

DisCoTec 2018

Program of the main conferences

COORDINATION, DAIS, FORTE

	Monday June 18	Tuesday June 19	Wednesday June 20
9:00-9:50	Registration	Registration	Registration
9:50-10:00	Presentation DisCoTec 2018		
10:00-11:00	Keynote Speaker Paolo Romano	Keynote Speaker Franco Zambonelli	Keynote Speaker Véronique Cortier
11:00-11:30	Coffee break	Coffee break	Coffee break
11:30-13:00	Joint session: CDF	Best papers session: CDF	Session 5: COORDINATION
13:00-14:30	Lunch	Lunch	Lunch
14:30-16:00	Parallel Sessions 1: CDF	Parallel Sessions 3: CDF	
16:00-16:30	Coffee break	Coffee break	
16:30-17:30	Parallel Sessions 2: CDF	Parallel Sessions 4: CD	
17:30-20:30			
20:30-	Welcome reception	Conference dinner	

CDF: COORDINATION, DAIS, FORTE

CD: COORDINATION, DAIS

COORDINATION 2018

JOINT SESSION: Monday, June 18, 11:30-13:00

Giorgio Audrito, Jacob Beal, Ferruccio Damiani and Mirko Viroli.

Space-Time Universality of Field Calculus

SESSION 1: Monday, June 18, 14:30-16:00

Giovanni Ciatto, Stefano Mariani, Maxime Louvel, Andrea Omicini and Franco Zambonelli.

Twenty Years of Coordination Technologies: State-of-the-Art and Perspectives (Survey)

Mario Bravetti and Gianluigi Zavattaro.

Foundations of Coordination and Contracts and their Contribution to Session Type Theory (Survey)

SESSION 2: Monday, June 18, 16:30-17:30

Eva Kuhn, Sophie Therese Radschek and Nahla Elaraby.

Distributed Coordination Runtime Assertions for the Peer Model

Kasper Dokter and Farhad Arbab.

Rule-Based Form for Stream Constraints

BEST PAPERS SESSION: Tuesday, June 19, 11:30-13:00

Kiko Fernandez-Reyes, Dave Clarke, Elias Castegren and Huu-Phuc Vo.

Forward to a Promising Future

SESSION 3: Tuesday, June 19, 14:30-16:00

Rocco De Nicola, Gianluigi Ferrari, Rosario Pugliese and Francesco Tiezzi.

A Formal Approach to the Engineering of Domain-Specific Distributed Systems (Survey)

Mirko Viroli, Jacob Beal, Ferruccio Damiani, Giorgio Audrito, Roberto Casadei and Danilo Pianini.

From Field-Based Coordination to Aggregate Computing (Survey)

SESSION 4: Tuesday, June 19, 16:30-17:30

Pierre Sutra, Patrick Marlier, Valerio Schiavoni and Francois Trahay.

Boosting Transactional Memory with Stricter Serializability

Pierre Leca, Ludovic Henrio, Gaétan Hains and Wijnand Suijlen.

Active objects for coordinating BSP computations (short paper)

SESSION 5: Wednesday, June 20, 11:30-13:00

Denis Darquennes, Jean-Marie Jacquet and Isabelle Linden.

On Multiplicities in Tuple-based Coordination Languages: the Bach Family of Languages and its Expressiveness Study (Survey)

Linas Kaminskas and Alberto Lluch Lafuente.

Aggregation policies for tuple spaces

DAIS 2018

JOINT SESSION: Monday, June 18, 11:30-13:00

Adrian Francalanza, Claudio Antares Mezzina and Emilio Tuosto.

Reversible Choreographies via Monitoring in Erlang

SESSION 1 (Middleware): Monday, June 18, 14:30-16:00

Henner Heck, Olga Kieselmann, Nils Kopal and Arno Wacker.

A Decentralized Resilient Short-term Cache for Messaging

João Rodrigues, Eduardo R. B. Marques, Joaquim Silva, Luis Lopes and Fernando Silva.

Video Dissemination in Untethered Edge-Clouds: a Case Study

Christian Berger and Hans P. Reiser.

WebBFT: Byzantine fault tolerance for resilient interactive web applications

SESSION 2 (Adaptation): Monday, June 18, 16:30-17:30

Francisco Javier Velazquez-Garcia, Pål Halvorsen, Håkon Kvale Stensland and Frank Eliassen.

Autonomic adaptation of multimedia presentations adhering to application mobility

Fahimeh Rahemi, Ehsan Khamespanah and Ramtin Khosravi.

Improving the Performance of Actor-Based Programs Using a New Actor to Thread Association Technique

BEST PAPERS SESSION: Tuesday, June 19, 11:30-13:00

Christopher Eibel, Christian Gulden, Wolfgang Schröder-Preikschat and Tobias Distler.

Strome: Energy-Aware Data-Stream Processing

SESSION 3 (Handling Malicious Behaviors): Tuesday, June 19, 14:30-16:00

Tetiana Yarygina and Christian Otterstad.

A Game of Microservices: Automated Intrusion Response (WIP paper)

Sophie Cerf, Sonia Ben Mokhtar, Sara Bouchenak, Nicolas Marchand and Bogdan Robu.

Dynamic Modeling of Location Privacy Protection Mechanisms

Raad Bin Tareaf, Philipp Berger, Patrick Hennig and Christoph Meinel.

Malicious Behavior Identification in Online Social Networks (WIP paper)

SESSION 4 (Large-scale decentralized systems): Tuesday, June 19, 16:30-17:30

Barbara Guidi, Andrea Michienzi and Laura Ricci.

SONIC-MAN: A distributed protocol for dynamic community detection and management

José Enes, Nuno Machado, Francisco Maia and Miguel Matos.

Totally Ordered Replication for Massive Scale Key-Value Stores

FORTE 2018

JOINT SESSION: Monday, June 18, 11:30-13:00

Yehia Abd Alrahman, Rocco De Nicola, Michele Loreti and Giulio Garbi.

A Distributed Coordination Infrastructure for Attribute-based Interaction

SESSION 1 (Security and Authorization): Monday, June 18, 14:30-16:00

Daniele Nantes-Sobrinho and Jorge A. Pérez.

Relating Process Languages for Security and Communication Correctness (Extended Abstract)

Alexander Sjösten, Daniel Hedin and Andrei Sabelfeld.

Information Flow Tracking for Side-effectful Libraries

Jovanka Pantovic, Ivan Prokic and Hugo Torres Vieira.

A Calculus for Modeling Floating Authorizations

SESSION 2 (Stochastic models): Monday, June 18, 16:30-17:30

Laure Petrucci and Jaco van de Pol.

Parameter Synthesis Algorithms for Parametric Interval Markov Chains

Ruggero Lanotte, Massimo Merro and Andrei Munteanu.

A Modest Security Analysis of Cyber-Physical Systems: A Case Study

BEST PAPERS SESSION: Tuesday, June 19, 11:30-13:00

Jonas Westman and Mattias Nyberg.

Preserving Contract Satisfiability under Non-Monotonic Composition

SESSION 3 (Distributed Systems): Tuesday, June 19, 14:30-16:00

Alain Girault, Gregor Goessler, Rachid Guerraoui, Jad Hamza and Dragos-Adrian Seredinschi.

Monotonic Prefix Consistency in Distributed Systems

Saverio Giallorenzo, Fabrizio Montesi and Maurizio Gabbrielli.

Applied Choreographies

Kim Völlinger and Samira Akili.

On a Verification Framework for Certifying Distributed Algorithms: Distributed Checking and Consistency