chamber Design Can Affect Gas Sensor Responses</i>	<b>Kean AW</b> <i>A Portable &amp; Disposable Ultra-Low Velocity Flow Sensor from Bioinspired Hair-Like Microstructures</i>	<b>Maxime DUQUESNOY</b> <i>Quartz Enhanced Photoacoustic Spectroscopy Based Gas Sensor with a Custom Quartz Tuning Fork</i>
Contributed Talk - ID 7381	Contributed Talk - ID 7289	Contributed Talk - ID 7514	Contributed Talk - ID 7444
<b>Thorsten GRAUNKE</b> <i>Towards an Empirical Model for the Prediction of the Selectivity of Polymer Membranes</i>	<b>Omar KASSEM</b> <i>Fabrication of SnO2 Flexible Sensor by Inkjet Printing Technology</i>	<b>Divya BALAKRISHNAN</b> <i>Redox Active Self-Assembled Monolayer Functioning As a Ph Actuator</i>	<b>Emiliano ZAMPETTI</b> <i>Use of QCMs with Modulation of Driving Force to Discriminate Particulates Size</i>
10:40-11:10 Coffee Break			
<b>Advanced Functional Materials for Sensing and Actuating</b>	<b>Chemical Sensors and Sensors for Food Industry</b>	<b>Bio(medical) Sensors, Devices and Microfluidics</b>	<b>Piezoelectric, Dielectric, Capacitive and Magnetic Sensors</b>
Contributed Talk - ID 7069	Contributed Talk - ID 7235	Contributed Talk - ID 7058	Contributed Talk - ID 7446
<b>Pierre LHERITIER</b> <i>Actuation Efficiency of Polyvinylidene Fluoride-Based co- and ter-Polymers</i>	<b>Arjen BOERSMA</b> <i>Multiparameter Sensor Array for Gas Composition Monitoring</i>	<b>Laura FOLKERTSMA</b> <i>Reference-Electrode Free Ph Sensing Using Impedance Spectroscopy</i>	<b>Eurico E. MOREIRA</b> <i>Frequency Modulated Magnetometer Using a Double-Ended Tuning Fork Resonator</i>
Contributed Talk - ID 7480	Contributed Talk - ID 7222	Contributed Talk - ID 7114	Contributed Talk - ID 7236
<b>Jonas GROTEN</b> <i>Screen Printed PVDF-TrFE-co-PbTiO3/BNT Nanocomposite for Selective Piezo- or Pyroelectric Sensing</i>	<b>Yuxin XING</b> <i>Thermal Modulation of a High-Bandwidth Gas Sensor Array in Real-Time for Application on a Mobile Robot</i>	<b>Pierre-Yves JOUBERT</b> <i>Bio-Impedance Non Contact Sensor for the Characterization of Burn Depth in Organic Tissues</i>	<b>Florian PATOCKA</b> <i>Novel MEMS Sensor for Detecting Magnetic Particles in Liquids</i>
Contributed Talk - ID 7469	Contributed Talk - ID 7466	Contributed Talk - ID 7204	Contributed Talk - ID 7153
<b>Ajay Giri Prakash KOTTAPALLI</b> <i>MEMS Biomimetic Superficial and Canal Neuromasts for Flow Sensing</i>	<b>Corrado DI NATALE</b> <i>Development of Gas Sensor Array Based on Phthalocyanines Functionalized TiO2/ZnO Heterojunction Thin Films</i>	<b>Pierre-Yves JOUBERT</b> <i>Porous Polymer Based Flexible Pressure Sensors for Medical Applications</i>	<b>Samuel HUBER</b> <i>A Gradiometric Magnetic Sensor System for Stray-Field-Immune Rotary Position Sensing in Harsh Environment</i>
Contributed Talk - ID 7232	Contributed Talk - ID 7402	Contributed Talk - ID 7463	Contributed Talk - ID 7175
<b>Marco DELUCA</b> <i>Influence of Crystalline Texture on the Piezoelectric Properties of High-Performance Ceramic Actuators</i>	<b>Marco ABBATANGELO</b> <i>Array of MOX Nanowires Gas Sensors for Wastewater Management</i>	<b>Rui IGREJA</b> <i>E-Skin Piezoresistive Pressure Sensors Made by Laser Engraved Molds</i>	<b>Michael ORTNER</b> <i>Modeling Planar Fluxgate Structures</i>
12:30-14:00 Lunch Break			
<b>Photonic Sensors and Quantum Sensors</b>	<b>Chemical Sensors and Sensors for Food Industry</b>	<b>Bio(medical) Sensors, Devices and Microfluidics</b>	<b>Piezoelectric, Dielectric, Capacitive and Magnetic Sensors</b>
Invited Talk - ID 7575	Invited Talk - ID 7581	Invited Talk - ID 7576	Invited Talk - ID 7583
<b>Jean-Michel GÉRARD</b> <i>Advanced Superconducting Nanowire Single Photon Detectors for Photonic Quantum Technologies</i>	<b>Roisin M. OWENS</b> <i>Organic Electronic Devices As Multi-Modal Transducers of Cellular Activity</i>	<b>Jens DUCRÉE</b> <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>	<b>Werner MAGNES</b> <i>Development of Space Magnetometers in Austria</i>
Contributed Talk - 7071	Contributed Talk - ID 7164	Contributed Talk - ID 7482	Contributed Talk - ID 7374
<b>Banafsheh ABASAH</b>	<b>Eduardo Joao SILVA BRÁS</b>	<b>Martin SMOLKA</b>	<b>Julia KÖRNER</b>

14:30-14:50	<i>Narrow-Band Thermal Photonic Crystal Emitter for Mid-Infrared Applications</i> Contributed Talk - ID 7067	<i>Development of a Point-of-Care Platform for Plant Health Assessments: a Microfluidic Approach</i> Contributed Talk - ID 7398	<i>High Throughput Roll-to-Roll Production of Microfluidic Chips</i> Contributed Talk - ID 7406	<i>Effective Sensor Properties of a Novel co-Resonant Cantilever Sensor</i> Contributed Talk - ID 7045
14:50-15:10	<b>Juan WANG</b> <i>Microfluidic Construction of Hierarchically Composite Superballs for Sensing Application</i> Contributed Talk - ID 7318	<b>Maria MOHAMMER</b> <i>Flow Injection Analysis with Microdialysis Probes Enable Minimally Invasive and Dynamic H2O2 Measurements</i> Contributed Talk - ID 7020	<b>Martin OELLERS</b> <i>Novel Design of Additively Manufactured Micromixer in a microchannel Comprising Mounting and Sealing Elements</i> Contributed Talk - ID 7390	<b>Yuxin LIU</b> <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 7381
15:10-15:30	<b>Zhi-Mei QI</b> <i>Gold-Silver Alloy Film Based Colorful SPR Imaging Sensor with High Sensitivity for Quantitative Chemical and Biological Detection</i> Contributed Talk - ID 7273	<b>Esther TANUMIHARDJA</b> <i>Ruthenium Oxide Ph Sensing for Organs-on-Chip Studies</i> Contributed Talk - ID 7074	<b>Spas KOLEV</b> <i>Microfluidic Paper-Based Analytical Device for Arsenite Determination</i> Contributed Talk - ID 7238	<b>Thorsten GRAUNKE</b> <i>A Gradiometric Magnetic Sensor System for Stray-Field-Immune Rotary Position Sensing in Harsh Environment</i> Contributed Talk - ID 7461
15:30-15:50	<b>Jan GÜLINK</b> <i>Ingan/GaN nanoLED Arrays As a Novel Illumination Source for Biomedical Imaging and Sensing Applications</i>	<b>Inci BOEHME</b> <i>Understanding the Sensing Mechanism of Rh2O3 Loaded In2O3</i>	<b>Kerem KAYA</b> <i>Integration of Paper Based Electro-Osmotic Pumps to Continuous Microfluidic Channels</i>	<b>Peter LIEBERZEIT</b> <i>Comparing aptamers and Molecularly Imprinted Polymers As Receptors for Rapid Virus Sensing with QCM</i>
15:50-16:30	<b>Coffee Break</b>			
	<b>Photonic Sensors and Quantum Sensors</b>	<b>Chemical Sensors and Sensors for Food Industry</b>	<b>Micro- and Nanofabrication Technologies</b>	<b>Advanced Functional Materials for Sensing and Actuating</b>
16:30 - 16:50	<b>Christian RANACHER</b> <i>Numerical Investigations of Infrared Slot Waveguides for Gas Sensing</i> Contributed Talk - ID 7140	<b>Tony GRANZ</b> <i>UV-Led Photo Activated Room Temperature No2 Sensors Based on Nanostructured ZnO/AIN Thin Films</i> Contributed Talk - ID 7263	<b>Cristian FABREGA</b> <i>Efficient Self-Heating in Nanowire Sensors: Prospects for Very-Low Power Devices</i> Contributed Talk - ID 7174	<b>Sebastian WERNER</b> <i>CuO-Loaded Porous SiO2 Fibres for H2S Detection</i> Contributed Talk - ID 7111
16:50-17:10	<b>Vedran BUDINSKI</b> <i>Miniature Twist/Rotation Fabry Perot Sensor Based on a Four-Core Fiber</i> Contributed Talk - ID 7093	<b>Andrey KALINICHEV</b> <i>Ion-Selective Optical Sensors: a New Look at Well-Established Techniques of Signal Acquisition</i> Contributed Talk - ID 7170	<b>Vladislav KHOMENKO</b> <i>Silicon-on-Nothing Micro Pirani-Gauge for Interior-Pressure Measurement</i> Contributed Talk - ID 7531	<b>Olivier MARGAT</b> <i>Silver Growth on Tungsten Oxide Nanowires for Nitrogen Dioxide Sensing at a Low Temperature</i> Contributed Talk - ID 7336
17:10-17:30	<b>Ivan RYGER</b> <i>MEMS Non-Absorbing Electromagnetic Power Sensor Employing the Effect of Radiation Pressure</i> Contributed Talk - ID 7328	<b>Laura ENGEL</b> <i>Colorimetric Detection of Hydrogen Sulphide in Ambient Air</i> Contributed Talk - ID 7146	<b>Tony GRANZ</b> <i>Nanofabrication of SOI-Based Photonic Waveguide Resonators for Gravimetric Molecule Detection</i> Contributed Talk - ID 7484	<b>Margus KODU</b> <i>Highly Sensitive NH3 Sensors Using CVD and Epitaxial graphene Functionalised with Vanadium(V) Oxide: a Comparative Study</i> Contributed Talk - ID 7212
17:30-17:50	<b>Elnaz AFSHARPOUR</b> <i>A 3-Degree-of-Freedom MEMS Mirror with Controllable Static and Dynamic Motion for Beam Steering</i> Contributed Talk - ID 7358	<b>Ismael BENITO-ALTMIRANO</b> <i>Machine-Readable Pattern for Colorimetric Sensor Interrogation</i> Contributed Talk - ID 7288	<b>Levar GOOSSEN</b> <i>Ultra-Thin Integrated ALD Alumina Electron-Transparent Windows for TEM Nanoreactor Applications</i> Contributed Talk - ID 7407	<b>Anton BUCHBERGER</b> <i>Fast Humidity Sensors for Harsh Environment</i> Contributed Talk - ID 7392
17:50-18:10	<b>Hans-Fridtjof PERNAU</b> <i>Resonant Photoacoustic Gas Monitoring of Combustion Emissions</i> Contributed Talk - ID 7358	<b>Hendrik SCHLICKE</b> <i>Cross-Linked Nanoparticle Membranes for Microelectromechanical Chemical Sensors and Pressure Sensors</i> Contributed Talk - ID 7166	<b>Steffen BORNEMANN</b> <i>Structural Modifications in Free-Standing Ingan/GaN LEDs After Femtosecond Laser Lift-Off</i> Contributed Talk - ID 7278	<b>Alessandro MARTUCCI</b> <i>Effect of Pt nanoparticles on the plasmonic and chemoresistive Gas Sensing Properties of ZnO:Ga Film</i> Contributed Talk - ID 7403
18:10-18:30				<b>Ying TU</b> <i>The Effect of Semiconductor Morphology on the Spatial Resolution of ZnO Based Light-Addressable Potentiometric Sensors</i> Contributed Talk - ID 7299

### EUROSENSORS Program - Wednesday 12 September 2018

9:00-9:45	Plenary Talk <i>Ideas for Specific, Low-Power and Cost-Effective Chemical Sensors</i> J. Daniel PRADES
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	ROOM 15.02	ROOM 15.03	ROOM 15.04	ROOM 15.05
	<b>System Integration and Packaging, Reliability, Modelling and Simulation</b>	<b>Chemical Sensors and Sensors for Food Industry</b>	<b>Embedded Systems and Signal Processing</b>	<b>Automotive Sensors and Sensors for (Aero)space</b>
10:00-10:20	<b>Alexey VASILIEV</b> <i>Intellectual thermoconductometric Unit Based on Aerosol Printed Ceramic MEMS Sensor for the Measurement of Natural Gas Composition</i> Contributed Talk ID 7052	<b>Wojciech MAJSTRZYK</b> <i>Force Spectroscopy with Quantitative on-Cantilever Force Control</i> Contributed Talk - ID 7297	<b>Miklós SZAPPANOS</b> <i>Energy Harvesting Powered Wireless Vibration Analyser</i> Contributed Talk - ID 7256	<b>Simon GRALL</b> <i>Screen-Printed Microcantilevers for Environmental Sensing</i> Contributed Talk - 7038
10:20-10:40	<b>Cécile GHOUILA-HOURI</b> <i>Robust Colorimetric Micro-Sensor for Aerodynamic Applications and Flow Control</i> Contributed Talk ID 7134	<b>Benjamin LANG</b> <i>A Resonant Photoacoustic Cell for High Flow Rate Gas Concentration Measurement</i> Contributed Talk - ID 7510	<b>Gabriele RESCIO</b> <i>Sensorized Insole for Diabetic Foot Monitoring</i> Contributed Talk - ID 7224	<b>Maik BEER</b> <i>CMOS SPAD-Based Sensor for Automotive Lidar Applications</i> Contributed Talk - ID 7066
10:40-11:10	<b>Coffee Break</b>			
	<b>System Integration and Packaging, Reliability, Modelling and Simulation</b>	<b>Light Sensors and Optical MEMS/NEMS</b>	<b>Energy Harvesting</b>	<b>Automotive Sensors and Sensors for (Aero)space</b>
11:10-11:40	Invited Talk - tbc	<b>Denis DONLAGIC</b> <i>Miniature, Alk-Silica, Fiber Optics Sensors Produced by Selective Etching of Phosphorus Doped Silica Glass</i> Invited Talk - ID 7574	<b>Susan TROLLER-MC KINSTRY</b> <i>Piezoelectric MEMS Energy Harvesters for Powering Sensor Systems</i> Invited Talk - ID 7582	<b>Ralf MOOS</b> <i>Sensing Catalytic Converters and Filters at Work Using Radio Frequencies</i> Invited Talk - ID 7580
11:40-12:00	<b>Philip SCHMITT</b> <i>A Micromechanical Binary Counter with MEMS-Based Digital-to-Analog Converter</i> Contributed Talk - ID 7150	<b>Els VAN BESSEN</b> <i>Silicon Based Nano-Thermoelectric Bolometers for Infrared Integrated RGB and NIR Filters</i> Contributed Talk - ID 7070	<b>Seyedfakhreddin NABAWI</b> <i>Design and Optimization of Low Resonant-Frequency Piezoelectric MEMS Energy Harvester Based on Artificial Intelligence</i> Contributed Talk - ID 7317	<b>Bernhard FISCHBACHER</b> <i>Tomographic Measurement of Ammonia Distribution on a Hot Gas Test Bench</i> Contributed Talk - ID 7245
12:00-12:20	<b>Gabriele BOSETTI</b> <i>Reliable Compact Models for the Investigation of Acoustic High-Frequency Effects in MEMS Transducers</i> Contributed Talk - ID 7440	<b>Aapo VARPULA</b> <i>Silicon Based Nano-Thermoelectric Bolometers for Infrared Detection</i> Contributed Talk - ID 7275	<b>Bruno ANDÓ</b> <i>Investigation of a Nonlinear Vibrational Energy Harvester in the Stochastic Resonance Regime</i> Contributed Talk - ID 7570	<b>Mike ANDERSSON</b> <i>On the Applicability of Silicon Carbide Based Field Effect Sensors in the Control of Exhaust/Flue Gas After-Treatment Systems</i> Contributed Talk - ID 7506
12:20-12:40	<b>Henry SCHMIDT</b> <i>Reduced Order Component &amp; System Level Modelling for Fluid-Solid Interactions in Complex MEMS Devices</i> Contributed Talk - ID 7327	<b>Thomas SÖLLRADL</b> <i>Characterization of a Vertical-Cavity Enhanced Detector for Narrowband Detection in the Mid-Infrared</i> Contributed Talk - ID 7044	<b>Ulises TRONCO JURADO</b> <i>Water-Dielectric Single Electrode Mode Triboelectric Nanogenerators for Ocean Wave Impact Energy Harvesting</i> Contributed Talk - ID 7027	<b>Gael CLOSE</b> <i>Experimental Demonstration of Stray-Field-Immunity Beyond 4 Ka/M for an Automotive-Grade Rotary Position Sensor</i> Contributed Talk - ID 7087
12:40-14:00	<b>Lunch Break</b>			
	<b>System Integration and Packaging, Reliability, Modelling and Simulation</b>	<b>Embedded Systems and Signal Processing</b>	<b>Energy Harvesting</b>	<b>Smart Systems and Wireless Sensor Networks</b>
14:00-14:20	<b>Mourad ELSOBKY</b> <i>Ultra-Thin Sensor Systems Integrating Silicon Chips with on-Fail Passive and Active Components</i> Contributed Talk - ID 7065	<b>Oriol GONZALEZ</b> <i>A Novel Modular eNose System Based on Commercial MOX Sensors to Detect Low Concentrations of VOCs for Breath Gas Analysis</i> Contributed Talk - ID 7404	<b>Kirsi TAPPURA</b> <i>A Thin-Film Thermoelectric Generator for Large-Area Applications</i> Contributed Talk - ID 7113	<b>Giorgio DE PASQUALE</b> <i>Smart Sensing on Textiles Through High Quality Roll-to-Roll graphene</i> Contributed Talk - ID 7467
14:20-14:40	<b>Gerald AUBÖCK</b> <i>Simulation Framework for Design and Analysis of a Nondispersive Infrared Spectroscopic Gas Sensor</i> Contributed Talk - ID 7415	<b>Romana BOIGER</b> <i>Exploring Temperature-Modulated Operation Mode of Metal Oxide Gas Sensors for Robust Signal Processing</i> Contributed Talk - ID 7487	<b>Micro- and Nanofabrication Technologies</b>	<b>Marco CRESCENTINI</b> <i>Ultra-Low Power CMOS Readout for Resonant MEMS Strain Sensors</i> Contributed Talk - ID 7371
14:40-15:00	<b>Michael HAUB</b> <i>Novel Design of an Extremely Miniaturized Accelerometer Based on a Quantum Tunneling Effect</i> Contributed Talk - ID 7471	<b>Alexey VASILIEV</b> <i>How to Detect Selectively Hydrogen and Hydrogen Containing Gases with Metal Oxide Gas Sensor Operating in Non-Stationary Thermal Regime?</i> Contributed Talk - ID 7116	<b>Jiushuai XU</b> <i>Area-Selective Growth of Aligned ZnO Nanorod Arrays for MEMS Device Applications</i> Contributed Talk - ID 7262	<b>Tobias MITTERER</b> <i>Artificial Landmarks Concept for Autonomous Vehicles Applied to a Magnetic Sensor System</i> Contributed Talk - ID 7219
15:00-15:30	<b>Closing Ceremony</b>			