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About EMVA

Founded in Barcelona in May 2003, the European Machine Vision Association is an industry-driven networking framework providing a constant source of exchange, information and inspiration on machine vision technology in Europe.

More than 100 companies, some national machine vision associations and several research organizations are members – representing more than 20 countries.

More information can be found at www.emva.org.

Preview

The 3rd European Machine Vision Forum will be held on **September 5-7, 2018**.

Sponsor

The 2nd European Machine Vision Forum is kindly supported by the AIT Austrian Institute of Technology in Vienna, Austria, the Heidelberg Collaboratory for Image Processing (HCI), Heidelberg University, Germany, and Edmund Optics.



Venue

AIT Austrian Institute of Technology
Tech Gate Vienna
Donau-City-Straße 1
1220 Vienna / Austria

Registration online at www.emva-forum.org

Deadlines for contributions

Contributed talks: **June 2, 2017**
Poster and software demo: **August 11, 2017**

Attendance fees (before July 14, 2017 / after)

Industry / commercial research institutes:
490,00 EUR / 590,00 EUR

EMVA members (industry): 350,00 EUR / 450,00 EUR

Members from university or nonprofit research organizations:
350,00 EUR / 450,00 EUR

EMVA members (university / nonprofit research organizations):
290,00 EUR / 390,00 EUR

Students (up to PhD students, with student card):
190,00 EUR / 240,00 EUR

(fees except VAT)

Accommodation

Hotel recommendations can be found at www.emva-forum.org. Accommodation has to be organized and paid by the attendee herself/himself.

Cancellation

Free cancellation of registration is possible only in early bird period (before July 14, 2017) with full refund. 50% of the participation fee will be reimbursed if cancellation is made before August 11, 2017. Afterwards, no refund is possible. In all cases a replacement person can be named.

Event Organization



Verlag & Studio

AEON Verlag & Studio
GmbH & Co. KG
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2nd European Machine Vision Forum 2



emva
european machine vision association



Next Generation Vision Systems for Industry

*computational imaging,
machine learning and more*

Vienna

September 6-8, 2017



The European Machine Vision Forum

Aim

The European Machine Vision Forum is a new annual two-day event of the European Machine Vision Association (EMVA). The aim is to foster interaction between the machine vision industry and academic research to learn from each other, discuss the newest research results relevant for industry as well as problems from applications, learn about emerging application fields, and to discuss research cooperation between industry and academic institutes. The overall aim is to accelerate innovation by translating new research results faster into practice.

The venue for the annual event changes every year to a different location in line with the selected focal topic of the respective forum. In this way, participants get the benefit of becoming acquainted with major research and industrial centers in machine vision throughout Europe.

Who should attend

The forum is directed at scientists, development engineers, software and hardware engineers, and programmers both from research and industry.

Elements of the forum

- Plenary sessions** with contributed and invited talks, each of them carefully selected, presenting a broad variety of a focused topic of the forum.
- Extended coffee and lunch breaks and evening sessions for networking**, poster presentations as well as software and hardware demonstrations with ample room for discussions in small groups. **Each participant can submit posters and demos free of charge** (see registration form).
- Poster and demo teasers**: Each presenter has one slide and two minutes (max) to introduce her/his presentation.

Each participant will receive a certificate of her/his participation detailing the programme. All talks will be recorded and participants will receive links to the recorded material in the form of interactive online applications without additional charge. Non-participants can buy individual talks for e-learning.

Focal topic

The second European Machine Vision Forum focuses on the next generation of vision systems for industry. These may include novel modes of image acquisition, new hardware platforms, and advanced algorithms in order to solve more complex tasks with less effort.

Programme

Wednesday, September 6, 2017

- 18:00 **Welcome and introduction**
Jochem Herrmann, *President EMVA*
Bernd Jähne, *Chair*
- 18:15 **Panel discussion on „Next Generation Vision Systems“**
Stefan Schönegger, *CMO Bernecker + Rainer Industry Electronics, Eggelsberg (Austria)*
Dr. Dietmar Ley, *CEO Basler AG, Ahrensburg (Germany)*
Dr. Wolfgang Eckstein, *MVTec, Munich (Germany)*
Jochem Herrmann, *Chief Scientist Adimec (The Netherlands) & President of EMVA*
Prof. Dr. Jürgen Beyerer, *Fraunhofer IOSB, Karlsruhe (Germany)*
Prof. Dr. Horst Bischof, *TU Graz (Austria)*
Andreas Vrabl, *Head of Center for Vision, Automation & Control, AIT, Vienna (Austria)*
- 19:30 **Evening get together with finger food and networking**

Thursday, September 7, 2017

- 08:00 **Registration open**
- 08:45 **Welcome from local host**
Andreas Vrabl, *HoC for Vision, Automation & Control, AIT, Vienna, Austria*
- Session I: Novel Image Acquisition Techniques and Computational Imaging**
- 09:00 **Image sensors for next generation vision systems?**
Prof. Dr. Albert J. P. Theuwissen, *Harvest Imaging, Belgium*
- 09:40 **Cognitive sensors for nondestructive monitoring along the product life cycle**
Prof. Dr. Randolph Hanke, *Fraunhofer Development Center for X-Ray Technology, Fürth, Germany*
- 10:20 **Coffee break / exhibition / posters & demos**
- 11:00 **Hybrid depth sensing using high-speed multi-line scan technology**
Dr. Svorad Stolc, *High Performance Image Processing, AIT, Austria*
- 11:40 **Two contributed talks (15 min. + 5 min. discussion each)**
- 12:20 **Poster & demo teasers to Session I**
- 12:30 **Lunch break / exhibition / posters & demos**

Session II: Platforms, Programming, Integration (Industry 4.0)

- 14:00 **Addressing the challenges of high performance low power real-time computer vision systems with the TULIPP platform**
Ben Rodriguez, *HIPPEROS and Université Libre de Bruxelles, Belgium*
- 14:40 **Two contributed talks (15 min. + 5 min. discussion each)**
- 15:20 **Coffee break / exhibition / posters & demos**
- 16:00 **Manycore embedded processors for portable, optimized and power-efficient processing of methods for vision algorithms**
Prof. Dr. Jean-François Nezan, *INSA, Université de Rennes, France*
- 16:40 **Two contributed talks (15 min. + 5 min. discussion each)**
- 17:20 **Poster & demo teasers to Session II**
- 17:30 **Evening get together with fingerfood / exhibition / posters & demos**

Friday, September 8, 2017

Session III: Image Processing Algorithms and Machine Learning

- 09:00 **Industrial hyperspectral imaging**
Dr. Martin Burgstaller, *technical CEO Perception Park, Graz, Austria*
- 09:40 **Two contributed talks (15 min. + 5 min. discussion each)**
- 10:20 **Coffee break / exhibition / posters & demos**
- 11:00 **Deep learning: Success stories, open challenges and future outlook**
Prof. Sergios Theodoridis, *University of Athens, Greece, and Soterios Chatzis, Cyprus University of Technology, Cyprus*
- 11:40 **Two contributed talks (15 min. + 5 min. discussion each)**
- 12:20 **Poster & demo teasers to Session III**
- 12:30 **Closing, announcement of location and focal topic of the 3rd European Machine Vision Forum in 2018**
- 12:40 **Farewell lunch / exhibition / posters & demos (end at approx. 14:00 h)**