

4th Interaction and Concurrency Experience

ICE 2011: Reliable and Contract-based Interaction

Satellite workshop of DisCoTec'11

9th of June 2011, Reykjavik, Iceland

<http://www.artist-embedded.org/artist/-ICE-2011-.html>



Important Dates

Abstract submission: 28 March 2011
Full paper submission: 4 April 2011
Interactive reviews: 11 April - 7 May 2011
Notification to authors: 9 May 2011

Highlights

Innovative selection procedure
Special issue of SACS

Invited talks

To be announced

Scope

Interaction and Concurrency Experiences (ICEs) is a series of international scientific meetings oriented to theoretical computer science researchers with special interest in models, verification, tools and programming primitives for complex interactions. The general scope of the venue includes theoretical and applied aspects of interactions and the handshaking mechanisms used among actors of concurrent/distributed systems, but every experience focuses on a different specific topic related to several areas of computer science in the broad spectrum ranging from formal specification and analysis to studies inspired by emerging computational models.

The theme of ICE 2011 is **Reliable and Contract-based Interactions**. Reliable interactions are, e.g., those providing suitable guarantees on the overall behaviour of interactive systems, enjoying suitable logical safety/liveness properties, adhering to certain QoS standards, offering certain levels of trust/security. Contract-based interactions are those where the interacting entities are committed to give certain guarantees whenever certain assumptions are met by their operating environment (including other autonomous entities and networking middleware). This way, contracts can be used to define faulty and malicious behaviours and to identify the responsible in case of contract violation or abuse.

Topics of interest include, but shall not be limited to:

- logic and types for interactions
- concurrent models and semantics
- techniques and tools for specification, analysis, verification of guaranteed interaction
- programming primitives for interactions
- languages, protocols and mechanisms for sound coordination
- “by construction” guarantees for interaction
- expressiveness results
- formal languages for contracts
- formal analysis of contracts
- contract negotiation, discovery and monitoring

Selection Procedure

The workshop proposes an innovative paper selection mechanism based on an interactive discussion amongst authors and PC members. As witnessed by the past two editions of ICE, this

considerably improves the accuracy of the feedback from reviews, the fairness of the selection, the quality of accepted papers, and the discussion during the workshop.

During the review phase, each submitted paper is published on a Wiki and associated with a discussion forum whose access will be restricted to the authors and to all the PC members not in conflict of interests. The PC members post comments / questions which the authors shall reply to.

The Public Wiki

After the notification, the accepted papers will be published on a public forum, the rationale being to initiate public discussions that will trigger and stimulate the scientific debate of the workshop. We argue that this will drive the workshop discussions and let perspective participants to interact with each other well in advance with respect to the modus operandi of more traditional events.

Submission Guidelines

Papers must report previously unpublished work and not be simultaneously submitted to other conferences / workshops with refereed proceedings. The ICE 2011 post-proceedings will be published in *Electronic Proceedings in Theoretical Computer Science*. Submissions must be made electronically in PDF format via *EasyChair* and should not exceed **15 pages with EPTCS style**. Accepted papers must be presented at the workshop by one of the authors.

Special Issue

Full version of the best papers selected by the PC will be invited to appear in a special issue of the journal of Scientific Annals of Computer Science (<http://www.info.uaic.ro/bin/Annals/>). Such contributions will be regularly peer-reviewed according to the standard journal policy, but they will be handled in a shorter time than regular submissions.

ICEcreamers

Simon Bliudze (CEA LIST, France; co-chair)
Roberto Bruni (Univ. of Pisa, Italy)
Marco Carbone (IT University of Copenhagen, Denmark)
Alexandra Silva (CWI, Netherlands; co-chair)

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