



## Agenda for the ICRA 2012 Workshop “Industry-Academia collaboration in the ECHORD project: a bridge for European robotics innovation”

Friday 18th May 2012 - full day workshop

Meeting Rooms 1 thru 9 (specified later), River Centre Convention Center, St. Paul – Minnesota – USA

Part 1: presentation session (scientific innovations, future impact and possible new applications)		
8:40-8:50	Bruno Siciliano (ECHORD)	Welcoming notes and ECHORD experiment overview
8:50-9:10	Christophe Simler (ECHORD)	Overview of upcoming scientific robotic trends and emerging applications
9:10-9:40	Aude Billard (Invited)	Programming by demonstration - an inherently bidirectional process
9:40-10:00	Alberto Tellaecche (EasyPro)	Accurate manual guided robot programming and trajectory correction using 3D vision by laser triangulation
10:00-10:30	Coffee break	
10:30-10:50	Luca Bascetta (FIDELIO)	Towards an industrial implementation of the walk-through programming technique for robotic manipulators
10:50-11:10	Martin L. Felis (GOP)	Generation of optimal trajectories for industrial robots - a test case manipulating a glass of water at high velocities
11:10-11:30	Volker Helm (dimRob)	Mobile Robotics on Construction Sites: Dimensional Tolerance Handling
11:30-11:50	Volker Krüger (GISA)	Using Human Gestures and Generic Skills to Instruct a Mobile Robot Arm in a Feeder Filling Scenario
11:50-13:30	Lunch break	
13:30-14:00	Jean-Paul Laumond (Invited)	Underactuation and redundancy in anthropomorphic action
14:00-14:20	D.K. Liu	Assistive Robots for Grit-Blasting in SteelBridge Maintenance: Technological Progress and Innovation
14:20-14:40	Olivier Birbach	Grab a Mug – Grasp Motion Planning with the Nao Robot
14:40-15:00	Roland Behrens	A new cable-driven robotic arm for flexible and mobile applications
15:00-15:20	Shaun Edwards	ROS-Industrial – Applying the Robot Operating System (ROS) to Industrial Applications
15:20-16:00	Break	
16:00-16:30	Coffee break	
Part 2: discussion session (scientific innovations, future trends and new applications, limitations and possible improvements, safety concepts, knowledge transfer)		
16:30-17:30	Discussion	Main topics: automatic motion planning/control and human robot interaction/cognition