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Jin Akiyama · Hiro Ito Toshinori Sakai (Eds.)

# Discrete and Computational Geometry and Graphs

16th Japanese Conference, JCDCGG 2013 Tokyo, Japan, September 17–19, 2013 Revised Selected Papers



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#### **Preface**

This volume consists of the peer-reviewed papers of the 16th Japan Conference on Discrete and Computational Geometry and Graphs (JCDCG<sup>2</sup> 2013), which were held during September 17–19, 2013 at Tokyo University of Science, Tokyo, Japan.

The previous conferences were held in Tokyo as JCDCG 1997, 1998, 1999, 2000, 2002, 2004, 2006, and 2011 (Japan Conference on Discrete and Computational Geometry; including domestic conferences); in Kyoto as KyotoCGGT 2007 (Kyoto International Conference on Computational Geometry and Graph Theory); and in Kanazawa as JCCGG 2009 (Japan Conference on Computational Geometry and Graphs). Other conferences in this series were also held in the Philippines (2001), Indonesia (2003), China (2005, 2010), and Thailand (2012). The proceedings of these conferences were published by Springer as a part of the LNCS series in volumes 1763, 2098, 2866, 3330, 3742, 4381, 4535, 7033, and 8296. The proceedings of the fifth and twelfth conferences (2001 and 2009) were published by Springer-Verlag as special issues of the journal Graphs and Combinatorics, Vol. 18, No. 4, 2002 and Vol. 27, No. 3, 2011.

The organizers of JCDCG<sup>2</sup> 2013 thank the following invited speakers, Sergey Bereg, Erik Demaine, Ferran Hurtado, Ken-ichi Kawarabayashi, David Kirkpatrick, Stefan Langerman, Janos Pach, Kokichi Sugihara, and Jorge Urrutia, for their fruitful talks. They also gratefully acknowledge the support of the conference secretariat, the speakers, and all of the participants of the conference.

September 2014

Jin Akiyama Hiro Ito Toshinori Sakai

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