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# Digital Conference for Machine Vision

December 5 – 7, 2023

More information and free registration at **www.invdays.com**

## Day 1: Cameras & Optics

Tuesday, 5. December

| | | |
|---|---|---|
| 09:15 | inVISION | **Welcome** |
| 09:20 | TELEDYNE e2v | **Keynote:** 3D Stacked Technology for CMOS Image Sensors |
| SESSION 1 | Cameras & Components | |
| 10:00 | PROPHESEE | Revolutionizing Machine Vision: Harnessing Event-Based Vision for Industrial Automation Systems |
| 10:20 | LUCID VISION LABS | The benefits of Remote Direct Memory Access (RDMA) for 10GigE cameras |
| 10:40 | MURR ELEKTRONIK | Fed up with wiring hassles? Machine Vision unleashed |
| 11:00 | emergent | Any speed, any resolution, any cable length, any sensor, any application |
| 11:20 | heliotis | Camera with integrated parallel lock-in technology |
| 11:50 | emva | **EMVA Innovations – Part 1** (11:50 Photon Force, 12:00 Detagto, 12:10 Holoeye) |
| SESSION 2 | Optics & Filters | |
| 12:20 | Edmund | Imaging Optics& Size, Weight and Power (SWaP) |
| 12:40 | EXCELITAS, qioptiq | Advantages of Wide-Field Microscopy in High-Throughput Industrial Applications |
| 13:00 | Schneider Kreuznach | Lenses for large line scan and area sensors up to 82mm |
| 13:20 | VISION & CONTROL | Blue Vision Telecentric Lenses – From micro to macro |
| 13:40 | MIDOPT | Protect and Enhance Your Imaging Systems with Optical Filters |
| SESSION 3 | High-Speed Vision | |
| 14:10 | emergent | 5+, 10, 25, 50, and 100GigE Vision for all Applications |
| 14:30 | euresys | CoaxPress-over-Fiber: Opportunities with a state-of-the-art technology |
| 15:00 | emva | **EMVA Innovations – Part 2** (15:00 First Light Imaging, 15:10 Pure Spectra, 15:20 Gelsight) |
| 15:30 | BASLER, ISRA, tiama | **Panel Discussion:** How to choose a camera? |

## Day 2: Imaging beyond the visible

Wednesday, 6. December

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|---|---|---|
| 09:15 | VISION | **Welcome** |
| 09:20 | emva | **Keynote:** Trends & Applications for Spectral Imaging |
| SESSION 4 | Multi- & Hyperspectral Imaging | |
| 10:00 | EVK | From cloud to edge computing: A data processing journey in hyperspectral imaging |
| 10:20 | HACARUS | Augmenting Human Expertise with AI-Powered Hyperspectral Image Analysis – Lessons Learned |
| 10:40 | chromasens | Multispectral Line Scan Imaging |
| 11:00 | JAI | Multispectral Imaging: Possibilities using prism technology |
| 11:20 | Headwall | Hyperspectral solutions |
| 11:50 | emva | **EMVA Innovations – Part 3** (11:50 Cubert, 12:00 DeltaRay, 12:10 X-Next) |
| SESSION 5 | SWIR & UV | |
| 12:20 | EXCELITAS pco. | Multispectral Imaging with SWIR Cameras |
| 12:40 | Allied Vision | eXtended SWIR – Spectral Imaging Technologies |
| 13:00 | LUCID VISION LABS | Advanced Sensing with LUCID Cameras – SWIR, UV and Polarized |
| 13:20 | photon focus | UV camera and its applications |
| SESSION 6 | Thermography | |
| 13:50 | InfraTec | Various Methods of Active Thermography |
| 14:10 | Automation Technology | Smart Thermography: How Temperature Monitoring can be done easily via Apps |
| 14:30 | TELEDYNE FLIR | Infrared Machine Vision in Automation |
| 15:00 | emva | **EMVA Innovations – Part 4** (15:00 Voidsy, 15:10 Xarion, 15:20 Metaspectral) |
| 15:30 | macnica, TRIEYE, SWIR Vision Systems, Xenics | **Panel Discussion:** What to expect in SWIR? |

## Day 3: Embedded Vision & AI

Thursday, 7. December

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|---|---|---|
| 09:15 | emva | **Welcome** |
| 09:20 | brighter AI | **Keynote:** Safeguarding the Future: Urgent Measures for Securing Embedded Vision & AI Systems |
| SESSION 7 | Embedded Vision | |
| 10:00 | vision components | More with MIPI: from interface to ecosystem |
| 10:20 | Baumer | Join us at-the-edge: Easy to use smart cameras for AI and industry 4.0 |
| 10:40 | IDS | Embedded vision approach: Component selection, challenges and successful application integration |
| 11:00 | EFINIX | Efinix FPGA Vision Solutions |
| 11:20 | STEMMER IMAGING | More than a product – Modular Embedded application examples |
| 11:50 | emva | **EMVA Innovations – Part 5** (11:50 Cambrian Robotics, 12:00 Psiori, 12:10 24Vision) |
| SESSION 8 | AI & Deep Learning | |
| 12:20 | euresys | Choosing the most appropriate deep learning tool for your application |
| 12:40 | B&R | Maximum flexibility and productivity with AI Power |
| 13:00 | AMD | Visual intelligence at the edge for factory automation and robotics |
| 13:20 | MECH MIND | Fusion of Minds: AI & Deep Learning in 3D Vision |
| 13:40 | macnica, Retrocausal | Higher productivity. Deeper insight. Designed with AI, for today´s manufacturer |
| SESSION 9 | Smart Cameras | |
| 14:10 | B&R | Next level of integrated machine vision |
| 14:30 | DOLPHIN DESIGN | CamCube: From IP design platforms to a power-efficient |
| 15:00 | emva | **EMVA Innovations – Part 6** (15:00 Sightwise, 15:10 DeGould, 15:20 RabbitAI) |
| 15:30 | MADDOX AI, IDS, MVTec, ARC | **Panel Discussion:** Why AI is not Easy-to-use after all? |

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