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6th International Conference, LATA 2012
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Proceedings

Volume Editors

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Preface

These proceedings contain the papers that were presented at the 6th International Conference on Language and Automata Theory and Applications (LATA 2012), held in A Coruña, Spain, during March 5–9, 2012.

The scope of LATA is rather broad, including: algebraic language theory; algorithms for semi-structured data mining; algorithms on automata and words; automata and logic; automata for system analysis and program verification; automata, concurrency and Petri nets; automatic structures; cellular automata; combinatorics on words; computability; computational complexity; computational linguistics; data and image compression; decidability questions on words and languages; descriptonal complexity; DNA and other models of bio-inspired computing; document engineering; foundations of finite-state technology; foundations of XML; fuzzy and rough languages; grammars (Chomsky hierarchy, contextual, multidimensional, unification, categorial, etc.); grammars and automata architectures; grammatical inference and algorithmic learning; graphs and graph transformation; language varieties and semigroups; language-based cryptography; language-theoretic foundations of artificial intelligence and artificial life; parallel and regulated rewriting; parsing; pattern recognition; patterns and codes; power series; quantum, chemical and optical computing; semantics; string and combinatorial issues in computational biology and bioinformatics; string processing algorithms; symbolic dynamics; symbolic neural networks; term rewriting; transducers; trees, tree languages and tree automata; and weighted automata.

LATA 2012 received 114 submissions. Each one was reviewed by three Program Committee members, many of whom consulted with external referees. After a thorough and lively discussion phase, the committee decided to accept 41 papers (which represents an acceptance rate of 35.96%). The conference program also included three invited talks and two invited tutorials. Part of the success in the management of such a large number of submissions is due to the excellent facilities provided by the EasyChair conference management system.

We would like to thank all invited speakers and authors for their contributions, the Program Committee and the reviewers for their cooperation, and Springer for its very professional publishing work.

December 2011

Adrian-Horia Dediu
Carlos Martín-Vide

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LATA 2012 was organized by the Language in the Information Society Research Group—LYS—from the University of A Coruña, Spain, and the Research Group on Mathematical Linguistics—GRLMC—from the University Rovira i Virgili, Tarragona, Spain.

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