

Parameterized and Exact Computation

First International Workshop, IWPEC 2004, Bergen, Norway, September 14-17, 2004, Proceedings

The central challenge of theoretical computer science is to deploy mathematics in ways that serve the creation of useful algorithms. In recent years there has been a growing interest in the two-dimensional framework of parameterized complexity, where, in addition to the overall input size, one also considers a parameter, with a focus on how these two dimensions interact in problem complexity. This book presents the proceedings of the 1st International Workshop on Parameterized and Exact Computation (IWPEC 2004, <http://www.iwpec.org>), which took place in Bergen, Norway, on September 14–16, 2004. The workshop was organized as part of ALGO 2004. There were seven previous workshops on the theory and applications of parameterized complexity. The first was organized at the Institute for the Mathematical Sciences in Chennai, India, in September, 2000. The second was held at Dagstuhl Castle, Germany, in July, 2001. In December, 2002, a workshop on parameterized complexity was held in conjunction with the FST-TCS meeting in Kanpur, India. A second Dagstuhl workshop on parameterized complexity was held in July, 2003. Another workshop on the subject was held in Ottawa, Canada, in August, 2003, in conjunction with the WADS 2003 meeting. There have also been two Barbados workshops on applications of parameterized complexity. In response to the IWPEC 2004 call for papers, 47 papers were submitted, and from these the program committee selected 25 for presentation at the workshop. In addition, invited lectures were accepted by the distinguished researchers Michael Langston and Gerhard Woeginger.

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53,49 €
49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783540230717
Medium: Buch
ISBN: 978-3-540-23071-7
Verlag: J.B. Metzler
Erscheinungstermin: 06.09.2004
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2004
Serie: Lecture Notes in Computer Science
Produktform: Kartoniert
Gewicht: 470 g
Seiten: 298
Format (B x H): 155 x 235 mm

