



AGE: 25 - 35
MALE: 100 %
EYES OPEN: 100 %
EYEGLASSES: TRUE

JOINT ARW & OAGM WORKSHOP 2019

Mai 09 - 10, 2019

University of Applied Sciences Upper Austria -
Campus Steyr

Wehrgrabengasse 1-3, 4400 Steyr (AT)

www.roboticsworkshop.at

<https://workshops.aapr.at>

ARW & OAGM Joint Workshop 2019

The ARW and OAGM Joint Workshop on „Vision and Robotics“ aims to bring together researchers, students, professionals and practitioners from both research directions to discuss new and emerging technologies, challenges and its applications.

The programme includes four invited talks, oral and poster presentations of reviewed contributions in plenum and parallel sessions. This will provide opportunities to share ideas and discuss technical details. The call for papers resulted in 30 accepted full papers and 18 posters in two tracks.

CONFERENCE CHAIRS

Markus Vincze, TU Vienna

ARW Chair

Andreas Pichler, PROFACTOR

ARW Chair

Robert Sablatnig, TU Vienna

OAGM Chair

Peter M. Roth, TU Graz

OAGM Chair

Gernot Stübl, PROFACTOR

OAGM Chair

PROGRAM

Thursday,
May 09, 2019

08:30 Registration

09:00 Opening, welcome & agenda
Andreas Pichler, PROFACTOR | Alexander Pogany, bmvit

09:15 Visual Tracking of Fast Moving Objects
Jifí Matas, Center for Machine Perception, Czech Technical University of Prague Invited

10:00 Automation Experience: An Experience Centered View into Automated Contexts
Manfred Tscheligi, Austrian Institute of Technology & University of Salzburg Invited

10:45 Action Selection for Interactive Object Segmentation in Clutter
Timothy Patten, Michael Zillich and Markus Vincze

11:05 3D Pose Estimation from Color Images without Manual Annotations
Mahdi Rad, Markus Oberweger and Vincent Lepetit

11:25 Intuitive Human Machine Interaction based on Multimodal Command Fusion and Interpretation
Leopold Hiesmair, Matthias Plasch, Helmut Nöhmayer and Andreas Pichler

11:45 On the Use of Artificially Degraded Manuscripts for Quality Assessment of Readability Enhancement Methods
Simon Brenner and Robert Sablatnig

12:05 Poster presentation

12:20 Networking & Poster Session

13:20 Parallel Session I

Austrian Robotics Workshop	OAGM
Using High-Level Features and Neglecting Low-Level Features: Application Self-Localization <i>Felix König and Markus Bader</i>	vislvis - Evaluation of Vision based Visibility Measurement <i>Harald Ganster, Martina Uray, Jean-Philippe Andreu and Jürgen Lang</i>
Safety of Mobile Robot Systems in Industrial Applications <i>Alexandra Markis, Maximilian Papa, David Kaselautzke, Michael Rathmair, Vinzenz Sattinger and Mathias Brandstötter</i>	Efficient Multi-Task Learning of Semantic Segmentation and Disparity Estimation <i>Robert Harb and Patrick Knöbelreiter</i>
Independent Offset Wheel Steering: An Improved Approach to Wheeled Mobile Robot Locomotion <i>Firat Berk Cakar, Eugen Kaltenegger, George Todoran and Markus Bader</i>	6D Object Pose Verification via Confidence-based Monte Carlo Tree Search and Constrained Physics Simulation <i>Dominik Bauer, Timothy Patten and Markus Vincze</i>
An Autonomous Mobile Handling Robot Using Object Recognition <i>Johannes Rauer, Wilfried Wöber and Mohamed Aburaia</i>	Quantile filters for multivariate images <i>Martin Welk</i>

14:40 Networking & Poster Session

15:40 Parallel Session II

Austrian Robotics Workshop	OAGM
Dynamic parameter identification of the Universal Robots UR5 <i>Nemanja Kovincic, Andreas Müller, Hubert Gattringer, Matthias Weyrer, Andreas Schlotzhauer and Mathias Brandstötter</i>	Motion Artefact Compensation for Multi-Line Scan Imaging <i>Nicole Brosch, Svorad Stolc, Simon Breuss and Doris Antensteiner</i>
Machine Vision for Embedded Devices: from Synthetic Object Detection to Pyramidal Stereo Matching <i>Daniele Evangelista, Marco Imperoli, Alberto Pretto and Emanuele Menegatti</i>	A Research Project on Forensic Footwear Impression Retrieval <i>Manuel Keglevic and Robert Sablatnig</i>
Towards a flexible industrial robot system architecture <i>Raimund Edlinger, Roman Froschauer, Michael Zauner and Lydia Leimer</i>	Machine Vision Solution for a Turnout Tamping Assistance System <i>Gerald Zauner, Tobias Mueller, Andreas Theiss, Martin Buerger and Florian Auer</i>
Flexible industrial mobile manipulation: a software perspective <i>Benjamin Breiling, Thomas Haspl, Bernhard Dieber, Marc Pichler and Guido Breitenhuber</i>	Longitudinal Finger Rotation in Vein Recognition - Deformation Detection and Correction <i>Bernhard Prommegger, Christoph Kauba and Andreas Uhl</i>

17:00 Closing of Thursday

17:10 GMAR General Assembly **OAGM General Assembly**
Room: HS Zumtobel Room: SR TGW

19:30 Dinner at the restaurant „Orangerie“

PROGRAM

Friday,
May 10, 2019

09:00	Opening, welcome & agenda Markus Vincze, TU Vienna	
09:15	Computer Vision for Complex Activities Horst Bischof, Graz University of Technology	Invited
10:00	Automation Experience: An Experience Centered View into Automated Contexts Alin Albu-Schäffer, German Aerospace Center (DLR)	Invited
10:45	Poster presentation	
11:00	Parallel Session	
	Austrian Robotics Workshop	OAGM
	HolisafeHRC: Holistic Safety Concepts in Human-Robot Collaboration <i>Naresh Chowdary Chitturi, Markus Ganglbauer, Matthias Plasch, Pavel Kulha and Andreas Pichler</i>	Learning from the Truth: Fully Automatic Ground Truth Generation for Training of Medical Deep Learning Networks <i>Christina Gsaxner, Peter M. Roth, Jürgen Wallner and Jan Egger</i>
	RNN-based Human Pose Prediction for Human-Robot Interaction <i>Chris Torkar, Saeed Yahyanejad, Horst Pichler, Bernhard Rinner and Michael Hofbauer</i>	PRNU-based Finger Vein Sensor Identification in the Presence of Presentation Attack Data <i>Babak Maser, Dominik Söllinger and Andreas Uhl</i>
	Adaptive Loading Station for High-Mix Production Systems <i>Alexander Raschendorfer, Michael Hofmann and Florian Pauker</i>	GMM Interpolation for Blood Cell Cluster Alignment in Childhood Leukaemia <i>Roxane Licandro, Konstantin Miloserdov, Michael Reiter and Martin Kampel</i>
12:15	Networking & Poster Session	
13:15	Detecting Out-of-Distribution Traffic Signs Madhav Iyengar, Michael Opitz and Horst Bischof	
13:25	Workflow-based programming of human-robot interaction for collaborative assembly stations Roman Froschauer and Rene Lindorfer	
13:45	The Quest for the Golden Activation Function Mina Basirat, Alexandra Jammer and Peter M. Roth	
14:05	A Dynamical System for Governing Continuous, Sequential and Reactive Behaviors Raphael Deimel	
14:25	Best Paper and Poster Award, Closing	

ADMINISTRATIVE AND GENERAL INFORMATION

Registration and Fees

Information on registration is available on the [conference website](#).

Register [online](#).

Registration fees and included services (Price in EUR excl. 20% VAT)	Early Registration until: April 28, 2019	Late Registration until: May 08, 2019	Accommodation	Car parking fee	ARW & OAGM 2019 Thu: May 09, 2019 08:30 – 22:00 (incl. Dinner)	ARW & OAGM 2019 Fri: May 10, 2019 08:30 – 15:00 (incl. Lunch)
Conference fee regular	300,-	350,-	-	-	☒	☒
Conference fee student	100,-	100,-	-	-	☒	☒
GMAR/OAGM Members	270,-	350,-	-	-	☒	☒

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