

Developments in Language Theory

11th International Conference, DLT 2007, Turku, Finland, July 3-6, 2007, Proceedings

This book constitutes the refereed proceedings of the 11th International Conference on Developments in Language Theory, DLT 2007, held in Turku, Finland in July 2007. It addresses all important issues in language theory including grammars, acceptors and transducers for words, trees and graphs; algebraic theories of automata; relationships to cryptography, concurrency, complexity theory and logic; bioinspired computing, and quantum computing.

The 11th International Conference on Developments in Language Theory (DLT 2007) was held at the University of Turku, Finland, July 3–6, 2007. This was the second time DLT took place in Turku. Indeed, the very first meeting was organized in Turku in 1993. Consequent meetings were held in Magdeburg (1995), Thessaloniki (1997), Aachen (1999), Vienna (2001), Kyoto (2002), Szeged (2003), Auckland (2004), Palermo (2005), and Santa Barbara (2006). The conference series is held under the auspices of the European Association for Theoretical Computer Science. The DLT meeting can be viewed as the main conference on automata and formal language theory. The current topics of the conference include the following: grammars, acceptors and transducers for strings, trees, graphs and arrays, efficient text algorithms, algebraic theories for automata and languages, combinatorial and algebraic properties of words and languages, variable-length codes, symbolic dynamics, decision problems, relations to complexity theory and logic, picture description and analysis, polyominoes and bidimensional patterns, cryptography, concurrency, bio-inspired computing, quantum computing. This volume of Lecture Notes in Computer Science contains the papers that were presented at DLT 2007, including the abstracts or full papers of the six invited speakers Volker Diekert (Stuttgart), Thomas Henzinger (Lausanne), Michal Kunc (Brno), Ming Li (Waterloo), Jacques Sakarovitch (Paris), and Kai Salomaa (Kingston). For the conference, 32 contributed papers were selected from a record-breaking 74 submissions. We warmly thank the authors of the papers, the members of the Program Committee, who faced many hard decisions, and the reviewers of the submitted papers for their valuable work.



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