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**UNU-IIST**

International Institute for  
Software Technology

# ICTAC 2008 5th International Colloquium on Theoretical Aspects of Computing

1-3 September 2008

The Marmara, Istanbul, Turkey

(Tutorials & Workshops 30-31 August 2008, Sabancı University, Istanbul)

[www.ictac.net/ictac08](http://www.ictac.net/ictac08)

The ICTAC series, founded by the United Nations University's International Institute of Software Technology (UNU-IIST), brings together practitioners and researchers from academia, industry and government to present research and to exchange ideas and experience addressing challenges in both theoretical aspects of computing and in the exploitation of theory through methods and tools for system development. A further aim is to promote cooperation in research and education between participants and institutions from developing and industrial countries, as in the United Nations University's mandate. The previous four ICTAC events were held in Guiyang, China (2004), Hanoi, Vietnam (2005), Tunis, Tunisia (2006) and Macau (2007).

In 2008, topics include, but are not limited to:

- software specification, refinement, verification and testing
- model checking and theorem proving
- software architectures
- coordination and feature interaction
- integration of theories, formal and engineering methods and tools
- models of concurrency, security, and mobility
- parallel, distributed, and internet-based (grid) computing
- real-time, embedded and hybrid systems
- automata theory and formal languages
- principles and semantics of languages
- logics and their applications
- type and category theory in computer science
- case studies, theories, tools and experiments of verified systems
- service-oriented architectures: models and development methods
- domain modelling and domain-specific technology: examples, frameworks and experience

We particularly welcome submissions for a special track on **Tool Support for Formal Methods of System Development**: from the foundations of tools, through their design to application and evaluation.

## Paper Submissions

Submissions to the conference must not have been published or be concurrently considered for publication elsewhere. All submissions will be judged on the basis of originality, contribution to the field, technical and presentation quality, and relevance to the conference. Papers should be in English and should not exceed 15 pages LNCS format (see <http://www.springer.de/comp/lncs/authors.html> for details). Submission constitutes a commitment to attend and present a paper, if accepted.

Proceedings of the previous ICTAC colloquia were published by Springer in the LNCS series. We plan to do the same this year.

**Submission Procedure:** Further information and instructions can be found at the conference website <http://www.ictac.net/ictac08>

**Tutorials & Workshops:** We welcome proposals for tutorials and workshops relevant to the ICTAC themes to take place on 30-31 August 2008. Proposers should contact the Organising Chair (yenigun@sabanciuniv.edu). The closing date for **workshop** proposals is 7 April 2008, with notification on 30 April 2008. The closing date for **tutorial** proposals is 9 June 2008, with notification on 30 June 2008.

## Important Dates

### Papers:

Submission: 11 April 2008

Notification of acceptance: 19 May 2008

Final copy for proceedings: 2 June 2008

ICTAC 2008: 1-3 September 2008

### Workshops:

Submission: 7 April 2008

Notification of acceptance: 30 April 2008

ICTAC 2008 Workshops & Tutorials: 30-31 August 2008

### Tutorials:

Submission: 9 June 2008

Notification of acceptance: 30 June 2008

ICTAC 2008 Workshops & Tutorials: 30-31 August 2008

## Chairs & Contacts

**General Chair:** Mike Reed, UNU-IIST

**Organising Chair:** Husnu Yenigun (yenigun@sabanciuniv.edu), Sabanci University, Istanbul

### Programme Chairs:

John Fitzgerald, Newcastle University, UK (John.Fitzgerald@ncl.ac.uk)

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**Publicity Chair:** Jeremy Bryans, Newcastle University, UK

**Steering Committee:** John Fitzgerald, UK; Martin Leucker, Germany; Zhiming Liu (Chair), UNU-IIST, Macao; Tobias Nipkow, Germany; Augusto Sampaio, Brazil; Natarajan Shankar, USA; Jim Woodcock, UK