

OAGM/ARW 2017

Program (final)

Wednesday, 10.5.2017

10:00	Registration		Foyer
Opening ARW / Keynote Session Chair: Andreas Müller (JKU Linz)			
	Speaker	Talk	Room
11:00	Harold Artes (robart GmbH)	Our future with consumer robotics and what we can do to make it happen	Festsaal
12:00	Markus Vincze	Potentialstudie Robotik in Österreich	Festsaal
12:30	Lunch		Foyer
Session Chair: Gerald Steinbauer (TU Graz)			
	Speaker	Talk	Room
13:45	A1 Michael Pieber and Johannes Gerstmayer	A framework for cellular robots with tetrahedral structure	Festsaal
14:05	A2 Jesus Pestana, Michael Maurer, Daniel Muschick, Devesh Adlakha, Horst Bischof and Friedrich Fraundorfer	Package Delivery Experiments with a Camera Drone	Festsaal
14:25	A3 Stefan Loigge, Clemens Mühlbacher, Gerald Steinbauer, Stephan Gspandl and Michael Reip	A Model-Based Fault Detection; Diagnosis and Repair for Autonomous Robotics systems	Festsaal
14:45	A4 Stefan Gadringer, Christoph Stöger and Florian Hammer	Visual Localization System for Agricultural Vehicles in GPS-Obstructed Environments	Festsaal
15:05	Coffee		Foyer
Poster/Industrial Spotlight Session Chair: Wilfried Kubinger (FH Technikum Wien)			
	Speaker	Talk	Room
15:35	B1 Clemens Sulz and Markus Trenker	Development of a fully automated tuning system for organ pipes	Festsaal
15:40	B2 Thomas Haspl, Claudio Capovilla, Alfred Rinnhofer, Victor J Exposito Jimenez, Stefan Maier, Matthias Völk, Manfred Zarnhofer, Robert A. Jöbstl, Erhard Pretterhofer, Bernhard Dieber and Herwig Zeiner	RobWood - Smart Robotics for Wood Industry	Festsaal
15:45	B3 Alexander Pagonis, Clemens Mühlbacher, Gerald Steinbauer, Stephan Gspandl and Michael Reip	Task-Dependent Configuration of Robotics Systems	Festsaal
15:50	B4 Konstantin Lassnig, Clemens Mühlbacher, Gerald Steinbauer, Stephan Gspandl and Michael Reip	An Autonomous Transportation Robot for Urban Environments	Festsaal
15:55	B5 Markus Ikeda, Gerhard Ebenhofer, Jürgen Minichberger, Andreas Pichler, Andreas Huber, Astrid Weiss and Gerald Fritz	User Centered Assistive Robotics for Production - Human Robot Interaction Concepts in the AssistMe project	Festsaal
16:00	B6 Marcel Zeilinger, Raphael Hauk, Markus Bader and Alexander Hofmann	Design of an Autonomous Race Car for the Formula Student Driverless (FSD)	Festsaal
16:05	B7 Florian Fuchslocher, Martin Rambausek, Wilfried Kubinger and Bernhard Peschak	Concept and implementation of a tele-operated robot for ELROB 2016	Festsaal
16:10	B8 Marco Wallner, Clemens Mühlbacher, Gerald Steinbauer, Sarah Haas, Thomas Ulz and Jakob Ludwig	A Robust and Flexible Software Architecture for Autonomous Robots in the Context of Industrie 4.0	Festsaal
16:15	Poster demonstrations		Festsaal
17:00	Mitgliederversammlung des IEEE RAS Austria Chapter		tbd.

Thursday, 11.5.2017

08:00	Registration		Foyer
Keynote Session Chair: Markus Vincze (TU Wien)			
	Speaker	Talk	Room
09:00	Pedro Sanz (Universitat Jaume)	Recent Achievements in Underwater Intervention Systems: the Role of Perception & Robotic Manipulation	Festsaal
10:00	Coffee		Foyer
Session Chair: Mathias Brandstötter (JR Robotics)			
	Speaker	Talk	Room
10:30	C1 Georg Halmetschlager-Funek, Markus Suchi, Martin Kampel and Markus Vincze	Xtion's Gone! What's Next? An Evaluation of Eight Different Depth Sensors for Robotic Systems	Festsaal
10:50	C2 Justinas Miseikis, Matthias Rüther, Bernhard Walzel, Mario Hirz and Helmut Brunner	3D Vision Guided Robotic Charging Station for Electric and Plug-in Hybrid Vehicles	Festsaal
11:10	C3 Thomas Varhegyi, Martin Melik-Merkumians, Michael Steinegger, Georg Halmetschlager-Funek and Georg Schitter	A Visual Servoing Approach of a Six Degrees-of-Freedom Industrial Robot by RGB-D Sensing	Festsaal
11:30	C4 Inka Brijacak, Saeed Yahyanejad, Bernhard Reiterer and Michael Hofbaur	Toward Safe Perception in Human-Robot Interaction	Festsaal
11:50	Lunch		Foyer
Opening OAGM / Keynote Session Chair: Peter M. Roth (TU Graz)			
	Speaker	Talk	Room
13:00	Daniel Cremers (TU München)	Dense & Direct Methods for 3D Reconstruction & Visual SLAM	Festsaal
Session Chair: Martin Welk (UMIT)			
	Speaker	Talk	Room
14:00	D1 Kiru Park, Johann Frankl, Michael Zillich and Markus Vincze	Pose Estimation of Similar Shape Objects using Convolutional Neural Network trained by Synthetic data	Festsaal
14:20	D2 Lukas Knoch and Mathias Lux	Confusing Similarity between Visual Trademarks: A Dataset Based on USPTAB Examinations	Festsaal
14:40	D3 Markus Oberweger, Vincent Lepetit, Paul Wohlhart and Gernot Riegler	Feedback Loop and Accurate Training Data for 3D Hand Pose Estimation	Festsaal
Coffee + Poster Session Chair: Robert Sablatnig (TU Wien)			
15:00	E1 Dmytro Kotsur, Rudolf Leube, Reinhard Windoffer and Julian Mattes	Active contour models for individual keratin filament tracking	Festsaal
15:00	E2 Peter Henoekcl	Reading of an Analog Liquid Level Gauge on an Oil Platform with a Mobile Robot using 2-D Images	Festsaal
15:00	E3 Gernot Stuebl, Thomas Poenitz, Harald Bauer and Andreas Pichler	Novel Human Machine Interaction with Sticky Notes for Industrial Production	Festsaal
15:00	E4 Simon Brenner, Sebastian Zambanini and Robert Sablatnig	Image Registration and Object Detection for Assessing Unexploded Ordnance Risks - A Status Report of the DeVisOR Project	Festsaal
15:00	E5 Manuel Keglevic and Robert Sablatnig	FORMS - Forensic Marks Search	Festsaal
15:00	E6 Xiaoying Tan, Volkmar Wieser, Stefan Lustig and Bernhard A. Moser	Riemannian Manifold Approach to Scheimpflug Camera Calibration for Embedded Laser-Camera Application	Festsaal
Session Chair: Mathias Lux (AAU Klagenfurt)			
	Speaker	Talk	Room
16:00	F1 Gernot Stuebl, Christoph Heindl, Harald Bauer and Andreas Pichler	On Quality Assurance of 3D Bust Reconstructions	Festsaal
16:20	F2 Malte Philip Jaschik, Alfred Rinnhofer and Martina Uray	An Image Analysis System for selective recovery of non-ferrous metal	Festsaal
16:40	F3 Daniel Gruber, Harald Ganster and Robert Tanzer	Automated Quality Assessment of Remelted Steel Ingots	Festsaal
17:00	F4 Andreas Schönfelder, Roland Perko, Karlheinz Gutjahr and Mathias Schardt	Fusion of Point Clouds derived from Aerial Images	Festsaal
17:30	OAGM General Assembly		tbd.
Social Event			
19:00	Conference dinner		Heuriger Maly, Sandgasse 8, 1190 Wien

Friday, 12.5.2017

Session Chair: Harald Ganster (Joanneum Research)			
	Speaker	Talk	Room
09:00	G1 Martin Welk	Superresolution Alignment with Innocence Assumption: Towards a Fair Quality Measurement for Blind Deconvolution	Festsaal
09:20	G2 Thomas Neff, Christian Payer, Darko Štern and Martin Urschler	Generative Adversarial Network based Synthesis for Supervised Medical Image Segmentation	Festsaal
09:40	G3 Thomas Pinetz, Daniel Soukup, Reinhold Huber-Mörk and Robert Sablatnig	Using a U-Shaped Neural Network for minutiae extraction trained from refined, synthetic fingerprints	Festsaal
10:00	G4 Dominik Hirner, Svorad Stolic and Thomas Pock	Photometric Stereo in Multi-Line Scan Framework under Complex Illumination via Simulation and Learning	Festsaal
10:30	Coffee		Foyer
Session Chair: Svorad Stolic (AIT)			
	Speaker	Talk	Room
11:00	H1 Anil Armagan, Martin Hirzer, Peter M. Roth and Vincent Lepetit	3D Localization in Urban Environments from Single Images	Festsaal
11:20	H2 Thomas Rittler, Matej Neveda, Florian Seitner and Margrit Gelautz	Depth-guided Disocclusion Inpainting for Novel View Synthesis	Festsaal
11:40	H3 Manfred Klopschitz, Gerald Lodron, Gerhard Paar and Niko Benjamin Huber	Line Processes for Highly Accurate Geometric Camera Calibration	Festsaal
12:00	H4 Simon Schreiberhuber, Thomas Mörwald and Markus Vincze	2.5D Plane Segmentation done quick: An analysis of the Bilateral Tangential Filter	Festsaal
12:30	Markus Vincze (TU Wien)		Closing ceremony