



29th International Workshop on Post-Binary ULSI Systems (ULSIWS2020)

Tentative Program	
-14:30	Registration & Lunch
14:30-14:35	Opening Remark General Chair, Masanori Natsui (Tohoku University, Japan)
Poster Session: Chair TBD	
14:35-14:45	A delta-sigma modulation feedforward network with improved noise-shaping characteristics Tomoaki Koizumi, Takao Waho, Hitoshi Hayashi (Sophia University, Japan)
	Energy-Efficient ECG Signals Outlier Detection Hardware Using a Sparse Robust Deep Autoencoder Naoto Soga, Shimpei Sato, Hiroki Nakahara (Tokyo Institute of Technology, Japan)
	Parameter Tuning of Real Time Kinematic Positioning Using GPS based on Multi-objective Optimization Naoto Sekizuka*, Kazuharu Nakajima*, Fuyuki Hane**, Yosuke lijima* (*National Institute of Technology, Oyama Collage, Japan **TOKYO KEIKI INC., Japan)
Regular Session: Chair TBD	
14:45-16:00	Two Function Translations for Reversible Circuit Synthesis Michael Miller, (University of Victoria, Canada)
	On a Generation Method of Benchmark Maximally Asymmetric Functions Shinobu Nagayama, Hiroshi Kanehagi, Masato Inagi, and Shin'ichi Wakabayashi (Hiroshima City University, Japan)
	Computing with unknown uncertainties Patrik Eklund (Umeå University, Department of Computing Science, Sweden)
	Autonomous Recognition of Hazardous Areas by a Guide Dog Robot Taisei Hiramoto and Tomoyuki Araki (Hiroshima Institute of Technology, Japan)
	TAI Compiler: Deep Learning Inference Optimizer for an FPGA Hiroki Nakahara (Tokyo Institute of Technology, Japan / Tokyo Artisan Intelligence Co., Ltd., Japan)
	Statistical PAM-4 Eye-Opening Monitor Technique for Adaptive Equalization Keigo Taya*, Yosuke lijima**, Yasushi Yuminaka* (*Gunma University, Japan **National Institute of Technology, Oyama College, Japan)
16:00-16:05	Closing

Poster: 3 (Talk) minutes for each presentation Regular: 5 (Talk)+5(Q&A) minutes for each presentation

General Chair, Masanori Natsui (Tohoku University, Japan)