

Monday, April 15th

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| | Advances in Automotive Radar |
| 9:00-9:40 | (Invited) Tayfun Özdemir, Virtual EM Inc. |
| 9:40-10:00 | Sungdo Choi, Samsung Electronics, Korea "Doppler Coherent Focusing DOA Method for Efficient Radar Map Generation" |
| 10:00-10:20 | Nicolas Scheiner, Nils Appenrodt, Jürgen Dickmann, Bernhard Sick, Daimler AG & University of Kassel "Automated Ground Truth Estimation of Vulnerable Road Users in Automotive Radar Data Using GNSS" |
| 10:20-10:40 | Break |
| | Antennas and Arrays |
| 10:40-11:20 | (invited) Jonathan Lynch, HRL Labs |
| 11:20-11:40 | Chung-Tse Michael Wu, Chunchi Lu, Yichao Yuan, Chao-Hsiung Tseng, Rutgers University & National Taiwan University of Science and Technology "Multi-Target Detection Radar Sensor using 24 GHz Metamaterial Leaky Wave Antennas" |
| 11:40-12:00 | Jiahao Zhang, Sen Yan, Guy Vandenbosch, KU Leuven "A Low-Profile Frequency Reconfigurable Antenna with Polarization and Pattern Diversity" |
| 12:00-13:30 | ICMIM 2019 Lunch |
| | Plenary Session |
| 13:30-14:10 | Plenary Speaker, K. Venkatesh Prasad, Ford Motor Company |
| 14:10-15:10 | National Science Foundation Student Poster Competition |
| | New Hardware Approaches |
| 15:10-15:30 | Maximilian Steiner, Timo Grebner, Christian Waldschmidt, University of Ulm "Chirp-Sequence Based Imaging using a Network of Distributed Single-Channel Radar Sensors" |
| 15:30-15:50 | Eric Klinefelter, Jeffrey Nanzer, Michigan State University "Velocity Estimation with a Distributed Array for Autonomous Ground Vehicles" |
| 15:50-16:10 | Soumya K. Sireesh, Sanaz H. Abkenar, Niels Christoffers, Christoph Wagner, Andreas Stelzer, Johannes Kepler University Linz & Infineon Technologies & DICE GmbH "Direct Digital Modulation and RFDAC for Generation of Frequency Ramps in FMCW Radar" |
| 16:10-16:30 | So-hee Jeong, You-sun Won, Dongseung Shin, ETRI Korea "Fast DOA Estimation Method based on MUSIG Algorithm Combined Newton Method for FMCW Radar" |
| 16:30-17:30 | Break |
| 17:30-20:00 | ICMIM 2019 Reception at the Ford Museum |

Tuesday, April 16th

| | Advanced Signal Processing Approaches |
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| 9:00-9:20 | Javier M. Garcia, Robert Prophet, Juan C. F. Michel, Randolf Ebel, Martin Vossiek, Ingo Weber, Friedrich-Alexander-Universität Erlangen-Nürnberg & BMW Group "Identification of Ghost Moving Detections in Automotive Scenarios with Deep Learning" |
| 9:20-9:40 | Carlos M. Leon, Maria A. Gonzales-Huici, TU-Delft & Fraunhofer FHR "Data-Driven Generation of Road Scenarios for Hardware-on-the-Loop Radar Testing" |
| 9:40-10:00 | Jonas Fuchs, Robert Weigel, Markus Gardill, Friedrich-Alexander University Erlangen-Nürnberg & Innosent GmbH "Single-Snapshot Direction-of-Arrival Estimation of Multiple Targets using a Multi-Layer Perceptron" |
| 10:00-10:20 | Karim Ishak, Zeeshan Zafar, Maximilian Steiner, Nils Appenrodt, Jürgen Dickmann, Christian Waldschmidt, Ulm University & Daimler AG "A Radar Measurement Setup with a Ground Truth System for Micro-Doppler Human Movements" |
| 10:20-10:40 | Break |
| | Plenary Session |
| 10:40-11:20 | (invited) Markus Gardill, Innosent GmbH |
| 11:20-12:00 | National Science Foundation Student Poster Competition |
| | Interference Mitigation and Distortion |
| 13:30-13:50 | Konstantin Hahmann, Stefan Schneider, Thomas Zwick, Karlsruhe Institute of Technology & Daimler AG "Estimation of the Influence of Incoherent Interference on the Detection of Small Obstacles with a DBF Radar" |
| 13:50-14:10 | Aitor Correas-Serrano, Maria Gonzalez-Huici, Fraunhofer FHR "Sparse Reconstruction of Chirplets for Automotive FMCW Radar Interference Mitigation" |
| 14:10-14:30 | Pu Wang, David Millar, Kieran Parsons, Rui Ma, Philip Orlik, Mitsubishi Electric Research Laboratories "Range Accuracy Analysis of FMCW Systems with Source Nonlinearity" |
| 14:30-14:50 | Johannes Schlichenmaier, Fabian Roos, Philipp Hügler, Christian Waldschmidt, Ulm University "Clustering of Closely Adjacent Extended Objects in Radar Images using Velocity Profile Analysis" |
| 14:50-15:10 | Break |
| | New Applications |
| 15:10-15:50 | (Invited) Daniel Flores, General Motors Company |
| 15:50-16:10 | Alexander Kaineder, Oliver Lang, Reinhard Feger, Pail Dollhäubl, Andreas Stelzer, Stefan Leitner, Johannes Kepler Universität & Primetals Austria GmbH & Vöestalpine Stahl GmbH "Casting Powder Thickness Field-Measurement with Ultra Wideband Radar System" |
| 16:10-16:30 | Muhammad E. Asghar, Sreehari B. J. Gowdu, Johannes Nagel, Florian Baumgärtner, Ralf Stephan, Matthias Hein, Technische Universität Ilmenau, Daimler AG "Evaluation of Absorber Configuration for a Low Clutter Environment for Over-the-Air Automotive Radar Testing" |