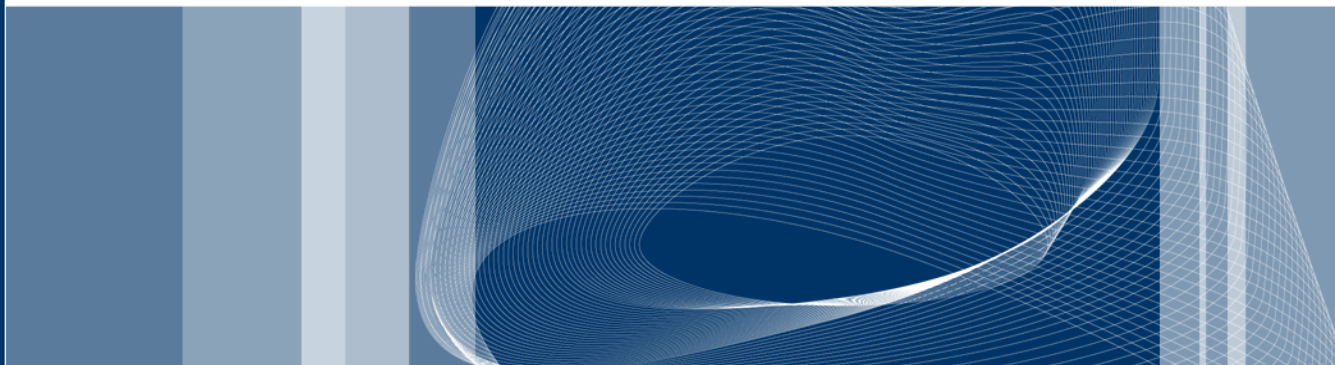


27th International Conference on Field-Programmable Logic and Applications (FPL)

Ghent, Belgium, September 4 - 8, 2017



 POLITECNICO DI MILANO



FPL Tutorial

BAMBU: An open-source framework for research in high-level synthesis

Christian Pilato, Marco Lattuada, Pietro Fezzardi, Fabrizio Ferrandi

- ❑ Morning
 - ▶ Presentation of bambu
 - ▶ Target Customization and Tool Integration
 - ▶ Compiler Based Optimizations, Tuning and Customization of Generated Accelerators
 - ▶ Synthesis and optimization of memory accesses
 - ▶ Debugging and Automated Bug Detection for Hardware Generated with bambu

- ❑ Afternoon
 - ▶ Installation and Configuration of bambu
 - ▶ Tuning of the bambu design flow and accelerator customization
 - ▶ Optimization of the memory architecture
 - ▶ Co-simulation workflow
 - ▶ Integration of third parties IPs
 - ▶ Automated bug detection with Discrepancy Analysis
 - ▶ Integration of not supported boards

□ Christian Pilato

- ▶ Postdoc Researcher– USI Lugano



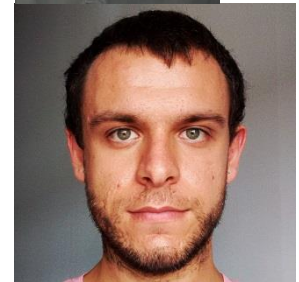
□ Marco Lattuada

- ▶ Postdoc Researcher – Politecnico di Milano



□ Pietro Fezzardi

- ▶ PhD Student – Politecnico di Milano



□ Fabrizio Ferrandi

- ▶ Associate Professor – Politecnico di Milano



- ❑ You can download the slides and the VM with a pre-configured environment from the FPL tutorial webpage

<https://www.fpl2017.org/conference/activities/13/bambu-an-open-source-framework-for-research-in-high-level-synthesis/>

Or from the PandA website:

https://panda.dei.polimi.it/?page_id=644