Hanse Wissenschaftskolleg

5TH EUROPEAN NEURO-IT and Neuroengineering School

- Cognition & Action -

Delmenhorst, **July 15 – 21, 2007**

Organizers

Prof. Dr. med. Andreas K. Engel
University Medical Center Hamburg-Eppendorf

Prof. Dr. Alois Knoll Technical University of München

Prof. Dr. Rolf Pfeifer University Zürich

Sponsored by

EU-Network euCognition EU-Network NEURO-iT



Lehmkuhlenbusch 4 27753 Delmenhorst

Sunday, July 15

18:30		Reception and Icebreaker	
20:00 – 21:30	Pfeifer	Opening Lecture: Morphological computation – connecting brain, body, and environment	

Monday, July 16		
09:00 - 09:30		"Datablitz"-Session
09:30 – 09:30 09:30 – 10:30	Averbeck	
09.30 – 10.30	Averbeck	Activity in prefrontal cortex during dynamic selection of action sequences
10:30 - 11:00		Coffee break / Posters
11:00 - 12:00	Körding	Normative models in motor control
12:00 – 13:30		Lunch
13:30 - 14:30	Schwartz	Useful signals from motor cortex
<i>14:30 – 15:00</i>		Coffee break / Posters
15:00 - 17:00	Averbeck (I)	Probabilistic representations in cortex
15:00 - 17:00	Körding (II)	Normative models in neuroscience
15:00 - 17:00	Schwartz (III)	Behavior as motor output
17:00 - 18:00		Posters
18:00 - 19:00		Evening Discussion
19:30 - 21:00		Dinner at the City Hotel
21:00		Bowling at Jutebowl

Tuesday, July 17		
09:00 - 09:30		"Datablitz"-Session
09:30 - 10:30	König	Information foraging and overt attention
<i>10:30 – 11:00</i>		Coffee break / Posters
11:00 – 12:00	Bar-Gad	Stimulating the brain: the neglected part of neural interfaces
<i>12:00 – 13:30</i>		Lunch
13:30 – 14:30	Goebel	BOLD communications and neurofeedback
<i>14:30 – 15:00</i>		Coffee break / Posters
15:00 – 17:00	König (I)	Understanding receptive fields
15:00 – 17:00	Bar-Gad (II)	Mechanisms of deep brain stimulation

15:00 – 17:00	Goebel (III)	Real-time fMRI: Principles, possibilities and limitations
17:00 - 18:00		Posters
18:00 – 19:00		Evening Discussion
19:00 – 20:00		Dinner
20:00		Sports: soccer, table tennis, volleyball

Wednesday, July 18			
09:30 – 10:30	Dario	Gesture and Facial Expressions for Emotional Human-Robot Interaction	
10:30 - 11:00		Coffee break	
11:00 - 12:00	Scherberger	Hand grasping activity in premotor and parietal cortex	
<i>12:00 – 13:30</i>		Lunch	
13:30 – 14:30	Findlay	Eye movements and visual search	
14:30 – 16:30	Dario (I)	Gesture and Facial Expressions for Emotional Human-Robot Interaction	
14:30 – 16:30	Scherberger (II)	Cortical motor planning	
14:30 – 16:30	Findlay (III)	Eye movements and visual search	
16:30		Departure to Bad Zwischenahn Boattrip to Dreibergen and Dinner at the restaurant Fährkroog	
18:30 - 19:30		Evening Discussion (at the restaurant)	
19:30		Dinner at the restaurant Fährkroog	
22:00		Return to the Hotel	

Thursday, July 19		
09:00 - 09:30		"Datablitz"-Session
09:30 – 10:30	Dautenhahn	Challenges in Human-Robot Interaction: Socially Assistive Robots
10:30 - 11:00		Coffee break / Posters
11:00 - 12:00	Ziemke	On the role of emotion in embodied cognition
12:00 – 13:30		Lunch
13:30 – 14:30	Ijspeert	Control of locomotion: from biology to robotics and back
<i>14:30 – 15:00</i>		Coffee break / Posters
15:00 – 17:00	Dautenhahn (I)	Companions, Friends, Tools or Toys? – Roles of Robots in Human Society

19:00 – 20:00			Dinner
18:00 - 19:00			Evening Discussion
17:00 - 18:00			Posters
15:00 – 17:00	Ijspeert	(III)	Locomotion control in animals and robots
15:00 - 17:00	Ziemke	(II)	Do robots need emotions?

Friday, July 20		
09:30 – 10:30	di Paolo	Evolutionary robotics: A tool for thinking about autonomy, agency and social interaction
<i>10:30 – 11:00</i>		Coffee break
11:00 - 12:00	Knoblich	From mirroring to joint action
<i>12:00 – 13:30</i>		Lunch
13:30 - 14:30	Singer	Brain mechanisms of empathy
<i>14:30 – 15:00</i>		Coffee break
15:00 – 17:00	di Paolo (I)	Enaction: Asking the difficult questions facing embodied cognition.
15:00 - 17:00	Knoblich (II)	Competing (?) theoretical approaches to joint action
15:00 - 17:00	Singer (III)	Does empathy for pain involve a sensory component or not?
17:00 - 18:00		Evening Discussion
19:00		Dinner and Farewell Party at the restaurant Backenköhler/Stenum
1:00		Return to the hotel

Saturday, July 21

Departure