Industrial VISION Days*

3D | Forschung & Innovation | Inspect application forum | Hyperspectral | Kamera Technologie | Optik und Beleuchtung | Software & Deep Learning | Standards | Vision Processing (Embedded Vision, IPC, GPU)

06. November 2018

Uhrzeit Time	STAGE 1 Halle 1, Stand Z75	Uhrzeit Time	STAGE 2 Halle 1, Stand A75
9:30–10:00	**Multi Camera Systems** Vasant Dasai, XIMEA	9:30–10:00	**There can be no light. How to select a better lighting solution in the machine vision application** Prof. Lu, OPT MACHINE VISION
10:00–10:30	**High-speed prism-based imaging: Adding versatility with a backwards compatible 10GigE interface** Paritosh Prayagi, JAI A/S	10:00–10:30	**Ringlight, Darkfield, Dome, Backlight – Every time a different light required?** Alexander Trebing, CRETEC GmbH
10:30–11:00	**Benefits of using polarization in machine vision applications** Tobias Schenk, Baumer Optronic GmbH	10:30–11:00	**Why digital lighting controllers and lighting become more and more important as part of IIoT-enabled automation solutions with machine vision** Ingmar Jahr, evotron GmbH & Co. KG
11:00–11:30	**Event-based vision enables a new computer vision paradigm based on how the human eye and brain work to dramatically improve the efficiency and intelligence of vision sensing and processing** Philippe Berger, PROPHESEE	11:00–11:30	**Resolution or Detection? Specification of high resolution lenses** Thomas Schäffler, Qioptiq Photonics
11:30–12:00	**Witness, an autonomous camera integrated in a palm-sized sticker** Pascal Nussbaum, CSEM SA	11:30–12:00	**Choosing the Best Optical Filter for Your Application** Georgy Das, Midwest Optical Systems (MidOpt)
12:00–12:30	**Embedded Vision Solutions – state of the art, options and applications** Jan-Erik Schmitt, Vision Components GmbH	12:00–12:30	**Variable Focus, Adaptable Lenses for Machine Vision using Electrowetting Technology** Glenn-Iv Plaine, Corning
12:30–13:00	**New Generation of Camera Modules for Embedded and PC-based Vision Systems** Gion-Pitschen Gross, Allied Vision Technologies GmbH	12:30–13:00	**Liquid lenses for endocentric and telecentric optics** Mark Ventura, Optotune Switzerland AG
13:00–13:30	**Why use a PC-based Machine Vision system when there are smart cameras in the vision world?** Erik Seijner, AAEON Technology Europe B.V.	13:00–13:30	**3D-Imaging with a Single Standard Camera Sensor** Dr. Klaus Illgner, K|Lens GmbH
13:30–14:00	**How far can smart cameras go?** T. Eric Hopkins, Visics Corporation	13:30–14:00	**Autonomous Machine Vision Launches A New Era in Machine Vision** Harel Boren, Inspekto
14:00–15:00	**VDMA Panel Discussion: The Future of Vision – Are we entering a new era?** Andreas Franz, FRAMOS GmbH; Olaf Munkelt, MVTec Software GmbH; Klaus-Henning Noffz, Silicon Software GmbH; Christian Ripperda, ISRA VISION AG; Bahram Torabi, SICK AG; Mark Williamson, STEMMER IMAGING AG; Moderated by Joachim Hachmeister, inspect	14:00–14:30	**A novel Vision-System-on-Chip for embedded image acquisition and processing** Dr. Jens Döge, Fraunhofer Institute for Integrated Circuits IIS, Division Engineering of Adaptive Systems EAS
		14:30–15:00	**A very small, dust-care free optical connector for 10G+ machine vision applications** Dr. Hideki Kamitsuna, YOKOWO CO., LTD.
15:00–15:30	**How to deploy a deep learning solution for complex visual inspection?** Pierre Gutierrez, Scortex	15:00–15:30	**Inline Computational Imaging Meets Convex Optimization** Univ.-Prof. Dipl.-Ing. Dr. techn. Thomas Pock, AIT Austrian Institute of Technology GmbH/TU Graz
15:30–16:00	**NXT applications for on-camera neural networks** Robert-Alexander Windberger, IDS Imaging Development Systems GmbH	15:30–16:00	**Optimized Design of 3D Laser Triangulation Systems** Dr.-Ing. Athinodoros Klipfel, AT – Automation Technology GmbH
16:00–16:30	**How mvIMPACT Configuration Studio simplifies the application of industrial vision systems** Carsten Friedrich, MATRIX VISION GmbH	16:00–16:30	**High performance 3D imaging** Markus Weinhofer, SICK AG
16:30–17:00	**Using Deep Learning and Neural Networks – Learn How FLIR is Ready to Help with our Newest Technologies** Paul Kozik, FLIR Systems, Inc.	16:30–17:00	**3D Ultrasound Sensors for Mobile Field Robots** Felix Kaiser, Toposens GmbH

07. November 2018

Uhrzeit Time	STAGE 1 Halle 1, Stand Z75	Uhrzeit Time	STAGE 2 Halle 1, Stand A75
9:30–10:00	**Unlocking the value of industrial AIoT** Vanessa Kluge, IEI Integration Corp.	9:30–10:00	**PhoXi® 3D Camera – the highest resolution and highest accuracy area based 3D camera in the world** Jan Zizka, Photoneo
10:00–10:30	**webHMI – makes image processing more intuitive** David Buchanan, Vision & Control	10:00–10:30	**3D multi-stereo sensor with large measuring field realizes short scanning times with optimum precision** Holger Wirth, ISRA VISION AG
10:30–11:00	**Novel Machine Vision Cameras Featuring CQD Sensors for High Resolution, Lower Cost SWIR Imaging** Dr. Ethan Klem, SWIR Vision Systems Inc.	10:30–11:00	**Advanced 3D Inspection in Product Lifecycle Management** Markus Oßwald, SAC Sirius Advanced Cybernetics GmbH
11:00–11:30	**Higher and Faster – New Architectures to Cover the Need** René von Fintel, Basler AG	11:00–11:30	**3DPIXA: Advantages of stereo line scan for 3D applications** Dr. Klaus Riemer, Chromasens GmbH
11:30–12:00	**Laser line technology for 3D vision** Thomas Ruhnau, Z-Laser Optoelektronik GmbH	11:30–12:00	**3D and snapshot hyperspectral cameras based on continuously variable filters** Dr.-Ing. Oliver Pust, Delta Optical Thin Film A/S
12:00–12:30	**A 400 KHz line rate 2048-pixel Stitched SWIR linear array** Raf Vandersmissen, Xenics nv	12:00–12:30	**Hyperspectral Machine Vision – smart automation for the future** Casey Smith & Ryan Anderson, Resonon (c/o Laser 2000)
12:30–13:00	**Industrial camera innovations beyond the mainstream – solve your applications more efficiently** Volker Zipprich-Rasch, Baumer GmbH	12:30–13:00	**New Algorithmic Approaches to Hyperspectral Data Processing** Dr. Jan Makowski, LuxFlux GmbH
13:00–13:30	**Smart GenICam** Kathrin Happel, IDS Imaging Development Systems GmbH	13:00–13:30	**Quantitative Chemical Imaging: Transfer of laboratory-based quality control into the production line** Dr. Matthias Kerschhaggl, EVK
13:30–14:00	**New CoaXPress 2.0 Vision Interface Standard Enables Faster, Higher Resolution Machine Vision and Video Applications** Marc Damhaut, EURESYS s.a.	13:30–14:00	**User-guided interpretation of spectral images with automatic machine learning** Dr. Pavel Paclik, perClass BV
14:00–14:30	**Achieving High-Performance Vision Processing for IoT Applications** Jérôme Jacqmin, Qualcomm Technologies, Inc.	14:00–14:30	**Solutions for multispectral sorting applications** Michael Stelzl, MSTVision GmbH
14:30–15:00	**High-Performance optical filters for Machine Vision** Jeff Carmichael, Chroma Technology	14:30–15:30	**Global Vision Standards Update** Bob McCurrach (AIA), Yu Xiao Juan (CMVU), Jochem Herrmann (EMVA), Sachio Kiura (JIIA), Dr. Horst Heinol-Heikkinen (VDMA), G3
15:00–15:30	**Embedded Machine Vision: Discover Real Time & The Scalability of ARM CPU/Cameras** Carsten Strampe & Vivien Möslang, IMAGO Technologies GmbH		
15:30–16:00	**High-speed image acquisition with real-time GPU processing** Frans Vermeulen, Active Silicon Ltd.	15:30–16:00	**OPC UA Vision** Dr. Horst Heinol-Heikkinen, VDMA
16:00–16:30	**ShapeDrive – The Powerful Art of 3D Measurement** Sascha Reinhardt, wenglor sensoric GmbH	16:00–16:30	**VDI/VDE/VDMA 2632: Ensuring your vision project is a success!** Prof. Dr.-Ing. Michael Heizmann, Karlsruher Institut für Technologie (KIT)
16:30–17:00	**Advanced Material Handling with New Sony DepthSense™ Time of Flight Technology** Jenson Chang, LUCID Vision Labs, Inc.	16:30–17:00	**Ai-powered computer vision for content retrieval from photos of product packaging** Pawel Osterreicher, deepsense.ai Sp. z o.o.

08. November 2018

Uhrzeit Time	STAGE 1 Halle 1, Stand Z75	Uhrzeit Time	STAGE 2 Halle 1, Stand A75
9:30–10:00	**AI used in machine vision applications** Bill Ouyang, Beijing Microview Science and Technology Co., Ltd.	9:30–10:00	**EligoPart – das Komplettpaket für Pick & Place** Christian Vollrath, attentra GmbH
10:00–10:30	**Real-world applications of deep learning tools in industrial vision systems** Michal Czardybon, Adaptive Vision	10:00–10:30	**Belt picking with TriSpectorP** Nina Hammerin, SICK AG
10:30–11:00	**Machine learning in industrial machine vision – challenges and application examples** Dr. Jon Vickers, STEMMER IMAGING AG	10:30–11:00	**Achieving True Human Machine Collaboration with Vision and Robotics** Arndt Neues, Omron Electronics GmbH
11:00–11:30	**Machine Learning für Make & Model Recognition (MMR) mit Embedded Vision** Michael Beising, EVT Eye Vision Technology	11:00–11:30	**Real-time 3D Robot Vision using 3D Stereo Vision** Thor Vollset, Tordivel AS
11:30–12:00	**Deep Learning as Part of Modern Machine Vision Applications with MVTec HALCON 18.11** Johannes Hiltner, MVTec Software GmbH	11:30–12:00	**Think outside the box: A Scalable edge computing device for the Smart Factory** Christian Benderoth, LMI Technologies
12:00–12:30	**Industrial Cameras and Vision Systems: Market and Trends** Ute Häußler, FRAMOS GmbH	12:00–12:30	**Objective Zero defects: Microscopic resolution takes over on production lines** Cosimi Corleto, STIL SAS
12:30–13:00	**Cameras to Drive Next Generation Analytical Instruments: Scientific Machine Vision, 95% Quantum Efficiency and Computational Imaging** Dr. Steven Smith, Photometrics	12:30–13:00	**How to decrease the cost of quality by automating complex visual inspection?** Aymeric De Pontbriand, Scortex
13:00–13:30	**Multi-spectral line scan camera based on Hybrid TDI technology** Wojciech Majewski, vieworks	13:00–13:30	**Image recognition with Deep Neural Networks for inspection of medical products** Dr. Tassilo Christ, d-fine GmbH
13:30–14:00	**KB ViTA: Innovations in three spectral ranges** Maksim Bulatov, KB ViTA/Opto Lab UG	13:30–14:00	**Advanced Lens Selection – What MTF curves can and cannot tell you** Dr. Boris Lange, Edmund Optics
14:00–14:30	**Cost-effective uncooled InGaAs SWIR image sensors and how to use them in Machine Vision** Sébastien Frasse-Sombet, Sofradir	14:00–14:30	**Hyperspectral & SWIR LED Illumination: Bridging the Gap between Spectral Imaging & Industrial Automation** James Gardiner, Metaphase Lighting Technologies
14:30–15:00	**Going Polarized: Adding a New Perspective to Industrial Imaging** Nina Chen, LUCID Vision Labs, Inc.	14:30–15:00	**Correcting barrel distortion in wide angle images using Theia Technologies megapixel lenses with patented, all optical distortion correction technology** Mark Peterson, Theia Technologies
15:00–15:30	**VisualApplets 4 Deep Learning – CNNs enter Factory Floor** Michael Noffz, Silicon Software GmbH	15:00–15:30	**Flicker- and reflection-free multi-light illumination and other technologies to empower human and enhance machine vision** Andrei Lebedev, Octonus, Finland Oy
15:30–16:00	**How to best validate a deep-learning based vision application on the factory floor** Oliver Despont, Cognex Germany, Inc.	15:30–16:00	**3D Inspection of Mobile Glass Screens using Multiview Deflectometry** Dr. Tahir Rabbani, Viztronics Smart Solutions
16:00–16:30	**Deep Learning Vision Solutions in the Age of Industry 4.0** Donghee Lee, SUALAB Co., Ltd.	16:00–16:30	**How to succeed in robot automation using human-like 3D vision with excellent Quality of Data (QoD)** Henrik Schumann-Olsen, Zivid AS

*Änderungen vorbehalten, Angaben ohne Gewähr, Landesmesse Stuttgart GmbH, 10/2018