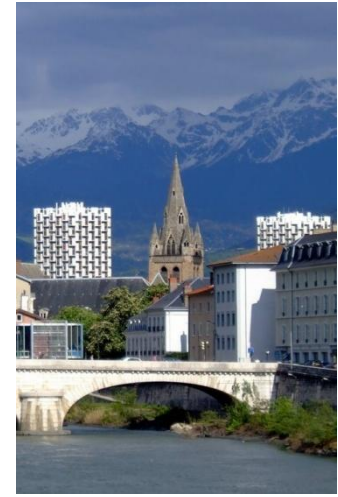




CMCS'14

The 12th International Workshop on
Coalgebraic Methods in Computer Science
 5 – 6 April 2014
 Grenoble, France
<http://www.coalg.org/cmcs14>



Scientific Programme

Saturday, 5 April 2014

09:15 – 09:30	Opening	
09:30 – 10:30	Keynote talk Equations, contractions, and unique solutions <i>Davide Sangiorgi</i>	Session chair Marcello Bonsangue
10:30 – 11:00	Coffee break	
11:00 – 11:30	A coalgebraic view of characteristic formulas in equational modal fixed point logic <i>Sebastian Enqvist and Joshua Sack</i>	Session chair Corina Cirstea
11:30 – 12:00	Coalgebraic simulations and congruences <i>H. Peter Gumm and Mehdi Zarrad</i>	
12:00 – 12:30	Categories of coalgebras with monadic homomorphisms <i>Wolfram Kahl</i>	
12:30 – 14:00	Lunch	
Special session on Game Theory and Coalgebras		
14:10 – 15:00	The algebraic and coalgebraic sides of game semantics <i>Paul Andre Mellies</i>	Session chair Stefan Milius
15:00 – 16:00	Invited talk Coalgebraic games <i>Marina Lenisa</i>	
16:00 – 16:30	Coffee break	
16:30 – 17:20	Coinduction, equilibrium and escalation, or the rationality of madness <i>Pierre Lescanne</i>	Session chair H.-Peter Gumm
17:20 – 17:40	A note on typed behavioural differential equations <i>Henning Basold, Helle Hvid Hansen and Jan Rutten</i>	
17:40 – 18:00	Foundations of total functional data-flow programming, coinductively <i>Baltasar Trancón Y Widemann and Markus Lepper</i>	

Sunday, 6 April 2014

Invited talk		
09:00 – 10:00	Towards coalgebraic model checking <i>Ichiro Hasuo</i>	Session chair Jiří Adámek
09:30 – 10:30	Dijkstra monads in monadic computation <i>Bart Jacobs</i>	
10:30 – 11:00	Coffee break	
11:00 – 11:30	Algebraic-coalgebraic recursion theory of history-dependent dynamical system models <i>Baltasar Trancón Y Widemann and Michael Hauhs</i>	Session chair Marina Lenisa
11:30 – 11:50	Coinduction up-to in a fibrational setting <i>Filippo Bonchi, Daniela Petrisan, Damien Pous and Jurriaan Rot</i>	
11:50 – 12:10	An exercise on streams: convergence acceleration (an abstract) <i>Pierre Lescanne</i>	
12:10 – 12:30	Towards a coalgebraic Chomsky hierarchy <i>Sergey Goncharov, Stefan Milius and Alexandra Silva</i>	
12:30 – 14:00	Lunch	
14:00 – 14:30	Canonical nondeterministic automata <i>Robert Myers, Jiří Adámek, Stefan Milius and Henning Urbat</i>	Session chair Bart Jacobs
14:30 – 15:00	Lifting adjunctions to coalgebras to (re)discover automata constructions <i>Henning Kerstan, Barbara König and Bram Westerbaan</i>	
15:00 – 15:30	On coalgebras with internal moves <i>Tomasz Brengos</i>	
15:30 – 16:00	How to kill epsilons with a dagger - a coalgebraic take on systems with algebraic label structure <i>Filippo Bonchi, Stefan Milius, Alexandra Silva and Fabio Zanasi</i>	
16:00 – 16:30	Coffee break	
16:30 – 17:00	Towards systematic construction of temporal logics for dynamical systems via coalgebra <i>Baltasar Trancón Y Widemann</i>	Session chair Daniela Petrisan
17:00 – 17:20	A modular approach to linear-time logics <i>Corina Cirstea</i>	
17:20 – 17:40	Coinitial semantics for redecoration of triangular matrices <i>Benedikt Ahrens and Régis Spadotti</i>	
17:40 – 18:00	A coalgebraic approach to bidirectional transformations <i>Faris Abou-Saleh and James McKinna</i>	
ETAPS pre-workshops dinner		

Color keys
Keynote/invited talk
Special session on game theory and coalgebras
Regular paper
Short presentation
Coffee/lunch break