

# EUROSENSORS 2018 Programme - Monday, 10 September 2018

9:00-9:30	Opening ceremony			
9:30-10:15	<b>Plenary Talk</b> <i>From Maxwell's Displacement Current to Nanogenerator Driven Self-Powered Systems and Blue Energy</i> <b>Zhong Lin WANG</b>			
10:15-11:00	<b>Plenary Talk</b> <i>Sense and Sensibility in Robots</i> <b>Maria Chiara CARROZZA</b>			
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
11:30-11:50	<b>Hayato TSUCHIYA</b> <i>Heat Flow Measurement by a Force and Thermal Sensor Stick for Robots with a Nerve-Net LSI Chip</i> Contributed Talk - ID 7248	<b>Anna STAERZ</b> <i>The Temperature Dependent Interaction of WO3 Sensors with Humidity</i> Contributed Talk - ID 7242	<b>Eugenio MARTINELLI</b> <i>More Than Random Walk: Cell Motility Based Sensor on to Evaluate the Drug Efficacy</i> Contributed Talk - ID 7335	<b>Aleksi HÄNNINEN</b> <i>An Inductively Coupled Biodegradable Capacitive Pressure Sensor</i> Contributed Talk - ID 7310
11:50-12:10	<b>Daniel POPA</b> <i>A CMOS-Based 8 x 8 Element Thermopile Array on a Single SiO2 Membrane</i> Contributed Talk - ID 7203	<b>Juan CASANOVA CHAFER</b> <i>Gas Sensing Properties of Carbon Nanotubes Decorated with Iridium Oxide nanoparticles</i> Contributed Talk - ID 7352	<b>Salvatore SURDO</b> <i>3D-Printed, Pocket-Size Diffusion Cells for Skin Permeation Investigation</i> Contributed Talk - ID 7302	<b>Senol MUTLU</b> <i>Displacement Sensor with Inherent Read-Out Circuit Using Water Gated Field Effect Transistor (WG-FET)</i> Contributed Talk - ID 7452
12:10-12:30	<b>Lalit KUMAR</b> <i>Clamping and Q-Factor Improvement in a Carbon Nanotube Resonator</i>	<b>Guillem DOMÈNECH-GIL</b> <i>Localized and in-situ Integration of Different Nanowire Materials for Electronic Nose Applications</i>	<b>Tanzir AHMED</b> <i>Fast Formation of Lipid Bilayer Membranes for Simultaneous Analysis of Molecular Transport Using Polyene 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>Advanced Functional Materials for Sensing and Actuating</b>	<b>Piezoelectric, Dielectric, Capacitive and Magnetic Sensors</b>
	Contributed Talk - ID 7277	Contributed Talk - ID 7191	Contributed Talk - ID 7145	Contributed Talk - ID 7330
14:00-14:20	<b>Daniel PLATZ</b> <i>Modelling Fluid Damping of Non-Conventional Vibration Modes in MEMS Resonators</i> Contributed Talk - ID 7423	<b>Jiushuai XU</b> <i>Silicon Microcantilevers with ZnO Nanorods/Chitosan-SAMs Hybrids on its Back Surface for Humidity Sensing</i> Contributed Talk - ID 7311	<b>Marcel KNOLL</b> <i>A Screen Printed Thermocouple-Array on a Flexible Substrate for Condition Monitoring</i> Contributed Talk - ID 7336	<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 7284
14:20-14:40	<b>Carlo TRIGONA</b> <i>Hybrid Micro Electro Mechanical Sensor Based on Graphene Oxide/Polyvinyl Alcohol for Humidity Measurements</i> Contributed Talk - ID 7313	<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> Contributed Talk - ID 7492	<b>Florent POURCIN</b> <i>Silver Growth on Tungsten Oxide Nanowires for Nitrogen Dioxide Sensing a Low Temperature</i> Contributed Talk - ID 7212	<b>Aurelien MAZZAMURRO</b> <i>Highly Sensitive Surface Acoustic Wave Magnetic Field Sensor Using Multilayered TbCo2/FeCo Thin Film</i> Contributed Talk - ID 7376
14:40-15:00	<b>Cyrus SHAFAI</b> <i>Study of Electrostatic Actuator Voltage Reduction with a Tri-Electrode Actuator with Varying Pull-Down Voltage</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>Margus KODU</b> <i>Highly Sensitive NH3 Sensors Using CVD and Epitaxial Graphene Functionalised with Vanadium(V) Oxide: a Comparative Study</i>	<b>Habiba BEGUM</b> <i>Self-Sustaining Square-Extensional Mode Resonator Oscillator for Mass Sensing in Liquid</i>
	<b>Advanced Functional Materials for Sensing and Actuating</b>			
	Contributed Talk - ID 7384	Contributed Talk - ID 7334	Contributed Talk - ID 7392	Contributed Talk - ID 7447
15:00-15:20	<b>Maria Francesca SANTANGELO</b> <i>Epitaxial Graphene Sensors Combined with 3D Printed Microfluidic Chip for Heavy Metals Detection</i> Contributed Talk - ID 7173	<b>Ambra FIORAVANTI</b> <i>Novel Methodology Based on Thick Film Gas Sensors to Monitor the Hydraulic Oil Ageing</i> Contributed Talk - ID 7369	<b>Anton BUCHBERGER</b> <i>Fast Humidity Sensors for Harsh Environment</i> Contributed Talk - ID 7403	<b>Vasco LIMA</b> <i>Low-Pressure Small MEMS Accelerometer Using Sigma-Delta Modulation</i> Contributed Talk - ID 7186
15:20-15:40	<b>Olga KOROSTYNSKA</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>Olga CASALS</b> <i>An LED Platform for Micropower Gas Sensors</i> Contributed Talk - ID 7304	<b>Michele RIGON</b> <i>Effect of Pt Nanoparticles on the Plasmonic and Chemoresistive Gas Sensing Properties of ZnO:Ga Film</i> Contributed Talk - ID 7299	<b>Kaoru YAMASHITA</b> <i>Vibration Mode Investigation of Piezoelectric Ultrasonic Microsensors on Buckled Diaphragms</i> Contributed Talk - ID 7460
15:40-16:00		<b>Alexandro CATINI</b> <i>Crown-Porphyrin Ligand for Optical Sensors Development</i>	<b>Ying TU</b> <i>The Effect of Semiconductor Morphology on the Spatial Resolution of ZnO Based Light-Addressable Potentiometric Sensors</i>	<b>Luca FRANCIOSO</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			