

Fraunhofer IAIS-Kyutech- Knowledge Cluster Initiative Joint Workshop

October 10 (Friday)

14:15-16:15 Knowledge Cluster Initiative (The 2nd Stage), Expansion Program

Takashi Morie, Brain-inspired visual processing toward intelligent automobile applications

Tsutomu Miki, Intelligent image pre-processing using a half-cosine function wavelet network

Akitoshi Hanazawa, Image processing algorithms inspired by the human visual system

Hiroyuki Miyamoto, A helper robot controlled by gesture

Organized by Fukuoka IST Foundation

16:15-16:45 Coffee break

16:45-17:45 Ordinary session

Pedro Marron, Research Clusters in CONET, the Cooperating Objects NETwork of Excellence

Shuji Aou, Katsumi Tateno, Satoshi Sonoo, Tsunehiro Matsuura, Akira Masuda, Takeshi Yamakawa, Applications and perspectives based on homeostatic, emotional, and social brains

October 11 (Saturday)

10:00-11:00 Knowledge Cluster Initiative (The 2nd Stage), Expansion Program

Thomas Christaller, The relationships between cognition and neural processes and their impact on Artificial Intelligence/Life/Robotics

Hartmut Surmann, Simultaneous Localization and Mapping in Rescue Environments

Organized by Fukuoka IST Foundation

11:00-12:30 Ordinary session

Tetsuo Furukawa, Generalized SOM as a Foundation of Brain-like Intelligence

Kiyohisa Natsume, Genki Ogata, Satoru Ishizuka, Hatsuo Hayashi, The limbic recurrent neuronal network in brain and the possibility of brain-inspired time-series memory system

Katsumi Tateno, Stochastic theta rhythm selection in a neural network model

12:30-14:00 Lunch

14:00-16:00 Knowledge Cluster Initiative (The 2nd Stage), Expansion Program

Mario Negrello, Prediction of Intentions in Robots

Paul Ploeger, The German service robotics initiative DESIRE

Amir Ali Forough Nassiraei, Concept of Intelligent Mechanical Design for Autonomous Mobile Robot

Masanori Sato, Optimum Design of A Wheeled Mobile Robot for Outdoor Environment

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16:00-16:30 Coffee break

16:30-17:30 Wrap up meeting on joint research