Dagstuhl Seminar "Robots Learning from Experiences" 17.- 21.2.2014

(Draft of 15.2.2014)

	Monday		Tuesday		Wednesday		Thursday		Friday
08:45	Organizers, all	Opening, short presentations	Luc De Raedt KU Leuven	Statistical Relational Learning for Robotics and Computer Vision	Ivan Bratko Univ. of Ljubljana	Discovery of Abstract Notions by a Robot	Carme Torras UPC – Barcelona	Robot manipulation in human environments: Challenges for learning	Discussion Springer Book
09:15	Bernd Neumann Univ. of Hamburg	Introduction to seminar topic			Krishna Sandeep Reddy Dubba Univ. of Leeds	Scene layout conceptualization and recognition using graphs			
09:45	Coffee								
10:15	Michael Beetz Univ. of Bremen	Experience-based Learning for Bayesian Cognitive Robotics	Michael Zillich TU Wien	Project report STRANDS	Martin Günther Univ. of Osnabrück	Context-aware semantic object mapping for plan execution	Manfred Hild HU Berlin	Self-Exploration of Autonomo	Reports from discussion groups
10:45			Norbert Krüger Univ. of S. Denmark	Project report XPERIENCE	Vaclav (Vasek) Hlavac Czech TU in Prague	Dual-arm manipulation with clothes, lessons from CloPeMa project.	Sebastian Stock Univ. of Osnabrück	Towards an integrated hierarchical planner for complex robot tasks	
11:15	Pierre-Yves Oudeyer INRIA – Bordeaux	Developmental robotics: lifelong learning and the morphogenesis of developmental structures	Jianwei Zhang Univ. of Hamburg	Project Report RACE	Laurent Orseau AgroParisTech – Paris	Beyond the traditional agency framework	Sebastian Rockel Univ. of Hamburg	Beyond state-of-the-art Planning: A Survey of Imaginary Planning	
11:45			Federico Pecora Univ. of Orebro	Reasoning about Learned Knowledge for Robots: the Next Big Challenge for AI?	All	Collecting discussion topics	Muralikrishna Sridhar Continental, Lindau	Scene Understanding from Videos	Wrapping up by organizers
12:15	Lunch								
14:00	Luc Steels Free Univ. of Brussels	Robot tutoring	Marek S. Kopicki Univ. of Birmingham	Learning to generalise grasps to novel objects	Excursion, hike		Discussion groups		Departure
14:30	Richard Bowden Univ. of Surrey	Learning by Imitation	Lorenzo Jamone TU Lisboa	Autonomous Online Learning of Sensori-Motor Internal Models in Humanoid Robots					
15:00	Ales Leonardis Univ. of Birmingham	Compositional hierarchies for learning visual representations and building knowledge from experience	Sven Behnke Univ. of Bonn	Manipulation Skill Learning for Cognitive Service Robots					
15:30	Coffee								
16:00	Ralf Möller TU Hamburg-Harburg	Location Prediction Based on Mobility Patterns in Location Histories	Alexandre Bernardino TU Lisboa	Co-Development of Visuo-Motor Structures			Discussion groups		
16:30	Francois Bremont INRIA - Sophia Antipolis	Scene understanding for Activity Monitoring	Jure Zabkar Univ. of Ljubljana	Sensorimotor memory: the representation, learning and inference					
17:00	Luis Seabra Lopes Univ. of Aveiro	Conceptualization of objects and activities for open-ended learning in robotics	Emre Ugur Univ. of Innsbruck	Skill development through affordance-based bootstrapping					
17:30	All	Collecting discussion topics	All	Collecting discussion topics					
18:00	Dinner								