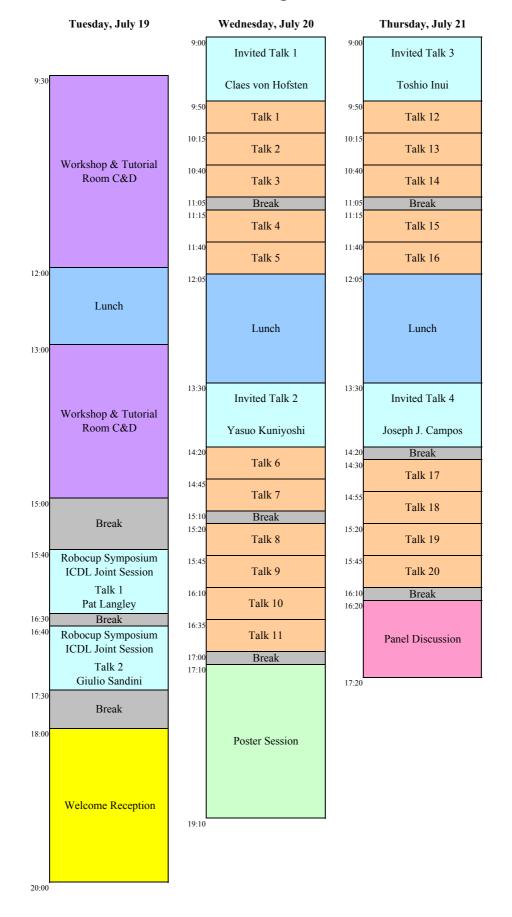
ICDL-05 Program



Program

Oral Session [International Conference Hall]

Tuesday, July 19, 2005

Robocup Symposium (ICDL Joint Session) Talk 1 (Tuesday, July 19, 15:40-16:30)
An Adaptive Architecture for Physical Agents
Pat Langley

Robocup Symposium (ICDL Joint Session) Talk 2 (Tuesday, July 19, 16:40-17:30) Developmental Robotics and Robot Development Giulio Sandini

Wednesday, July 20, 2005

Invited Talk 1 (Wednesday, July 20, 9:00-9:50)
An Action Approach to Motor Development
Claes von Hofsten

Talk 1 (Wednesday, July 20, 9:50-10:15)

From Unknown Sensors and Actuators to Visually Guided Movement Lars Olsson, Chrystopher L. Nehaniv, and Daniel Polani

Talk 2 (Wednesday, July 20, 10:15-10:40)

Timing-Based Model of Body Schema Adaptation and its Role in Perception and Tool Use: A Robot Case Study
Cota Nabeshima, Max Lungarella, and Yasuo Kuniyoshi

Talk 3 (Wednesday, July 20, 10:40-11:05)

Spontaneous Facial Mimicry in Response to Dynamic Facial Expressions Wataru Sato and Sakiko Yoshikawa

Talk 4 (Wednesday, July 20, 11:15-11:40)

An Infomax Controller for Real-Time Detection of Social Contingency Javier R. Movellan

Talk 5 (Wednesday, July 20, 11:40-12:05)

Information Self-Structuring: Key Principle for Learning and Development Max Lungarella and Olaf Sporns

Invited Talk 2 (Wednesday, July 20, 13:30-14:20)

Emergence and Development of Humanoid Embodied Cognition Yasuo Kuniyoshi

Talk 6 (Wednesday, July 20, 14:20-14:45)

Fear-like Response Induced by Intentional Gap between Neural and Body-Environment Dynamics

Shogo Yonekura, Max Lungarella, and Yasuo Kuniyoshi

Talk 7 (Wednesday, July 20, 14:45-15:10)

How to Behave in the Social World: Behavioral Analysis and Modelling for Development of Cognitive Processes

Satoru Ishikawa and Takashi Omori

Talk 8 (Wednesday, July 20, 15:20-15:45)

Interneurons: Their Cognitive Roles - A Perspective from Dynamical Systems View

Hiroshi Fujii and Ichiro Tsuda

Talk 9 (Wednesday, July 20, 15:45-16:10)

Dynamic Hierarchical Firing within a Single Layered Network: A Model of the PFC Masataka Watanabe and Kazuyuki Aihara

Talk 10 (Wednesday, July 20, 16:10-16:35)

Cooperative Behavior of Agents That Model the Other and the Self in Noisy Iterated Prisoners' Dilemma Simulation

Takaki Makino and Kazuyuki Aihara

Talk 11 (Wednesday, July 20, 16:35-17:00)

Impaired Visual Working Memory Capacity in case of Motion Direction and Color-Shape Feature Binding

Masahiro Kawasaki, Masataka Watanabe, and Kazuyuki Aihara

Poster Session (Wednesday, July 20, 17:10-19:10)

Thursday, July 21, 2005

Invited Talk 3 (Thursday, July 21, 9:00-9:50)

Brain-Body-Environment Interactions in Cognition Toshio Inui

Talk 12 (Thursday, July 21, 9:50-10:15)

An Articulatory Model with Developmental Constraints: Some Evidence from Child Speech Data

Masanori Ijiri, Toshio Inui, Shigeaki Amano, and Tadahisa Kondo

Talk 13 (Thursday, July 21, 10:15-10:40)

Dynamic Evolution of Language Games between Two Autonomous Robots Jean-Christophe Baillie and Matthieu Nottale

Talk 14 (Thursday, July 21, 10:40-11:05)

Lexicon Acquisition based on Behavior Learning Shinya Takamuku, Yasutake Takahashi, and Minoru Asada

Talk 15 (Thursday, July 21, 11:15-11:40)

The RUBI/QRIO Project: Origins, Principles, and First Steps Javier R. Movellan, Fumihide Tanaka, Bret Fortenberry, and Kazuki Aisaka

Talk 16 (Thursday, July 21, 11:40-12:05)

Reinforcement Learning with Multiple Heterogeneous Modules: A Framework for Developmental Robot Learning

Eiji Uchibe and Kenji Doya

Invited Talk 4 (Thursday, July 21, 13:00-14:20)

The Importance of Locomotion for Psychological Development in Infancy Joseph J. Campos

Talk 17 (Thursday, July 21, 14:30-14:55)

Infants' Preference for Infants and Adults

Wakako Sanefuji, Hidehiro Ohgami, and Kazuhide Hashiya

Talk 18 (Thursday, July 21, 14:55-15:20)

Motor Interference between Humans and Humanoid Robots: Effect of Biological and Artificial Motion

Thierry Chaminade, David W. Franklin, Erhan Oztop, and Gordon Cheng

Talk 19 (Thursday, July 21, 15:20-15:45)

Does Pointing Comprehension Disturb Controlling Actions? :Evidence from 2-year-old Children

Yusuke Moriguchi and Shoji Itakura

Talk 20 (Thursday, July 21, 15:45-16:10)

Does Gaze Reveal the Human Likeness of an Android?

Takashi Minato, Michihiro Shimada, Shoji Itakura, Kang Lee, and Hiroshi Ishiguro

Panel Discussion (Thursday, July 21, 16:20-17:20)

International Collaboration of Study on Development and Learning

Coordinator: Minoru Asada (Osaka University, Japan)

Panelist: Joseph J. Campos (University of California, USA)

Claes von Hofsten (Uppsara University, Sweden)

Giulio Sandini (University of Genova, Italy) Ichiro Uchiyama (Doshisha University, Japan)

Poster Session (Wednesday, July 20, 17:10-19:10) [International Conference Hall]

Poster 1	Color Tone Perception and Naming: Development in Acquisition of Color Modifiers
	Dishna R. Wanasinghe, Charith N.W. Giragama, and Nadia Bianchi-Berthouze
Poster 2	Cognitive Substrates: What They Are and What They Learn
	Alexander I. Kovács and Haruki Ueno
Poster 3	Self-Development of Motor Abilities Resulting from the Growth of a Neural Network Reinforced by Pleasure and Tensions
	Juan Liu and Andrzej Buller
Poster 4	Visio-Tactile Binding through Double-Touching by a Robot with an Anthropomorphic Tactile Sensor

Yuichiro Yoshikawa, Mamoru Yoshimura, Koh Hosoda, and Minoru Asada

Poster 5	Self-Other Motion Equivalence Learning for Head Movement Imitation
Destario	Yukie Nagai
Poster 6	Evolutionary Robotics: Incremental Learning of Sequential Behavior Nicolas Bredeche and Louis Hugues
Poster 7	Mapping the Space of Skills: An Approach for Comparing Embodied Sensorimotor Organizations
	Frederic Kaplan and Verena V. Hafner
Poster 8	Real-Time Multi-View Face Tracking for Human-Robot Interaction Kwang Ho An, Dong Hyun Yoo, Sung Uk Jung, and Myung Jin Chung
Poster 9	Six-month-old Infants' Expectations for Interactive-Humanoid Robots Akiko Arita, Kazuo Hiraki, Takayuki Kanda, and Hiroshi Ishiguro
Poster 10	Plans for Developing Real-Time Dance Interaction between QRIO and Toddlers in a Classroom Environment
	Fumihide Tanaka, Bret Fortenberry, Kazuki Aisaka, and Javier R. Movellan
Poster 11	Imitation Faculty based on a Simple Visuo-Motor Mapping towards Interaction Rule Learning with a Human Partner
	Masaki Ogino, Hideki Toichi, Minoru Asada, and Yuichiro Yoshikawa
Poster 12	Familiar Behaviors Evaluation for a Robotic Interface of Practicality and Familiarity
	Daisuke Yamamoto, Miwako Doi, Nobuto Matsuhira, Hirotada Ueda, and Masatsugu Kidode
Poster 13	Longitudinal Observations of Structural Changes in the Mother-Infant Interaction: A New Perspectives based on Infants' Locomotion Development
	Atsuhiko Funabashi
Poster 14	Online Injection of Teacher's Abstract Concepts into a Real-Time Developmental Robot with Autonomous Navigation as Example Shuqing Zeng, Nan Zhang, and Juyang Weng
Poster 15	Towards Robot Soccer Team Behaviours through Approximate Simulation
	Stephen R. Young and Stephan K. Chalup
Poster 16	How can Prosody Help to Learn Actions? Britta Wrede, Jannik Fritsch, and Katharina Rohlfing
Poster 17	It's a Child's Game: Investigating Cognitive Development with Playing Robots
	Birger Johansson and Christian Balkenius
Poster 18	Young Infants' Sensitivity to Social Contingency from Mother and Stranger: Developmental Changes
	Mako Okanda and Shoji Itakura
Poster 19	Distinguishing Intentional Actions from Accidental Actions Kousuke Harui, Natsuki Oka, and Yasushi Yamada
Poster 20	Emotional Elicitation by Dynamic Facial Expressions

	Wataru Sato and Sakiko Yoshikawa
Poster 21	Competition between Spatial and Temporal Factors in Simple Apparent Motion is Modulated by Laterality
	Kazuhiro Sakamoto, Toru Onizawa, and Masafumi Yano
Poster 22	Studies on the Mode of Tangential Migration of Developing GABAergic Neurons, with Special Reference to Their Birthdate
	Satoshi Tada and Fujio Murakami
Poster 23	The Developmental Change of Infants' Gaze Shift Misa Kuroki
Poster 24	Memory for Faces in Infants: A Comparison to the Memory for Objects
	Reiko Morimoto and Kazuhide Hashiya
Poster 25	Inhibition in Cognitive Development: Contextual Impairments in Autism
	Petra Björne, Birger Johansson, and Christian Balkenius
Poster 26	Reinforcement Learning of Informative Attention Patterns for Object Recognition
	Lucas Paletta, Gerald Fritz, and Christin Seifert
Poster 27	Motion-Triggered Human-Robot Synchronization for Autonomous Acquisition of Joint Attention
	Hidenobu Sumioka, Koh Hosoda, Yuichiro Yoshikawa, and Minoru Asada
Poster 28	A Computational Model which Learns to Selectively Attend in Category Learning
	Lingyun Zhang and Garrison W. Cottrell
Poster 29	Prototype-Specific Learning for Children's Vocabulary Shohei Hidaka and Jun Saiki
Poster 30	Learning the Correspondence between Continuous Speeches and Motions
	Natsuki Oka, Arata Nakafushiki, and Yoshiaki Itoh
Poster 31	Statistical Characteristics of Velocity of Movements of Limbs in Young Infants during the Conjugate Reinforcement Mobile Task
	Ryoya Saji, Hama Watanabe, and Gentaro Taga
Poster 32	Transient Synchrony and Dynamical Representation of Behavioral Goals of the Prefrontal Cortex
	Kazuhiro Sakamoto, Hajime Mushiake, Naohiro Saito, and Jun Tanji
Poster 33	Kernel Isomap on Noisy Manifold
	Heeyoul Choi and Seungjin Choi