



**WCC**  
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# 4<sup>th</sup> IFIP International Conference on Theoretical Computer Science

IFIP  
World Computer Congress  
Santiago de Chile



**August 22-24, 2006**

4<sup>th</sup> IFIP International Conference on Theoretical Computer Science

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## Submission to:

<http://www.wcc-2006.org/tc1>

## IMPORTANT DATES

**Deadline:** January 15, 2006

## Notification

**acceptance/rejection:** March 15, 2006

**Camera Ready deadline:** April 7, 2006

**Conference 2006:** August 22 - 24, 2006

<http://www.wcc-2006.org>

Sponsored by IFIP TC1 on Foundations of Computer Science, in cooperation with SIGACT and EATCS.

## Topics

We seek papers on theoretic and fundamental aspects in Computer Science, in particular (but not exclusively) of the following areas

- Algorithms, Complexity and Models of Computation:
  - Algorithms in algebra and number theory
  - Analysis and design of algorithms
  - Automata and formal languages
  - Cellular automata and systems
  - Combinatorial, graph and optimization algorithms
  - Computational and mathematical finance
  - Computational learning theory
  - Continuous algorithms and complexity
  - Computational complexity
  - Computational geometry
  - Cryptography
  - Distributed computing
  - Descriptive complexity
  - Evolutionary and genetic computing
  - Experimental algorithms
  - Mobile computing
  - Molecular computing and algorithmic aspects of bioinformatics
  - Network computing
  - Neural computing
  - Parallel and distributed algorithms
  - Probabilistic and randomized algorithms
- Quantum computing
- Structural information and communication complexity
- Logic, Semantics, Specification and Verification:
  - Automated theorem proving
  - Concurrency theory
  - Constructive and non-standard logics in computer science
  - Databases
  - Logic and semantics for programs and languages
  - Logic and functional programming
  - Logic, specification and verification of hybrid and real-time systems
  - Parallel and distributed systems
  - Proofs and specifications in computer science
  - Software concepts
  - Specification and verification of hardware and software
  - Security
  - Semantic Web
  - Term rewriting systems
  - Type and category theory in computer science

## Paper submission:

The proceedings will be published by SSBM (Springer Science and Business Media), in the IFIP book series. Submissions, as well as final versions, are limited to 12 pages sharp, in the final SSBM format. The instructions for preparing the papers can be downloaded from <ftp://ftp.springer.de/pub/tex/latex/ifip> or <http://www.springeronline.com/sgw/cda/frontpage/0,11855,4-40492-0-0-0,00.html> or consulted at <http://www.springeronline.com>. Only electronic submissions will be accepted, via the web site <http://www.wcc-2006.org/tc1>, before **January 15, 2006**. Authors will be notified of acceptance or rejection via e-mail by **March 15, 2006**.

The results of the paper must be unpublished and not submitted for publication elsewhere, including journals and the proceedings of other symposia or workshops. One author of each accepted paper should present it at the conference. Unprintable or overlength submissions may be rejected without consideration of their merits.

## INVITED SPEAKERS

Marcelo Arenas, Pontificia Universidad Católica de Chile  
Marcos Kiwi, Universidad de Chile  
Mihalis Yannakakis, Columbia University, USA

