

1st MARIE IRTG Scientific Seminar 2022

Lead project 1: Localization with drone/mobile robot using electronics

February 28, 2022

Online Seminar:

<https://uni-due.zoom.us/j/63538026549?pwd=SXZzMHIrZW5qdGpaYVBPQmZVVnRoQT09>

09.15 – 09.45	<i>“InP RTD Oscillator Design and Characterization”</i> – Enes Mutlu, Robin Kreß – Dept. Components for High Frequency Electronics – UDE C02
09.45 – 10.15	<i>“Group Delay Dispersion of Multiresonant Antennas and its Impact on Radar Imaging”</i> – Benedikt Sievert – Dept. of General and Theoretical Electrical Engineering – UDE C05
10.15 – 10.45	<i>“Identification of Chipless RFID Landmarks at 80 GHz and 240 GHz using FMCW Radars”</i> Jesús Sánchez Pastor – Institute for Microwave Engineering and Photonics – TU Darmstadt C09
11.00 – 12.00	<i>Keynote: “Low phase noise oscillators for mm-wave applications”</i> Dr. Indra Ghosh – IMST GmbH
12:00 – 12:20	<i>Tutorial: “RF Payload integration for drone applications”</i> Jonas Lehmke – IMST GmbH
12.20 – 14.00	Lunch Break
14.00 – 14.30	<i>Tutorial: “From Design to Chip – Designtools for non-silicon THz processes”</i> – Dept. Components for High Frequency Electronics – UDE C02
14.30 – 15.00	<i>“Deep Unfolding of Iteratively Reweighted RPCA for Wireless Sensing”</i> - Sampath Miriya Thantrige – Institute for Digital Communications Systems – RUB S02
15.00 – 15.30	<i>“UAV Positioning in Indoor and Outdoor Environments: Challenges and Opportunities for Embedded systems”</i> Dr. Sergio Pertuz and Ahmed Kamal – Chair of Adaptive Dynamic Systems – TU Dresden S05
15.30 – 16.30	PhD Student Discussion