

Network Robot System: Ubiquitous, Cooperative, Interactive Robots for Human Robot Symbiosis

April 14, 2007 Roma, Italy

8:50- 9:00	Welcome
9:00-10:20	<p>Progress reports on Network Robot System in the world (1) (chair: Hiroshi Ishiguro)</p> <p>9:00-9:20 Introduction to Network Robot Systems - Research Trends and Perspectives - <i>Norihiro Hagita (ATR)</i></p> <p>-----</p> <p>9:20-9:50 (tentative) Ubiquitous Networking Robotics in Urban Settings <i>Alberto Sanfeliu (Technical University of Catalonia)</i></p> <p>-----</p> <p>9:50-10:20 Coordinated Multi-Robot Exploration <i>Wolfram Burgard (University of Freiburg)</i></p>
10:20-10:40	Coffee break
10:40-12:40	<p>Progress reports on Network Robot System in the world (2) (chair: Alberto Sanfeliu and Norihiro Hagita)</p> <p>10:40-11:10 The PEIS-Ecology Project: a progress report <i>Alessandro Saffiotti, Mathias Broxvall (Örebro University), Beom-Su Seo, and Young-Jo Cho (ETRI)</i></p> <p>-----</p> <p>11:10-11:40 Implementation and application of URC server framework <i>Hyun Kim, Young-Jo Cho (ETRI), and Sang-Rok Oh (Korea Ministry of Information and Communication)</i></p> <p>-----</p> <p>Platform and Standardization (chair: Alberto Sanfeliu and Norihiro Hagita)</p> <p>11:40-12:10 Common Platform Technology for Next-Generation Robots - Concept of Four Basic Platforms – <i>Kazuo Tanie (JST, Tokyo Metropolitan University) and Nobuto Matsuhira (JST, Toshiba Corporation)</i></p> <p>-----</p> <p>12:10-12:40 Japanese Standardization Activities on the Robotic Middlewares <i>Makoto Mizukawa (Shibaura Institute of Technology) and Tetsuo Kotoku (AIST)</i></p>
12:40-14:10	Lunch
14:10-16:00	<p>14:10-15:00 Round Table: Research Perspectives on Network Robot System (chair: Alberto Sanfeliu and Norihiro Hagita)</p> <p><i>Paolo Dario (ARTS lab.), Roland Siegwart (EPFL), Alessandro Saffiotti (Örebro University), Young-Jo Cho (ETRI), Makoto Mizukawa (Shibaura Institute of Technology), Miwako Doi (Toshiba Corporation), Ken'ichiro Shimokura (NTT)</i></p> <p>-----</p> <p>Research topics in Network Robot System (1) (chair: Hiroshi Ishiguro and Takayuki Kanda)</p> <p>15:00-15:30 Network Robot Platform: Service Allocation Architecture Based on 4W Information <i>Yukihiro Nakamura, Tamotsu Machino, Manabu Motegi, Yoshiyuki Iwata, Takanori Miyamoto, Satoshi Iwaki, Shin-yo Muto, and Ken-ichiro Shimokura (NTT)</i></p> <p>-----</p> <p>15:30-16:00 Network Robots' Plug and Play <i>Miwako Doi (Toshiba Corporation)</i></p>
16:00-16:20	Coffee break
16:20-17:50	<p>Research topics in Network Robot System (2) (chair: <i>Alessandro Saffiotti</i> and Takayuki Kanda)</p> <p>16:20-16:50 Reactive Self-Configuration of an Ecology of Robots <i>Marco Gritti, Mathias Broxvall, and Alessandro Saffiotti (Örebro University)</i></p> <p>-----</p> <p>16:50-17:20 Extending Player/Stage/Gazebo towards Cognitive Robots Acting in Ubiquitous Sensor-equipped Environments <i>Radu Bogdan Rusu, Alexis Maldonado, Michael Beetz (Technische Universität München), Brian Gerkey (SRI)</i></p> <p>-----</p> <p>17:20-17:50 Wearable and Networked Tactile Sensory Substitution for Global and Local Wayfinding <i>John S. Zelek (University of Waterloo)</i></p>