

EDITORIAL

(Selected Papers of the 14th Workshop on
Descriptive Complexity of Formal Systems
Braga, Portugal, July 23–25, 2012)

The complexity of finite descriptions of infinite objects is the main investigation subject of *descriptive complexity*, one of the traditional areas of computer science. Because of the wide interest and the many research activities in this field, in 1997 the International Federation for Information Processing (IFIP) founded the Working Group 1.2 (WG 1.2) on Descriptive Complexity. Since then, IFIP WG 1.2 promotes a series of workshops related to this field.

Descriptive Complexity of Automata, Grammars and Related Systems (DCA-GRS) was held in Magdeburg, Germany (1999), London, Ontario, Canada (2000), and Vienna, Austria (2001). Formal Descriptions and Software Reliability (FDSR) was held in Paderborn, Germany (1998), Boca Raton, Florida, USA (1999), and San Jose, California, USA (2000). They were followed by the workshop on Descriptive Complexity of Formal Systems (DCFS), which is the successor and the merger of these two events. The first edition of DCFS was held in London, Ontario (2002) and it was followed by Budapest, Hungary (2003), London, Ontario, Canada (2004), Como, Italy (2005), Las Cruces, New Mexico, USA (2006), Nový Smokovec, High Tatras, Slovakia (2007), Charlottetown, Prince Edward Island, Canada (2008), Magdeburg, Germany (2009), Saskatoon, Saskatchewan, Canada (2010), and Giessen/Limburg, Germany (2011). Braga, Portugal (2012).

In 2012, Descriptive Complexity of Formal Systems (DCFS 2012) took place in Braga, Portugal, July 23–25. The workshop was organized by University of Porto and University of Minho with the support of University of Beira Interior. More information can be found on the conference website <http://www.dcc.fc.up.pt/DCFS12/>.

After a careful refereeing process, four invited papers and 20 submitted papers were presented at DCFS 2012. This volume includes 13 papers in revised and extended form, after a standard refereeing process.

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