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Algorithms and Computation

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Proceedings

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Preface

The papers in this volume were presented at the 22nd International Symposium on Algorithms and Computation (ISAAC 2011), held in Yokohama, Japan, during December 5-8, 2011. In the past, ISAAC was held in Tokyo (1990), Taipei (1991), Nagoya (1992), Hong Kong (1993), Beijing (1994), Cairns (1995), Osaka (1996), Singapore (1997), Taejon (1998), Chennai (1999), Taipei (2000), Christchurch (2001), Vancouver (2002), Kyoto (2003), Hong Kong (2004), Hainan (2005), Kolkata (2006), Sendai (2007), Gold Coast (2008), Hawaii (2009), and Jeju (2010).

ISAAC is an annual international symposium that covers the very wide range of topics in algorithms and computation. The main purpose of the symposium is to provide a forum for researchers working in algorithms and the theory of computation where they can exchange ideas in this active research community. In response to the call for papers, ISAAC 2011 received 187 submissions from 42 countries. Each submission was reviewed by at least three Program Committee members with the assistance of external referees. Since there were many high-quality papers, the Program Committee's task was extremely difficult. Through an extensive discussion, the Program Committee selected 76 papers. Two special issues, one of *Algorithmica* and one of the *International Journal of Computational Geometry and Applications*, were prepared with selected papers from ISAAC 2011.

The best paper award was given to “Linear-Time Algorithms for Hole-Free Rectilinear Proportional Contact Graph Representations” by Muhammad Jawaherul Alam, Therese Biedl, Stefan Felsner, Andreas Gerasch, Michael Kaufmann and Stephen G. Kobourov. The best student paper award was given to “Fixed-Parameter Complexity of Feedback Vertex Set in Bipartite Tournaments” by Sheng-Ying Hsiao. Two eminent invited speakers, Sanjeev Arora from Princeton University, USA, and Dorothea Wagner from Karlsruhe Institute of Technology, Germany, also contributed to this volume.

We would like to thank all Program Committee members and external referees for their excellent work in the reviewing process. We would like to thank all authors who submitted papers for consideration; they all contributed to the high quality of the symposium. We would also like to thank the Organizing Committee members for their dedicated contribution that made the symposium possible and enjoyable. Finally, we would like to thank our sponsors and supporting organizations for their assistance and support.

December 2011

Takao Asano
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