

# Austrian Robotics Workshop 2013



## Program

FH Technikum Wien

Thursday, May, 23rd				
23.05.2013 Session Chair: Willfried Kubinger				
	Speaker	Talk	Room	
09:00		FH Technikum Wien	Opening	F0.02
09:15	A1	Branislav Borovac	Invited Talk	F0.02
10:00	A2	Georg Nawratil	Generalizing the Control Number for 6-dof UCU Hexapods with classic or eccentric U-joints	F0.02
10:20	A3	Matthias Oberherber, Hubert Gattringer and Klemens Springer	A Time Optimal Solution for the Waiter Motion Problem with an Industrial Robot	F0.02
10:40		Coffee		F0.01
Session Chair: Martin Kandlhofer				
11:10	B1	Martin Schenk/taurob GmbH	Overturn Prevention of a Mobile Robot with a Multi-DoF Arm	F0.02
11:30	B2	Johannes Karl Eberharter and Gerhard Kaufmann	Workspace Analysis of Cooperating Large Scale Manipulators	F0.02
11:50	B3	F. Johannes Kilian, Hubert Gattringer, Klemens Springer and Hartmut Bremer	Design, Modeling and Control of a Self-Balancing Two-Wheeled Vehicle	F0.02
12:10		Lunch		Mensa
Session Chair: Alexander Hofmann				
13:45	C1	Martin Kohlmaier/ABB AG	Trends and Innovations from ABB Robotics	F0.02
14:05	C2	Renato Vidoni, Tanja Mimmo and Camilla Pandolfi	From tendrils to robots: kinematic study for a bio-inspired grasping system	F0.02
14:25	C3	Peter Schüller, Volkan Patoglu and Esra Erdem	Levels of Integration between Low-Level Reasoning and Task Planning	F0.02
14:45	C4	Martin Saxinger, Peter Gruber and Johannes Gerstmayr	HOTINT - a Free Flexible Multibody System Simulator for Robotics Applications	F0.02
15:05		Coffee		F0.01
Session Chair: Gerald Steinbauer				
15:35	D1	Clemens Mühlbacher, Gerald Steinbauer, Michael Reip and Stephan Gspandl	Improving the ROS Arm Navigation Stack by Using Stochastic Inverse Kinematics	F0.02
15:45	D2	Johann Eck, Sabine Hirschmugl-Gaisch, Alexander Hofmann, Martin Kandlhofer, Sabrina Rubenzer and Gerald Steinbauer	Innovative concepts in educational robotics: Robotics projects for kindergartens in Austria	F0.02
15:55	D3	Richard Wagner, Peter Wolff, Klaus Schäffer and Friedrich Praus	Ambient Assitive Technologies: The mobile robot P3AAT	F0.02
16:05	D4	Luis Mateos	In-pipe Cleaning Mechanical System for DeWaLoP -Developing Water Loss Prevention	F0.02
16:15	D5	Safdar Zaman and Gerald Steinbauer	Automatic Modeling and Observers Generation for Model-Based Diagnosis System for ROS-Based Robotic Systems	F0.02
16:25	D6	Mario Grotschar and Clemens Doppler	A ROS and Aria based framework for didactical analysis of behavioral control in mobile Robotics	F0.02
16:35	D7	Georg Richter, Madeleine Redl, Dawn Alolino, Sandra Dertnig and Alexander Hofmann	RoboCupJunior Soccer Demo League	F0.02
<b>18:30 ABB Social Dinner @ MartinSepp</b> <a href="http://www.zummartinsepp.at/">http://www.zummartinsepp.at/</a>				
Friday, May, 24th				
24.05.2013 Session Chair: Michael Zillich				
	Speaker	Talk	Room	
09:00	E1	Daniele Nardi	Invited Talk	F0.02
09:45	E2	Paolo Boscariol, Andrea Gasparella, Alessandro Gasparetto, Nicola Lever, Dario Richiede, Alberto Trevisani and Renato Vidoni	Energy Efficiency and smoothness in robotics trajectory planning: numerical simulation and comparison	F0.02
10:05	E3	Thomas Raukamp, Klemens Springer and Hubert Gattringer	Optimal Path-Planning in the Special Case of Ball Throwing Using an Industrial Robot	F0.02
10:25		Coffee		F0.01
Session Chair: Friedrich Praus				
10:55	F1	Ronald Naderer / FerRobotics Compliant Robot Technology GmbH	Robot Handcraft (R) - Robotisation of manual work	F0.02
11:15	F2	Martijn Rooker, Alfred Angerer, Frank Wallhoff, Jürgen Blume, Alexander Bannat, Paolo Ferrara, Aitor Olarra, Janne Kiirikki and Andreas Pichler	Flexible Assistance System for Packaging Electronic Consumer Goods using Industrial Robots	F0.02
11:35	F3	Michael Zillich, Walter Wohlkinger and Wendelin Feiten	Making Service Robots Safer - Affordable Tactile Sensing for Large Surface Areas	F0.02
11:55		End		
13:00		RAS Business Meeting		SEM_F4.27