



**SCIENTIFIC  
VISION DAYS**

2018

HALL 1 | BOOTH 1D82  
LECTURE PROGRAM  
07. - 08. NOVEMBER 2018

### SCIENTIFIC EXCELLENCE ON STAGE

The SCIENTIFIC VISION DAYS are the well-established lecture series of the AIT Austrian Institute of Technology and its partners. Experts from Science and Industry will present cutting-edge technologies covering all aspects of machine vision. This year's topics include 3D Vision, High Speed Imaging, Inline Computational Imaging, Deep Learning and Testing of Computer Vision Systems.

We look forward to your visit.



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### KONTAKT

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## WEDNESDAY, 07. 11. 2018

10:30

### Camera Characterization to Multiple Imaging Modes Extending the EMVA 1288 Standard

Bernd Jähne  
Universität Heidelberg / Chair EMVA

10:50

### Testing Robustness of Computer Vision Systems

Markus Murschitz  
AIT Austrian Institute of Technology

11:10

### EdgeBox, the Key to Connecting Vision and Sensors to the Cloud

Manakov Alkhazur  
IMAGO Technologies

11:30

### Ultra-Schnell Gepulste LED-Beleuchtung öffnet neue Dimension für Optische Oberflächen-Inspektion

Ernst Bodenstorfer  
AIT Austrian Institute of Technology

11:50

### Scalable, Modular Stereo Baseline Designs

Markus Murschitz  
AIT Austrian Institute of Technology

12:10

### Real-Time 3D Models of Human Body Cavities - a Disruptive Innovation on the Way

Marlis Wallek  
EYES.Tec

12:30

### How to Synchronize High Speed Cameras over Ethernet Using the Precision Time Protocol, a Case Study

Nikolaus Kerö  
Oregon Systems

12:50

### xposure Camera, More than just the Fastest Linescan Camera

Ernst Bodenstorfer  
AIT Austrian Institute of Technology

13:10

### Thermografie für Produktion und Entwicklung

Gerhard Traxler  
PROFACTOR

## WEDNESDAY, 07. 11. 2018

13:30

### Inline Computational Imaging: Single Sensor Technology for Simultaneous 2D and 3D High Definition Inline Inspection

Svorad Stolz  
AIT Austrian Institute of Technology

13:50

### Inline Computational Imaging Meets Convex Optimization

Thomas Pock  
TU Graz ICG / AIT

14:10

### Modification of Microscope Optics for 3D In-Line Imaging

Lukas Traxler  
AIT Austrian Institute of Technology

14:30

### Test Data Generation and Benchmarking of Light Field Algorithms

Katrin Honauer  
Heidelberg University

14:50

### Making Robots See: Advanced Light Field Imaging for Industrial Automation and Inspection

Sebastian S. Grabe  
HD Vision Systems

## THURSDAY, 08. 11. 2018

10:50

### Systematically Testing of Document Authentication Systems

Franz Daubner  
AIT Austrian Institute of Technology

11:10

### The Past and the Future of Light Field Imaging

Hendrik Schilling  
Visual Learning Lab Heidelberg

11:30

### Geometric Calibration of Inline Computational Imaging

Bernd Blaschitz  
AIT Austrian Institute of Technology

## THURSDAY, 08. 11. 2018

11:50

### Motion Artefact Compensation for Inline Computational Imaging

Nicole Brosch  
AIT Austrian Institute of Technology

12:10

### Multisensorales Multispektrales Sensorsystem

Alfred Rinnhofer  
Joanneum Research

12:30

### Online Microscopic Inspection of Wires with Diameters Below 100µm and Production Speeds up to 20m/min

Aneta Czetina  
AIT Austrian Institute of Technology

12:50

### Using Deep Learning in Industry

Karel Horak  
Brno University of Technology

13:10

### An Explanation of Generative Adversarial Networks in Industrial Settings for Problems with Insufficient Data

Thomas Pinetz  
AIT Austrian Institute of Technology

13:30

### PhoXi® 3D Camera - the Highest Resolution and Highest Accuracy 3D Camera in the World

Tomas Kovacovsky  
Photoneo

13:50

### RoadStar, High Speed 3D Road Surface Analysis

Simon Breuss  
AIT Austrian Institute of Technology

14:10

### Smarte LiDAR Detektoren für Outdoor Applikationen

Jennifer Ruskowski  
Fraunhofer IMS

14:30

### Sind Lehrveranstaltungen zu Grundlagen der Bildverarbeitung an Unis und FHs noch zeitgemäß?

Kurt Niel  
FH Wels