The 2nd International Symposium on Brainware LSI March 2-3, 2015

Conference Room, Main Building, RIEC, Tohoku University, Sendai, Japan

Sponsored by 2014 RIEC Collaboration Project Research (PJ#:H26/B09) "Brainware LSI International Joint Research" and Brainware LSI Project, RIEC, Tohoku University

Tentative Program

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	March 2 (Monday)
09:30- 10:00-10:10	Registration Opening remarks
<session 1:<="" td=""><td>Recognition & Learning in Brainware LSI I></td></session>	Recognition & Learning in Brainware LSI I>
10:10-10:40	Computational Models of Human Visual Attention Driven by Auditory Cues Akisato Kimura (Communication Science Laboratories, NTT Corporation, Japan)
10:40-11:10	Eye-Head Coordination During Viewing with Cognitive Tasks York Fang (Tohoku University, Japan)
11:10-11:40	Algorithms and Architectures for Decoding Polar Codes Warren J. Gross (McGill University, Canada)
11:40-13:30	Lunch meeting
<session 2:<="" td=""><td>Brainware LSI Technologies I ></td></session>	Brainware LSI Technologies I >
13:30-14:00	VLSI Design of Neural Network Model for Local Motion Detection in Motion Stereo Vision Hisanao Akima (Tohoku University, Japan)
14:00-14:30	Scalable Communication Model for Configurable Hardware Architectures of Large-Scale Spiking Neural Networks Mireya Zapata (Technical University of Catalunya, Spain)
14:30-15:00	Nonvolatile FPGA Platform for Brainware-LSI Emulation Daisuke Suzuki (Tohoku University, Japan)
15:00-15:20	Coffee break
<session 3:<="" td=""><td>Brainware LSI Technologies II></td></session>	Brainware LSI Technologies II>
15:20-15:50	An Integrated Reconfigurable Tri-mode DC-DC Converter for Brainware VLSI Power Management Wai Tung Ng (University of Toronto, Canada)
15:50-16:20	Stochastic Computation for Brainware Massively Parallel Vision Chips Naoya Onizawa (Tohoku University, Japan)
16:20-16:50	Toward Understanding the Interlimb Coordination Mechanism Underlying Legged Locomotion Akio Ishiguro (Tohoku University, Japan)
	March 3 (Tuesday)
<session 4:<="" td=""><td>Recognition & Learning in Brainware LSI II ></td></session>	Recognition & Learning in Brainware LSI II >
09:30- 10:00	The Effect of Utterance Movie of Irrelevant Speech on Serial Recall
10:00-10:30	Tomoko Ohtani (Tohoku University, Japan) Reproducing Individual HRTFs with A Low Channel Count Microphone Array - Current State and Future Research Matthias Blau (Jade University of Applied Sciences, Germany)
10:30-10:50	Coffee break
<session 5:<="" td=""><td>Brainware LSI Technologies III ></td></session>	Brainware LSI Technologies III >
10:50-11:20	Variability-Tolerant Convolutional Neural Network for Pattern Recognition Applications based on OxRAM Synapses
11:20-11:50	Daniele Garbin (CEA-LETI-MINATEC, France) Removal of Local Minima from Back Propagation Learning in IDL Model Yuta Horiuchi (Tohoku University, Japan)
11:50-12:20	Efficient Neural Computing using Cellular Array of Magneto-Metallic Neurons Kaushik Roy (Purdue University, USA)
12:20-12:30	Closing remarks