

DISC 2012

The 26th International Symposium on DIStributed Computing

Pestana Bahia Hotel
Salvador, Bahia, Brazil
October 16-18, 2012
<http://www.lasid.ufba.br/disc2012>

Presentation and Scope

The International Symposium on DIStributed Computing (DISC) is an international forum on the theory, design, analysis, implementation and application of distributed systems and networks.

DISC 2012 is organized by the Distributed Systems Laboratory (LaSiD) at Federal University of Bahia (UFBA), in cooperation with European Association for Theoretical Computer Science (EATCS) and Brazilian Computer Society (SBC).

Topics of interest of DISC 2012 include, but are not limited to, the following:

- Distributed algorithms; correctness and complexity
- Concurrency, synchronization, and transactional memory
- Distributed operating systems, middleware, database systems
- Self-stabilizing, self-organizing, and autonomic systems
- Wireless, mobile, sensor and ad-hoc networks
- Fault tolerance, reliability, availability
- Game-theoretic approaches to distributed computing
- Specification, verification, and testing: tools, methodologies
- Networks: protocols, architectures, services, applications
- Multiprocessor and multicore architectures and algorithms
- Security in distributed computing, cryptographic protocols
- Distributed computing issues in cloud computing and the Internet

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Program

The program will consist of selected paper presentations, workshops, lectures, and tutorials. Workshops will cover themes on distributed graph algorithms, distributed game theory and social networks. Tutorials and lectures will be given by invited professors and researchers, as follows:

Tutorials

- *Beyond the glamour of Byzantine fault tolerance: OR why resisting intrusions means more than BFT* (Paulo Verissimo)
- *An introduction to distributed computing by mobile entities: agents, robots, sensors* (Nicola Santoro)
- *Implementing concurrent objects in multiprocessor machines* (Michel Raynal)
- *System-level diagnosis: a stroll through 45 years of research on diagnosable systems* (Elias P. Duarte Jr.)

Lectures

- *Towards Haskell in the cloud* (Simon Peyton-Jones)
- *Launching academic ideas into the real world* (Yehuda Afek)

Steering Committee

Sergio Rajsbaum (**chair**), UNAM
Marcos K. Aguilera, Microsoft Research
Shlomi Dolev, Ben-Gurion U. of the Negev
Antonio Fernandez Anta, Inst. IMDEA Networks
Chryssis Georgiou, University of Cyprus
Nancy Lynch, MIT
David Peleg, Weizmann Institute

Organizing Committee

Raimundo Macêdo (**chair, tutorial chair**), UFBA
Aline Andrade, UFBA
Flávio Assis, UFBA
Marcos Barreto, UFBA
Sérgio Gorender, UFBA

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