

Mickaël Dardaillon

Education

- 2014 Doctorate degree, INSA Lyon, Computer Science.
- 2011 Master degree, Université d'Orléans, Electrical Engineering.
- 2011 Engineer degree, Polytech'Orléans, Electrical Engineering.

Experience

- 2014–2015 **Research Intern (ongoing)**, *Nokia Technologies*, Berkeley, California. Implementation of LTE-Advanced protocol on FPGA and manycores.
- 2011–2014 **PhD Student**, *CITI-Inria*, *INSA Lyon & CEA*, *LETI*, Lyon & Grenoble, France. Compilation for Parametric Dataflow targeting MPSoC.
 - 2011 **Research Intern**, *CITI-Inria*, *INSA Lyon*, Lyon, France. Implementation of cryptographic primitives on wireless sensor node.
 - 2010 **Engineer Intern**, *FH Electronics*, Orléans, France. Design of electronic fuel injection control board.

Teaching

Undergraduate Architecture, Algorithmic and Databases. Lab teaching and examination design

Skills

Hardware Design and implementation.

Compilation

Network

Modeling

Application

Design and implementation.

Experiments on FPGA technology

Complete design and implementation

PHY layer development

Theory and implementation in a compiler

Signal processing, Software Defined Radio, Cryptography.

Languages

French Native English Fluent

1 semester at University of Texas at Dallas

Publications

Thesis manuscript

2014 Mickaël Dardaillon. "Compilation d'application flot de données paramétriques pour MPSoC dédiés à la radio logicielle". PhD thesis. Lyon, France: INSA Lyon, Nov. 2014

Book chapters

2014 Mickaël Dardaillon, Kevin Marquet, Tanguy Risset, Jérôme Martin, and Henri-Pierre Charles. "Cognitive Radio Programming Survey". In: Handbook of Research on Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Management. Ed. by Naima Kaabouch and Wen-Chen Hu. IGI Global, Oct. 2014

International conferences

- 2014 Mickaël Dardaillon, Kevin Marquet, Tanguy Risset, Jérôme Martin, and Henri-Pierre Charles. "A Compilation Flow for Parametric Dataflow: Programming Model, Scheduling, and Application to Heterogeneous MPSoC". in: *International Conference on Compilers, Architecture and Synthesis for Embedded Systems (CASES)*. New Delhi, India, Oct. 2014
- 2012 Mickaël Dardaillon, Cédric Lauradoux, and Tanguy Risset. "Hardware implementation of the GPS authentication". In: International Conference on Reconfigurable Computing and FPGAs (ReConFig). Cancun, Mexico, Dec. 2012, pp. 1–6
 Mickaël Dardaillon, Kevin Marquet, Tanguy Risset, and Antoine Scherrer. "Software defined radio architecture survey for cognitive testbeds". In: International Wireless Communications and Mobile Computing Conference (IWCMC). Limassol, Cyprus, Aug. 2012, pp. 189–194

Research report

2013 Mickaël Dardaillon, Kevin Marquet, Jérôme Martin, Tanguy Risset, and Henri-Pierre Charles. *Cognitive Radio Programming: Existing Solutions and Open Issues*. Tech. rep. 8358. Inria, Sept. 2013. URL: http://hal.inria.fr/hal-00859467

National conferences and workshops

- 2014 Mickaël Dardaillon, Kevin Marquet, Tanguy Risset, Jérôme Martin, and Henri-Pierre Charles. "Contrôle d'application flot de données pour les systèmes sur puces : étude de cas sur la plateforme Magali". In: Conférence en Parallélisme, Architecture et Système (ComPAS). Neuchâtel, Switzerland, Apr. 2014
 - Mickaël Dardaillon, Kevin Marquet, Tanguy Risset, Jérôme Martin, and Henri-Pierre Charles. "Compilation for heterogeneous SoCs: bridging the gap between software and target-specific mechanisms". In: Workshop on High Performance Energy Efficient Embedded Systems at the international conference on High Performance and Embedded Architecture and Compilation (HiPEAC). Vienna, Austria, Jan. 2014
- 2013 Mickaël Dardaillon, Kevin Marquet, Tanguy Risset, Jérôme Martin, and Henri-Pierre Charles. "Machine Virtuelle pour la Radio Cognitive". In: École d'hiver Francophone sur les Technologies de Conception des Systèmes embarqués Hétérogènes (FETCH). Leysin, Switzerland, Jan. 2013