

## Preface

### Volume 85, Issue 1

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#### Abstract

#### FGC: Foundations of Global Computing

This volume contains the proceedings of the international workshop *FGC: Foundations of Global Computing*. The workshop was held in Eindhoven, The Netherlands, on 28-29 June, 2003 under the auspices of *EATCS*, the European Association of Theoretical Computer Science, as a satellite event of the 30th International Colloquium on Automata, Languages and Programming, *ICALP 2003*.

**FGC** evolves out two previous events, **ConCoord** (2001) and **F-WAN** (2002), both deeply related to Global Computing. The growing diffusion of internet services and applications is promoting Global Computing as an emerging model of computation. Based on mobility of code and computation on networks with highly dynamic topologies, the model needs effective infrastructures to support the coordination and control of components loaded at runtime from untrusted sources, as well as semantic frameworks to reason on the behaviour and properties of applications.

*Foundations of Global Computing* focused on foundational aspects of Global Computing, as its name indicates. The scientific programme consisted of four invited presentations and seven contributed papers, selected from a body of submissions ranging from calculi, models, and semantic theories of concurrent, distributed, mobile, global systems to languages, security and types for global scenarios. The *Invited Speakers* provided a representative sample of leading research in the area, touching upon protocol analysis, web services, and language-based security for quantitative resource analysis and Grid computing. And precisely:

**Cédric Fournet**(Microsoft Research), *Private Authentication*

**Andrew D. Gordon**(Microsoft Research), *Formal Tools for Securing Web Services*

**Robert Harper**(CMU), *Trusted Grid Computing in ConCert*

**Martin Hofmann** (LMU Munich), *Mobile Resource Guarantees*

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(LMU Munich)

Beside thanking Programme Committee members and Invited Speakers for their formidable contribution, I thankfully acknowledge the help of the following **Referees**: Lennart Beringer, Roberto Bruni, Luís Caires, Tom Chothia, Gianluigi Ferrari, Daniele Gorla, Michal Konecny, Francesca Levi, Michele Loreti, D. Pattinson, Rosario Pugliese, Emilio Tuosto, and Nobuko Yoshida.

A warm thank goes to the impeccable ICALP 2003 **Workshops Organising Committee**: Tijn Borghuis, Anne-Meta Oversteegen, and Erik de Vink. Last, but not least, I wish to thank the EATCS for their fundamental contribution, which ultimately has made the meeting possible.

August 2003  
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