Sixth International Workshop on

FPGAs for Software Programmers (FSP 2019)

September 12, 2019, Barcelona, Spain co-located with

International Conference on Field Programmable Logic and Applications (FPL)

Program

09:00 - 09:05	Workshop Opening
09:05 – 10:05	KEYNOTE 1: "Addressing High-level Synthesis Challenges for Heterogenous Computing at the Edge" Juan Eusse, Silexica, Germany
10:05 – 11:50	Session 1: HLS Acceleration and Optimization
10:05 – 10:30	"Accelerating Human Activity Recognition Systems on FPGAs through a DSL approach" Daniel Fernandes and João Cardoso
10:30 – 11:00	Coffee Break
11:00 – 11:25	"Accelerating Design Convergence of Automata Processing Designs with a Tiled Hierarchy" Tommy Tracy II, Jack Wadden, Ted Xie, Kevin Skadron and Mircea Stan
11:25 – 11:50	"Impact of Off-Chip Memories on HLS-Generated Circuits" Abhi D. R., Ron Sass and Andrew Schmidt
11:50 – 13:05	Session 2: Heterogeneous Systems and Runtime Support
11:50 – 12:15	"LibGalapagos: A Software Environment for Prototyping and Creating Heterogeneous FPGA and CPU Applications" Naif Tarafdar and Paul Chow
12:15 – 12:40	"Run-time Performance Monitoring of Heterogenous Hw/Sw Platforms Using PAPI" Tiziana Fanni, Daniel Madroñal, Claudio Rubattu, Carlo Sau, Francesca Palumbo, Eduardo Juárez, Maxime Pelcat, César Sanz and Luigi Raffo
12:40 – 13:05	"ZUCL 2.0: Virtualised Memory and Communication for ZYNQ UltraScale+ FPGAs" Khoa Pham, Kyriakos Paraskevas, Anuj Vaishnav, Andrew Attwood, Malte Vesper and Dirk Koch
13:05 – 14:00	Lunch Break
14:00 – 15:00	KEYNOTE 2: "Architecture Virtualization as Prerequisite for Large-Scale FPGA Adoption In Software Communities" Christophe Bobda, University of Florida, USA
15:00 – 15:30	INVITED TALK: "fpgaConvNet and f-CNN": Towards addressing the challenges in ML application deployment" Christos-Savvas Bouganis, Imperial College, London, UK
15:30 – 16:00	Coffee Break
16:00 – 16:45	TUTORIAL: "OpenCL design flows for Intel and Xilinx FPGAs - using common design patterns and dealing with vendor-specific differences" Tobias Kenter, Paderborn University, Germany
16:45 – 17:15	INVITED TALK: "Care of magical creatures - How to tame, train and feed your Alveo or Stratix FPGA card" Luciano Lavagno, Politecnico di Torino, Italy
17:15 – 17:30	Workshop Closing

