

Two day workshop DICE & FOPARA in co-location at ETAPS 2015:
4th Foundational and Practical Aspects of Resource Analysis (FOPARA)
Workshop Chairs: Marko van Eekelen and Ugo dal Lago
6th Developments in Implicit Computational Complexity (DICE)
Workshop Chair: Marco Gaboardi

FOPARA - DICE - Saturday, 11 April		Francis Bancroft Building / Room: FB.1.06
09h30 - 10h30	<p><i>Chair: Marko van Eekelen, Open University and Radboud University, The Netherlands</i> 09h30: Kevin Hammond. <i>Structure, Semantics and Speedup: Reasoning about Structured Parallel Programs using Dependent Types (invited speaker)</i> TACLe session: relation time to other resources, e.g parallelism and energy 09h30-12h00</p>	
	COFFEE BREAK	
11h00 - 12h30	<p><i>Chair: Kevin Hammond, University of St. Andrews, United Kingdom</i> 11h00: Elvira Albert, Antonio E. Flores Montoya and Samir Genaim. <i>May-Happen-in-Parallel Analysis with Condition Synchronization</i> 11h30: Bernard van Gastel, Rody Kersten and Marko van Eekelen. <i>A Dependent Type System for Energy Consumption Analysis</i> 12h00: Emmanuel Hainry and Romain Péchoux. <i>Implicit computational complexity in Object Oriented Programs</i></p>	
	LUNCH	
14h30 - 16h00	<p><i>Chair: Simone Martini, University of Bologna, Italy</i> 14h30: Martin Avanzini, Ugo Dal Lago and Georg Moser. <i>Higher-Order Complexity Analysis: Harnessing First-Order Tools</i> 15h00: Emmanuel Hainry and Romain Péchoux. <i>Higher order interpretations for Basic Feasible Functions</i> 15h30: Dominic Orchard. <i>Complexity bounds from abstract categorical models</i></p>	
	COFFEE BREAK	
16h30 - 17h30	<p><i>Chair: Clément Aubert, LACL, University of East Paris, France</i> 16h30: Jakob Grue Simonsen. <i>Cons-free Term Rewriting and Complexity Classes (invited speaker)</i></p>	
DICE – FOPARA - Saturday, 11 April		Francis Bancroft Building / Room: FB.1.06
09h30 - 10h30	<p><i>Chair: Marco Gaboardi, University of Dundee, United Kingdom</i> 09h30: Simona Ronchi Della Rocca. <i>Intersection Types and Implicit Computational Complexity (invited speaker)</i></p>	
	COFFEE BREAK	
11h00 - 12h30	<p><i>Chair: Patrick Baillot, ENS-Lyon, France</i> 11h00: Guillaume Bonfante, Jean-Yves Moyen and Pierre Boudes. <i>Extensional filters reveal algorithms</i> 11h30: Pierre Valarcher and Yoann Marquer. <i>An algorithmic complete programming language for a large class of algorithms computable in polynomial time</i> 12h00: Clément Aubert. <i>An in-between “implicit” and “explicit” complexity: Automata</i></p>	
	LUNCH	
14h00 - 16h00	<p><i>Chair: Simona Ronchi della Rocca, University of Turin, Italy</i> 14h00: Thomas Seiller. <i>Towards a Complexity-through-Realizability Theory</i> 14h30: Reinhard Kahle and Isabel Oitavem. <i>The probabilistic class PP</i> 15h00: Patrick Baillot, Gilles Barthe and Ugo Dal Lago. <i>Implicit Computational Complexity of Subrecursive Cryptographic Reductions</i> 15h30: Jostein Aanderaa. <i>On Robinson style simplifications to the traditional bounded recursion on notation scheme</i></p>	
	COFFEE BREAK	
16h30 - 17h30	<p><i>Chair: Ugo dal Lago, University of Bologna, Italy</i> 16h30: Deepak Garg. <i>Type-based analysis of incremental computational complexity (invited speaker)</i></p>	

