The 7th International Symposium on Brainware LSI

March 31, 2021

Online

Sponsored by RIEC Collaboration Project Research (PJ#: H29/B17) and Brainware LSI Project, RIEC, Tohoku University, Japan.

Tentative Program

* All in JST (U	TC+9)
10:30-10:45	Opening remarks
10:45-11:10	Stochastic Computing for Edge Intelligence
	Warren J. Gross (McGill University, Canada)
11:10-11:35	A Genetically Encoded Autonomous Bioluminescent Voltage Indicator for Neural Imaging
	Luke Theogarajan (UC Santa Barbara, USA)
11:35-12:00	Auditory brain models for the localization and identification of sound
	César D. Salvador (Perception R&D, Lima, Peru)
12:00-13:30	Lunch
13:30-13:55	Trend of IoT and 5G Edge Computing
	Norikatsu Takaura (Hitachi, Ltd., Japan)
13:55-14:20	Practical and Mathematical investigation for bio-sonar strategy of bats
	Yasufumi Yamada (Hiroshima University, Japan)
14:20-14:45	Hierarchical Decentralized Control Mechanism Underlying Brittle Stars' Locomotion
	Takeshi Kano (Tohoku University, Japan)
14:45-15:10	The visual attention at the hand-movement goal
	Wei Wu (Tohoku University, Japan)
15:10-15:25	Break
15:25-15:50	Analog CMOS Neural Network for Edge Computing
	Shigeo Sato (Tohoku University, Japan)
15:50-16:15	In-Hardware Training Chip Based on CMOS Invertible Logic for Machine Learning
	Naoya Onizawa (Tohoku University, Japan)
16:15-16:40	Capacity of fully binarized convolutional neural network
	Martin Lukac (School of Science and Technology, Nazarbayev University, Kazakhstan)
16:40-16:55	Break
16:55-17:20	Prefiltering Using Reflectionless Transmission-Line Model for Speech Recognition in Noise Environment
	Takemori Orima (Tohoku University, Japan)
17:20-17:45	Comparison of the effect of auditory spatial attention in front and back space
	Ryo Teraoka (Kumamoto University, Japan)
17:45-18:10	Enhancement and suppression in selective visual attention
	Søren K. Andersen (University of Aberdeen, UK)
18:10-18:15	Closing remarks