



8. IEEE Germany Student Conference

THURSDAY, OCTOBER 25th, 2018

Fraunhofer VDTc | Joseph-von-Fraunhofer-Straße 1 | 39106 Magdeburg

09:00 - 11:30	Registration - Fraunhofer VDTc	
11:30 - 11:45	Welcome	
11:45 - 12:00	Coffee	
SESSION 1: MEDICAL ENGINEERING		
12:00 - 12:15	Matthias Will - SSVEP controlled BCI inferring complex tasks from low-level-commands	*
12:15 - 12:30	Karen Meyer zu Hartlage - Atemfrequenzbestimmung und Atemtriggerung im Magnetresonanztomographen mithilfe eines druckbasierten Systems	*
12:30 - 12:45	Max Rosenthal - Implementation of a positioning system in a GTEM cell	
12:45 - 13:00	Ursula Müller - Development of a software tool for the generation of CAD-ready 2D-Anti-Scatter-Grid models in Computed Tomography	
13:00 - 14:00	Lunch	
SESSION 2: POWER ELECTRONICS		
14:00 - 14:15	Anna Steenmann - On chip creation of intermetallic phase precursors enables rapid soldering process	*
14:15 - 14:30	Sören Heucke - Investigation of GaN HEMTs in an isolated 10 kW DC/DC-Converter	*
14:30 - 14:45	Pulkit Dhanuka - High Efficacy Filament LED Lamp System	
14:45 - 15:15	Coffee	
15:15 - 15:35	PLECS : Real-time Simulation with PLECS	
15:40 - 16:00	IBM : Benefits of mastering a microservice architecture	
16:00 - 17:30	Laboratory Tour at Experimentelle Fabrik	
19:00	Social Event: Conference Dinner - Lago di Garda	

* nominated for Würth Best Paper Awards



8. IEEE Germany Student Conference

FRIDAY, OCTOBER 26th, 2018

Fraunhofer VDTc | Joseph-von-Fraunhofer-Straße 1 | 39106 Magdeburg

09:30 - 10:15	Steffen Schulze - Keynote Würth Elektronik: Noise Suppression of Converters
10:15 - 10:45	Coffee
SESSION 3: AUTOMOTIVE	
10:45 - 11:00	Hui Cai - Determining Feasible Initial Set for Lane Change Maneuver Using Backward Reachability Analysis
11:00 - 11:15	Mohamed Kher Khshainy - Verfahren zur Störungskompensation bei der Strommessung in Elektromobilitätsanwendungen
11:15 - 11:30	Wenzhe Zhang - A path planning method for vehicle overtaking maneuver based on sigmoid functions
11:30 - 11:45	Cedric Oberdorfer - A real-time nonlinear model predictive control framework for autonomous driving vehicle
11:45 - 12:00	Pol Jané-Soneira - Formulation of Equations of Motion for Embedded Full Vehicle Dynamics Simulation *
12:00 - 13:00	Lunch
SESSION 4: POWER ENGINEERING	
13:00 - 13:15	Nóra Somodi - Chancen und Herausforderungen des Einsatzes der Blockchain-Technologie im Energiesektor
13:15 - 13:30	Xinya Song - Realization and Simulation of Hybrid Model by different Inverter Models based on Inverter-dominated Power Distribution Grid *
13:30 - 13:45	Shoaib Ansari - Testing IEC 60870-5-104 and C37.118 based Control Center Applications using a Real Time Simulation Platform
13:45 - 14:00	Lars Quakernack - Simulation of a Smart-Micro-Grid to Analyse an Intelligent Charge Management in Matlab Simulink for a Local Bakery Chain
14:00 - 14:15	Coffee
14:15 - 14:35	IAV : EMC on PCB-level: Classical Problems and Simulation as Validation
14:45	Würth Best Paper Awards