

# EUROSENSORS School 2018

## Sensors for Autonomous Driving



**SUNDAY, SEPTEMBER 9<sup>TH</sup>, 2018**

**University of Graz, ReSoWi - Faculty of Law**  
Universitätsplatz 15, 8010 Graz, room HS 15.04

The EUROSENSORS School addresses the fundamentals of sensor technology, sensor signal processing, sensor data fusion, and in-vehicle intelligence in the emerging field of connected automated driving. Current technological challenges, existing limitations, recent developments and breakthroughs along with potential applications will be discussed.

The lectures are given at the graduate level and typically span from the scientific basic principles to the implementation and integration in actual components, systems, and vehicles. They are intended for PhD students and young researchers in the field, researchers who have recently entered the interdisciplinary field of automotive sensors and actuators, and for colleagues who want to brush up their fundamental knowledge in the field of vehicle autonomy.

### **EUROSENSORS School Chair:**

**Prof. Dr. Daniel Watzenig**, Graz University of Technology, Virtual Vehicle Research Center, Graz (Austria)

### **EUROSENSORS Tentative Program**

#### **10.00 Welcome EUROSENSORS 2018 School Chair**

**Prof. Dr. Daniel Watzenig**  
Graz University of Technology,  
Virtual Vehicle Research Center, Graz (Austria)

#### **10.10 Aspects of Automotive Radar**

**Dipl.-Ing. Dr.techn. Helmut Schreiber**  
Graz University of Technology, Radar & Microwave  
Propagation Institute of Microwave and Photonic  
Engineering, Graz (Austria)

#### **11.00 Coffee Break**

#### **11.30 Optical Time-of-Flight Sensors for Autonomous Driving**

**Dr. Norbert Druml, Dr. Marcus Hennecke**  
Infineon Technologies AG, Concept Engineering,  
Graz (Austria)

#### **12.20 Multi-Functional ADAS Camera Model & Real Sensor as an Enabler for Autonomous Driving**

**B.Sc. M.Sc. PhD.C. Kmeid Saad**  
Kempten University of Applied Sciences,  
Faculty of Electrical Engineering, Kempten,  
Continental Automotive Lindau (Germany)

#### **13.10 Lunch Break**

#### **14.40 Sensor Fusion for Autonomous Drive Perception: Smart Camera and RADAR Fusion Application**

**Umut Karapinar, MSc.**  
Autonomous Drive and Vehicle Controls,  
AVL Turkey, Istanbul (Turkey)

#### **15.30 Learning Stereo**

**Dipl. Ing., Patrick Knöbelreiter**  
Graz University of Technology,  
Institute for Computer Graphics and Vision,  
Graz (Austria)

#### **16.20 End of EUROSENSORS School**

#### **Registration fee**

Early Bird Fee € 100,- until 30 June 2018 – after 30 June € 110,- (including school materials, coffee breaks and lunch snack). Registration: [www.eurosensors2018.eu](http://www.eurosensors2018.eu)

#### **Please note**

The school registration does not allow conference participation and vice versa. Participation to the EUROSENSORS 2018 Conference is not required for participation to the EUROSENSORS School.