

# 2<sup>nd</sup> official Workshop on the Topic

## Programmable Processing for the Future and Autonomous Car

### - From classical FPGA to heterogeneous MPSoC

26<sup>th</sup> June 2018 / Hochschule Ulm, 89075 Ulm, Germany

## Agenda

08:45 – 09:15 Uhr	Registration
09:15 – 09:30 Uhr	Anestis Terzis (Hochschule Ulm) & Endric Schubert (MLE): <b>Welcome Note</b>
09:30 – 10:00 Uhr	Karsten Trott (Field Applications Engineer, Xilinx): <b>Xilinx reVision xfOpenCV.</b>
10:00 – 11:00Uhr	Key Note: Wolfgang Fey (Senior Manager Assisted Driving Control Systems, Location Manager, Continental Ulm): <b>Automated Driving: A "Quantum Leap" for the next Generation Automotive Systems!</b>
11:00 – 11:30 Uhr	Felix Eberli (Department Head, Supercomputing Systems AG): <b>Smart Automotive Sensors with acceleration on FPGA and CPU.</b>
11:30 – 12:00 Uhr	Dr. Petros Kapsalas (Computer Vision Expert, Panasonic Automotive & Industrial Systems): <b>Supervised versus Unsupervised SLAM.</b>
12:00 – 12:30 Uhr	Jochen Frensch (Lead Engineer, Mentor Embedded, Mentor Graphics Development (Deutschland) GmbH): <b>Implementation of a fully connected feed forward neural network using Vivado HLS.</b>
<b>12:30 – 13:30 Uhr</b>	<b>Lunch / Networking</b>
13:30 – 14:00 Uhr	Mark Leznik (Researcher, Institute of Information Resource Management, Ulm University): <b>Is the Cloud Ready for Autonomous Driving?</b>
14:00 – 14:30 Uhr	Philipp Hoffmann (Project Manager Interior Concepts Entry Class Vehicles, BMW Group): <b>Concepts and Image Processing with Multi-Camera-Monitor-Systems.</b>
<b>14:30 – 15:00 Uhr</b>	<b>Coffee Break / Networking</b>
15:00 – 15:30 Uhr	Steffen Jannik Maier (Researcher, Institute of Communication Technology, Hochschule Ulm): <b>Image Signal Processing for a Camera-Monitor-System with an Zynq FPGA.</b>
15:30 – 16:00 Uhr	Tobias Augspurger (Group Leader Department Autonomous Logistics, StreetScooter GmbH): <b>Open Source System Prototyping in Autonomous Logistics.</b>
16:00 – 16:15 Uhr	Anestis Terzis (Hochschule Ulm): <b>Closing the Workshop, Outlook.</b>

**Program Committee** Prof. Dr. A. Terzis, Dr. E. Schubert, M. Güthoff **Conference Language** German and English  
**Contact** Prof. Dr. A. Terzis, Eberhard-Finckh-Straße 11, 89075 Ulm, Fon: +49 (0731) 50-28341, terzis@hs-ulm.de



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#### Registration:

The fee for this Workshop is 50 € and includes workshop documentation and lunch. The participation for students and employees of the Hochschule Ulm is free of charge. The payment will be directly on site.

Seating is limited. Please register via email with your name, contact info and company affiliation that we can reserve a seat for you. Please use the following email address to register:

**fpga2018@mlecorp.com**

In case of administrative or organizational questions please contact Diana Gnensch: +49 1511 511 86 52.

#### The Workshop will take place:

Hochschule Ulm  
Campus Albert-Einstein-Allee  
Albert-Einstein-Allee 55  
89081 Ulm  
Room Q029



#### Directions:

Please click the following link to find the location:

<https://studium.hs-ulm.de/de/Seiten/Standorte.aspx>

This Workshop will be located at Campus Albert-Einstein-Allee, Location B.



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