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Scientific Engineering of Distributed Java Applications

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Revised Papers



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Preface

FIDJI 2003 was an international forum for researchers and practitioners interested in the advances in, and applications of, software engineering for distributed application development. Concerning the technologies, the workshop focused on “Java-related” technologies. It was an opportunity to present and observe the latest research, results, and ideas in these areas.

All papers submitted to this workshop were reviewed by at least two members of the International Program Committee. Acceptance was based primarily on originality and contribution. We selected, for these post-workshop proceedings, 14 papers, amongst 29 submitted, two tutorials, and one keynote talk.

FIDJI 2003 aimed at promoting a scientific approach to software engineering. The scope of the workshop included the following topics:

- design of distributed Java applications
- Java-related technologies
- software and system architecture engineering and development methodologies
- development methodologies for UML
- development methodologies for reliable distributed systems
- component-based development methodologies
- management of evolutions/iterations in the analysis, design, implementation, and test phases
- dependability support during system life-cycles
- managing inconsistencies during application development
- atomicity and exception handling in system development
- software architectures, frameworks, and design patterns for developing distributed systems
- integration of formal techniques in the development process
- formal analysis and grounding of modeling notation and techniques (e.g., UML, metamodeling)
- supporting the security requirements of distributed applications in the development process
- refactoring methods
- industrial and academic case studies
- development and analysis tools

The organization of such a workshop represents an important amount of work. We would like to acknowledge all the program committee members, all the additional referees, all the organization committee members, the University of Luxembourg, the Faculty of Science, Technology and Communication administrative, scientific, and technical staff, and the Henri-Tudor public research center.

FIDJI 2003 was mainly supported by the “Ministère de la Culture, de l’Enseignement supérieur et de la Recherche” and by the “Fond National pour la Recherche au Luxembourg.”

November 2003

Nicolas Guelfi, Egidio Astesiano, Gianna Reggio

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