

6th International Workshop

Novel Developments and Applications in Sensor and Actuator Technology
17. - 18.09.2014, Institute of Sensor and Actuator Technology, Coburg

Preliminary time schedule *

Wednesday 17.09.2014

08:30 - 09:30	Registration
09:30 - 10:00	Welcome Prof. Dr. Gerhard Lindner , Director ISAT Prof. Dr. Eckardt Buchholz-Schuster , Vice President of Coburg University of Applied Sciences and Arts Stephan Horn , Wirtschaftsförderungsgesellschaft Coburg Reinhold Rösemann , AMA Association for Sensor Technology
10:00 - 11:00	Opening Lecture Reinhold Rösemann , AMA Association for Sensor Technology <i>Sensors in the internet of things</i> Prof. Dr. James Friend , RMIT University Melbourne, Australia <i>Acoustic microfluidics: from chip in a lab to lab on a chip</i> Dr. Takuya Higuchi , Friedrich-Alexander-Universität Erlangen-Nürnberg <i>A nano-scale vacuum tube diode triggered by few-cycle laser pulses</i>
11:00 - 12:00	Short Contributions I Prof. Dr.-Ing. Andreas König , Technische Universität Kaiserslautern <i>Advances of the multi-sensor intelligent integrated Lab-on-Spoon system for home-based food processing, analysis, and safety</i> Christoph Brückner, M.Eng. , BestSens AG <i>Bearing monitoring by means of guided waves</i>
12:00 - 13:00	Lunch Break
13:00 - 13:30	Invited Review Lectures I - Sensing technologies I Prof. Dr. Jeffery Martin , The University of Winnipeg, Canada <i>Magnetic sensors and controls for neutron electric dipole moment experiment</i>
13:30 - 14:30	Short Contributions II Eric Schulte Südhoff, M.Sc. , Institut für Textiltechnik (ITA) RWTH Aachen University <i>Measurement of optical yarn properties by using absorption and diffraction of coherent laser light</i> Dipl.-Ing.(FH) Mustafa Eskiner , Technologietransferzentrum Automotive der Hochschule Coburg (TAC) <i>Fuel quality sensor for biodiesel and biodiesel blends</i> Rongxiang Gu , Xi'an Chinastar M&C LTD <i>iHELP, pioneering wearable device of multi-sensors fusion</i>
14:30 - 14:45	Coffee Break
14:45 - 15:45	Invited Review Lectures II - Microacoustic sensor systems Dr. Joost Lötters , MESA+ Institute for Nanotechnology, University of Twente, The Netherlands <i>Integrated systems for the accurate measurement and control of micro liquid and gas flows</i> Ferdinand Singer M.Eng. , ISAT <i>Laser excitation of surface acoustic waves: fundamentals and applications</i>
15:45 - 16:30	Short Contributions III Dr. Astrid Stacheter , ISAT <i>Detection of organic dust particle deposition inside agricultural containers</i> Kenneth Li, M. Eng. , Audiowell Electronics(Guangzhou) Co., Ltd, PR China <i>The performance comparison between single layer and multilayer actuator</i>
16:30 - 17:00	Guided tour in the ISAT lab building
17:00	Reception and Dinner

Thursday 18.09.2014

08:30 - 09:10	Invited Review Lectures III - Acoustic actuators Dr. Paul Weaver , National Physical Laboratory, United Kingdom <i>Tough actuation - Piezoelectric actuators in harsh environments</i> Dr. Bram Verhaagen , BuBclean, The Netherlands <i>Enhancing acoustic cavitation and streaming using artificial crevices</i>
09:10 - 09:50	Short Contributions IV Dr. Jens Rautenberg , SensAction AG <i>Time-of-flight measurements of Leaky Lamb waves in bubbly liquids</i> Marina Reißweber , ISAT <i>Vibration induced atomization of a sessile drop</i>
10:00 - 10:30	Coffee Break
10:30 - 11:00	Invited Review Lectures IV - Sensing technologies II Prof. Dr. YiMing Zhu , University of Shanghai for Science and Technology, PR China <i>Organic materials and semiconductor devices detected by terahertz technology</i>
11:00 - 12:00	Short Contributions V Dipl.-Ing. (FH) Immanuel Roßteutscher , ISAT <i>Excitation of ultrasonic transducers by using different binary codes</i> Prof. Dr. Thomas Wieland , Fraunhofer Application Center Wireless Sensor Systems <i>Intelligent sensor data transport and processing</i> Dipl.-Inf.(FH). Patrick Rogge , Hochschule für Technik und Wirtschaft Dresden <i>Counting and classification of vehicles using laser scanner</i>
12:00 - 13:00	Lunch Break
13:00 - 14:00	Special Topic: Cryosensors Project Partners „CryoSense“ Martin Siegl, M.Sc. , German Aerospace Center, Institute of Space Systems <i>Advanced measurement techniques for the validation of CFD for cryogenic flows - An introduction</i> Dipl.-Ing. Magdalene Rossmann , Airbus Defence & Space GmbH <i>Sensor needs for experiments with cryogenic liquids for 1g and 0g</i> Sebastian Haaf M.Eng. , ISAT <i>Ultrasound tomography in cryogenic environment</i> Dipl.-Ing. Alice Fischerauer , Lehrstuhl für Mess- und Regeltechnik, University of Bayreuth <i>Investigation of the distribution of a cryogenic liquid inside an opaque tank using electrical capacitance tomography</i>
14:00 - 14:40	Short Contributions VI Cheng Liu, M.Sc. , ChenYang Technologies GmbH & Co. KG <i>Error compensation in Hall effect current sensors and measuring systems</i>
14:40 - 15:00	Summary Lecture
15:00 - 15:30	Coffee Break
15:30 - 16:30	Guided tour in the ISAT lab building

* subject to change