

Tuesday March 10

	Audimax	Hörsaal A	Hörsaal B	Seminarraum 1	Seminarraum 2
08:40		<div>Session 5 – Components for Radar & Communication Systems</div> <div>Chair(s): Dr. Cristina Andrei Brandenburg University of Technology</div> <div>Compact 60 GHz Base Station with Planar Antenna Array on Glass Substrate Dr. Niels Neumann Technische Universität Dresden Germany</div> <div>Broadband Polarizer Miter Bend for High Power Radar Applications Daniel Haas Karlsruhe Institute of Technology (KIT) Germany</div> <div>Multi-Antenna Diversity Set for Transmission and Reception in Car-to-Car and Car-to-X Communication Olha Voitsun Universität der Bundeswehr Germany</div> <div>A 108 GHz Up-Conversion Mixer in 22 nm FDSOI Prof. Ullrich Pfeiffer University of Wuppertal Germany</div>	<div>Session 6 – Radar Systems</div> <div>Chair(s): Prof. Arne F. Jacob Technische Universität Hamburg</div> <div>Real-Time Gesture Recognition with Shallow Recurrent Neural Networks Employing an Ultra Low Cost Radar System Matthias G. Ehrnsperger Technische Universität München Germany</div> <div>Design and Evaluation of a Passive Frequency-Coded Reflector using W-Band FMCW Radar Dr. Jan Barowski Ruhr-Universität Bochum Germany</div> <div>A 122 GHz ISM-Band FMCW Radar Transceiver Vincent Lammert FAU Erlangen-Nuremberg / Infineon Munich Germany</div> <div>3D Localization Using a Scalable FMCW MIMO Radar Design Jonathan Wittemeier Ruhr-Universität Bochum Germany</div>		<div>Workshop</div> <div>Active and Steerable Antennas</div>
10:00	<div>Coffee Break</div> <div>Room: Foyer</div>				
10:20	<div>Interactive Poster Session</div> <div>Chair(s): Evelynne Kaule Brandenburg University of Technology</div> <div>Analysis and Design of CMOS-based High Output Power RF-DAC Cell Erkan Bayram RWTH Aachen University Germany</div> <div>Motion Based Online Calibration for 4D Imaging Radar in Autonomous Driving Applications Yiyang Bao Karlsruher Institut für Technologie (KIT) Germany</div> <div>Prototyping of a multistandard transmitter with discrete components for FBMC applications Oner Hanay RWTH Aachen University Germany</div> <div>On Extended Kalman Filtering and Maximum-Likelihood Estimation for Point Target Localisation Stephan Häfner TU Ilmenau Germany</div> <div>Channel Measurements for the Evaluation of Evolving Next Generation Wireless Railway Communication Applications Kariem El Kholy Friedrich-Alexander-Universität Erlangen-Nürnberg Germany</div> <div>Design and Development of a Hot S-Parameter Measurement System for Plasma and Magnetron Applications Abdelrahman Elgamal FH-Aachen Germany</div>				<div>Workshop</div> <div>Active and Steerable Antennas</div>
11:40	<div>High-Temperature Device Characterisation, Modelling and Oscillator Design David Bierbüsse RWTH Aachen University Germany Dr. Muh-Dey Wei RWTH Aachen University Germany</div> <div>Low-Phase-Noise VCO using Cascode Q-enhancement Connection and Source-Damping-Resistance Technique Dr. Muh-Dey Wei RWTH Aachen University Germany Gyn-Wei Ko NXP Semiconductors Taiwan</div>			<div>General Meeting IEEE MTTs/AP</div>	
12:00	<div>Lunch</div> <div>Room: Foyer</div>				

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13:00		Session 7 – Communication Systems Chair(s): Prof. Vadim Issakov Infineon Technologies AG An Integrated 16-Element Phased-Array Transmitter Front-End for Wireless Communication at 185 GHz Vincent Rieß Technische Universität Dresden Germany Analysis and Simulation of a Wireless Phased Array System with Optical Carrier Distribution and an Optical IQ Return Path Stephan Kruse Heinz Nixdorf Institute, University of Paderborn Germany	Session 8 – Passive Structures & Systems Chair(s): Dr. Holger Maune TU Darmstadt Dielectric Image Line Liquid Crystal Phase Shi_er at W-Band Henning Tesmer Technische Universität Darmstadt Germany Slow Wave Inverted Microstrip Line Based on Metallic Nanowire Filled Alumina Membrane Wang Dongwei Technische Universität Darmstadt, Institut für Mikrowellentechnik und Photonik Germany		
13:30		Design and Assembly of Miniature Long-Term Trackers for Migrating Bats Stefan Erhardt Friedrich-Alexander-University Erlangen-Nuremberg Germany Adaption of a Low Power 122 GHz Radar Transceiver for Long Range Communications Dieter Genschow Silicon Radar GmbH Germany Measurement-based Misalignment Analysis of Dual-polarized 2 x 2 LoS MIMO System at 28 GHz Yueheng Li Karlsruhe Institute of Technology (KIT) Germany	Design and Fabrication of Barker Coded Surface Acoustic Wave (SAW) Correlator at 2.45 GHz for Low-Power Wake-up Receivers Saed Abughannam Heinz Nixdorf Institute, University of Paderborn Germany Design and Tolerance Analysis of Cascaded Broadband Contiguous Microwave Diplexers Florian Boes Karlsruhe Institute of Technology (KIT) Germany Marius Kretschmann Karlsruhe Institute of Technology (KIT) Germany Georg Gramlich Karlsruhe Institute of Technology (KIT) Germany Design and modelling of magnetic on-chip structures at 240 GHz Joachim Hebelers Karlsruhe Institute of Technology (KIT) Germany	Workshop Discussion Panel WIE	
14:40		Session 9 – Biomedical & Radar Systems Chair(s): Prof. Nils Pohl Ruhr-Universität Bochum DLR's Innovative Reference Target Development for Future SAR Missions Anna Maria Büchner Microwaves and Radar Institute, German Aerospace Center (DLR) Germany A Radar-Based Hand-Held Guidance Aid for the Visually Impaired Alexander Orth Ruhr-Universität Bochum Germany Spectrum-based Single-Snapshot Super-Resolution Direction-of-Arrival Estimation using Deep Learning Maximilian Gall Friedrich-Alexander-University Erlangen-Nuremberg (FAU) Germany A Radar-Based Vital Sign Sensing System for In-Bed Monitoring in Clinical Applications Fabian Michler University of Erlangen-Nuremberg Germany	Session 10 – Calibration & Characterization Chair(s): Prof. Ilona Rolfes Ruhr-Universität Bochum Dielectric Measurements of PAN Precursor and Stabilized Fibers Julia Hofele Karlsruhe Institute of Technology (KIT) Germany Instrument Error Model for Internal Calibration Jan Paul Kroll Microwaves and Radar Institute, German Aerospace Center (DLR) Germany Design and Verification of Teststructures for Complex Multilayer-PCB Interconnections Maren Willemsen IMST GmbH Germany Level probing in highly overmoded waveguides Dr. Mark Eberspächer Balluff GmbH Germany	Workshop Two genders, ten cultures, one lab - how we communicate	
16:00	Coffee Break Room: Foyer				
16:20		Session 11 – Waveguide Components Chair(s): Prof. Bianca Will FH Südwestfalen Realization of X-Band Waveguide Filters by Low-Cost FDM Additive Manufacturing Techniques Daniel Miek Christian-Albrechts-Universität zu Kiel Germany Numerical Study and Optimization of Post-Wall Waveguides and Filters for Millimeter Waves Arkadi Akopian Free University of Tbilisi Georgia Radiating Properties of a Hybrid Metal-Dielectric Structure Dmitriy Mayboroda V. N. Karazin Kharkiv National University Ukraine Study of Spurious Passbands of Ridged Hollow Waveguide Filters Jonas Weindl TU München Germany Design of a Quadruple-mode Filter using Folded Quarter-mode Substrate Integrated Waveguide Yang Yuan Shanghai Jiao Tong University China	Session 12 – Microwave Devices & Circuits Chair(s): Prof. Ingmar Kallfass University of Stuttgart Simulation and Measurement of PCB Crossover Structures from DC up to 70 GHz Andreas Scharl DIT Deggendorf Institute of Technology Germany A 1.6 GS/s Direct Digital Frequency Synthesizer with an Improved Interleaved Current-Steering DAC Layout Structure Tobias Schirmer Technische Universität Dresden Germany Fully Reconfigurable Bandpass with Continuously Tunable Center Frequency and Bandwidth Featuring a Constant Filter Characteristic Fynn Kamrath Christian-Albrechts-Universität zu Kiel Germany An Improved EM-Simulation Procedure to Extract Extrinsic Elements of Terahertz InP DHBTs Venkata Pawan K M Rao Sriperumbuduri BTU Germany Analysis of hot-carrier degradation in 22nm FDSOI transistors using RF small-signal characteristics Dang Khoa Huynh Fraunhofer IPMS Germany	Workshop PhD and now? Career Paths for Academics	
18:00	Conference Dinner – Tropical Island				