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Principles of Distributed Systems

9th International Conference, OPODIS 2005
Pisa, Italy, December 12-14, 2005
Revised Selected Papers

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Preface

The 9th International Conference on Principles of Distributed Systems (OPODIS 2005) was held during December 12–14, 2005 in Pisa, Italy. It continued a tradition of successful conferences with friendly and pleasant atmospheres. Previous OPODIS conferences were held in Chantilly (1997), Amiens (1998), Hanoi (1999), Paris (2000), Mexico (2001), Reims (2002), La Martinique (2003), and Grenoble (2004).

The OPODIS conference constitutes an open forum for the exchange of state-of-the-art knowledge on distributed computing and systems among researchers from around the world. Following the tradition of the previous events, the 2005 program was composed of high-quality contributed papers by experts of international caliber in this scientific area. Papers were sought soliciting original research contributions to the theory, specifications, design and implementation of distributed systems, including:

- communication and synchronization protocols
- distributed algorithms, multiprocessor algorithms
- distributed collaborative environments
- embedded systems
- fault-tolerance, reliability, availability
- grid and cluster computing
- location- and context-aware systems
- mobile computing and networks
- peer-to-peer systems, overlay networks
- performance analysis of distributed algorithms and systems
- real-time systems
- security issues in distributed computing and systems
- sensor networks
- specification verification and testing of distributed systems

This year, a particular focus was placed on real-time systems and wireless networks.

In response to the call for papers for OPODIS 2005, 109 papers in the above areas were submitted from 30 countries from around the world. Each paper was reviewed by at least three reviewers, and judged according to scientific and presentation quality, originality and relevance to the conference topics. The Program Committee selected 30 papers for presentation at the conference. In addition to the submitted technical papers, the program included two exciting invited talks, by David Peleg (Weizmann Institute of Science, Israel), and by Giorgio Buttazzo (Scuola Superiore S. Anna of Pisa). We are grateful that these two distinguished experts accepted our invitation to share with us their views on various aspects of the field.

It is impossible to organize a successful program without the help of many individuals. We would like to express our appreciation to the authors of the submitted papers, the Program Committee members and the external referees. We would also like to thank the OPODIS Steering Committee members, in particular the chairman Philippas Tsigas, who supervised and supported the continuation of this event. We owe special thanks to the Organizing Committee chair, Giuseppe Prencipe (Università di Pisa, Italy), the publicity chair, Thomas Moscibroda (ETH Zurich, Switzerland), and Andreas Wetzel (ETH Zurich, Switzerland) for his assistance with the electronic submission and reviewing system.

December 2005

James H. Anderson and Roger Wattenhofer

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OPODIS 2005 was organized by the Dipartimento di Informatica, Università di Pisa, Italy.

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