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<tr>
<th>DAY</th>
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<td></td>
<td>MONDAY, JUNE 6</td>
<td>TUESDAY, JUNE 7</td>
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<tr>
<td>08:30</td>
<td>Registration</td>
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<td>09:30</td>
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<tr>
<td>10:30</td>
<td>PLENARY Keynote: Vijay Saraswat</td>
<td>PLENARY Keynote: Tim Harris</td>
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<td>COORDINATION Session 1</td>
<td>Joint Session</td>
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<td>RTPBD Workshop</td>
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<td>Social Dinner</td>
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<td>Minos 2 ICE Workshop</td>
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08:30 – 09:30  ____ Registration

Room: Minos 2

09:30 – 10:30  ____ Keynote Speaker: Vijay Saraswat, (Logical and Imperative) Calculi for Distributed COORDINATION

10:30 – 11:00  ____ Break

COORDINATION Session 1
Session chairs: Alberto Lluch Lafuente and José Proença

Room: Minos 2

11:00 – 12:30  ____ Chiara Bodei, Pierpaolo Degano, Gianluigi Ferrari and Letterio Galletta
Where do your IoT ingredients come from?
Ruggero Lanotte and Massimo Merro
A Semantic Theory of the Internet of Things (extended abstract)
Paolo Baldan and Alessandro Beggiaio
Multilevel Transitive and Intransitive Non-Interference, Causally

DAIS Session 1: Decentralized Systems
Session chair: Rui Oliveira

Room: Minos 1

11:00 – 12:30  ____ Svetlana Krasikova, Raziel Carvajal Gomez, Heverson Ribeiro, Etienne Rivière and Valerio Schiavoni
Evaluating the cost and robustness of self-organizing Distributed Hash Tables
Stéphane Delbruel, Davide Frey and François Taiani
Mignon: a Fast Decentralized Content Consumption Estimation in Large-Scale Distributed Systems
Andrea De Salve, Paolo Mori, Laura Ricci, Raed Al-Aaridhi and Kalman Graffi
Privacy-preserving Data Allocation in Decentralized Online Social Networks
FORTE Session 1: Expressiveness
Session chair: Elvira Albert
Room: Pasiphae 1

11:00 – 12:30: Jorge A. Pérez
The Challenge of Typed Expressiveness in Concurrency (Short Paper)
Yehia Abd Alrahman, Rocco De Nicola and Michele Loreti
On the Power of Attribute-based Communication
Ludovic Henrio, Eric Madelaine and Min Zhang
A theory for the composition of concurrent processes

12:30 – 14:30 Lunch

COORDINATION Session 2
Session chair: Farhad Arbab
Room: Minos 2

14:30 – 16:00 Danilo Pianini, Jacob Beal and Mirko Viroli
Improving gossip dynamics through overlapping replicates
Herbert Wiklicky
On Dynamical Probabilities, or: How to learn to shoot straight
Vincenzo Ciancia, Diego Latella and Mieke Massink
On-the-Fly Mean-field Model-checking for Attribute-based Coordination

DAIS Session 2: Cloud 1: Data Processing and Computing
Session chair: Valerio Schiavoni
Room: Minos 1

14:00 – 16:00 Rui C. Gonçalves, José Pereira and Ricardo Jiménez-Peris
An RDMA Middleware for Asynchronous Multi-Stage Shuffling in Analytical Processing
Fábio Coelho, Ricardo Vilaça, Jose Pereira and Rui Oliveira
Holistic Shuffler for the Parallel Processing of SQL Window Functions
Ferran Pérez, Carlos Reaño and Federico Silla
Providing CUDA Acceleration to KVM Virtual Machines in InfiniBand Clusters with rCUDA
João Rodrigues, Joaquim Silva, Rolando Martins, Luís Lopes, Fernando Silva, Utsav Drolia and Priya Narasimhan
Benchmarking Wireless Protocols for Feasibility in Supporting Crowdsourced Mobile Computing
FORTE Session 2: Session types
Session chair: Emilio Tuosto
Room: Pasiphae 1

14:00 – 16:00 ___ Luis Caires and Jorge A. Pérez
  Multiparty Session Types Within A Canonical Binary Theory, and Beyond
  Tzu-Chun Chen, Malte Viering, Andi Bejleri, Lukasz Ziarek and Patrick Eugster
  A Type Theory for Robust Failure Handling in Distributed Systems
  Hugo A. López, Flemming Nielson and Hanne Riis Nielson
  Enforcing Availability in Failure-Aware Communicating Systems
  Carlo Spaccasassi and Vasileios Koutavas
  Type-Based Analysis for Session Inference

16:00 – 16:30 ___ Break

COORDINATION Session 3
Session chair: Mieke Massink
Room: Minos 2

16:30 – 18:00 ___ Kasper Dokter, Sung-Shik T.Q. Jongmans and Farhad Arbab
  Scheduling Games for Concurrent Systems
  Rolf Hennicker, Michel Bidoit and Thanh-Son Dang
  On Synchronous and Asynchronous Compatibility of Communicating Components
  Vashti Galpin
  Modelling ambulance deployment with CARMA

DAIS Session 3: Byzantine Fault Tolerance
Session chair: Rolando Martins
Room: Minos 1

16:30 – 17:30: ___ Bijun Li and Rüdiger Kapitza
  BFT-Dep: Automatic Deployment of Byzantine Fault-Tolerant Services in PaaS Cloud
  Divya Gupta, Lucas Perronne and Sara Bouchenak
  BFT-Bench: Towards a Practical Evaluation of Robustness and Effectiveness of BFT Protocols
FORTE Session 3: Tool Papers

Session chair: Massimo Merro

Room: Pasiphae 1

16:30 – 18:00

Davide Basile, Pierpaolo Degano, Gian-Luigi Ferrari and Emilio Tuosto
Playing with our CAT and Communication-Centric Applications (Tool Paper)

Nicola Atzei and Massimo Bartoletti
Developing honest Java programs with Diogenes (Tool Paper)

Manel Tekaya, Mohamed Taha Bennani, Samir Ben Ahmed and Nedra Ebdelli
SimAutoGen tool: Test vector generation from large scale Matlab/ Simulink models (Tool Paper)
08:30 – 09:30 ____ Registration

**Room: Minos 2**

09:30 – 10:30 ____ **Keynote Speaker: Tim Harris**, *What does the operating system ever do for me? System challenges in graph analytics*

10:30 – 11:00 ____ Break

**Room: Minos 2**

11:00 – 12:30 ____ **Joint Session**

Paula Severi, Luca Padovani, Emilio Tuosto and Mariangiola Dezani-Ciancaglini
*On Sessions and Infinite Data*

Yaroslav Hayduk, Anita Sobe and Pascal Felber
*Enhanced Energy Efficiency with the Actor Model on Heterogeneous Architectures*

Parosh Aziz Abdulla, Mohamed Faouzi Atig, Stefanos Kaxiras, Carl Leonardsson, Alberto Ros and Yunyun Zhu
*Fencing Programs with Self-Invalidation and Self-Downgrade*

12:30 – 14:30 ____ Lunch

**COORDINATION Session 4**

*Session chair: Simon Bliudze*

**Room: Minos 2**

14:30 – 16:00 ____ Justine Rochas and Ludovic Henrio
*From Modelling to Systematic Deployment of Distributed Active Objects*

Kiko Fernandez-Reyes, Dave Clarke and Daniel S. McCain
*ParT: An Asynchronous Parallel Abstraction for Speculative Pipeline Computations*

Mischael Schill, Christopher M. Poskitt and Bertrand Meyer
*An Interference-Free Programming Model for Network Objects*
### DAIS Session 4: Cloud 2: Resource Management

**Session chair:** Rüdiger Kapitza

**Room:** Minos 1

**14:00 – 16:00**

1. **Bo Zhang, Filip Krikava, Romain Rouvoy and Lionel Seinturier**
   *Self-Balancing Job Parallelism and Throughput in Hadoop*

2. **Francisco Cruz, Francisco Maia, Miguel Matos, Rui Oliveira, João Paulo and Ricardo Vilaça**
   *Resource usage prediction in distributed key-value datastores*

3. **Dorian Burihabwa, Pascal Felber, Hugues Mercier and Valerio Schiavoni**
   *A Performance Evaluation of Erasure Coding Libraries for Cloud-Based Data Stores*

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### FORTE Session 4: Self-stabilization & Formal methods in practice

**Session chair:** David de Frutos

**Room:** Pasiphae 1

**14:00 – 15:30**

1. **Karine Altisen, Stéphane Devisme and Pierre Corbineau**
   *A Framework for Certified Self-Stabilization*

2. **Fathiyeh Faghih, Borzoo Bonakdarpour, Sebastien Tixeuil and Sandeep S. Kulkarni**
   *Specification-based Synthesis of Distributed Self-Stabilizing Protocols*

3. **Luís Cruz-Filipe and Fabrizio Montesi**
   *Choreographies in Practice (Short Paper)*

4. **Francesco Mercaldo, Vittoria Nardone, Antonella Santone and Corrado Aaron Visaggio**
   *Ransomware Steals your Phone. Formal Methods Rescue it. (Short Paper)*

**15:30 – 16:00** Break

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### DAIS Session 5: Complex Event Processing

**Session chair:** Evangelia Kalyvianaki

**Room:** Minos 1

**16:00 – 17:30**

1. **Nikos Zacheilas, Vana Kalogeraki, Nikolaos Zygouras, Nikolaos Panagiotou and Dimitrios Gunopulos**
   *Dynamic Load Balancing Techniques for Distributed Complex Event Processing Systems*

2. **Lukas Probst, Ivan Giangreco and Heiko Schuldt**
   *PAN - Distributed Real-Time Complex Event Detection in Multiple Data Streams*

3. **Alexandre Garnier, Jean-Marc Menaud and Nicolas Montavont**
   *Bringing Complex Event Processing into Multitree Modelling of Sensors*

**20:30** Social Dinner
**Day 3: Wednesday, June 8**

08:30 – 09:30 ____ Registration

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Room: Minos 2

09:30 – 10:30 ____ Keynote Speaker: Catuscia Palamidessi, *Verifying Generalized Differential Privacy in Concurrent Systems*

10:30 – 11:00 ____ Break

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**COORDINATION Session 5**  
*Session chair: Emilio Tuosto*

Room: Minos 2

11:00 – 12:30 ____ Franco Barbanera and Ugo De’ Liguoro  
*A game interpretation of retractable contracts*

Vitaly Buravlev, Rocco De Nicola and Claudio Antares Mezzina  
*Tuple spaces implementations and their efficiency*

Hernan Melgratti and Christian Roldan  
*A Formal Analysis of the Global Sequence Protocol*

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**FORTE Session 5: Verification and Testing**  
*Session chair: Alexandra Silva*

Room: Pasiphae 1

11:00 – 12:30 ____ Ákos Hajdu, Tamás Tóth, András Vörös and Istvan Majzik  
*A Configurable CEGAR Framework with Interpolation-based Refinements*

Alexandre Petrenko, Omer Landry Nguena Timo and S Ramesh  
*Multiple Mutation Testing from FSM*

David De Frutos Escrig, Jeroen J.A. Keiren and Tim A.C. Willemse  
*Branching Bisimulation Games*

12:30-14:00 ____ Lunch Break

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Room: Minos 2

14:00 – 18:00 ____ ICE Workshop
09:30-18:00 _____ ICE Workshop

09:30-18:00 _____ RTPBD Workshop

**SOCIAL DINNER**

**Tuesday, June 7 2016 at 20:30**

Plaka, Elounda

There will be a Shuttle Bus Service from Aquila Atlantis at 17:30.

The road from Elounda continues following the coastline of the beautiful Bay of Mirambello, to the small village called Plaka, opposite the island of Spinalonga. Plaka is a tiny fishing village featuring pebble beaches that are relatively uncrowded. The beach on the east side is called Agia Marina and it is named after a nearby Byzantine church. On the west side of the village you find Plaka beach, where tamarisk trees give you some shade.
Venue
Aquila Atlantis Hotel
Ygeias 2, 71202 Heraklion

Badges
You are kindly requested to wear your badge throughout the duration of the Conference.

Organizing Secretariat:

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