9th INTERNATIONAL CONFERENCE ON LANGUAGE AND AUTOMATA THEORY AND APPLICATIONS

LATA 2015

Nice, France

March 2-6, 2015

Organized by:

CNRS, I3S, UMR 7271
Nice Sophia Antipolis University

Research Group on Mathematical Linguistics (GRLMC)
Rovira i Virgili University

http://grammars.grlmc.com/lata2015/

AIMS:

LATA is a conference series on theoretical computer science and its applications. Following the tradition of the diverse PhD training events in the field developed at Rovira i Virgili University in Tarragona since 2002, LATA 2015 will reserve significant room for young scholars at the beginning of their career. It will aim at attracting contributions from classical theory fields as well as application areas.

VENUE:

LATA 2015 will take place in Nice, the second largest French city on the Mediterranean coast. The venue will be the University Castle at Parc Valrose.

SCOPE:

Topics of either theoretical or applied interest include, but are not limited to:

- algebraic language theory
- algorithms for semi-structured data mining
- algorithms on automata and words
- automata and logic
- automata for system analysis and programme verification
- automata networks
- automata, concurrency and Petri nets
- automatic structures
- cellular automata
- codes
- combinatorics on words
- computational complexity
- data and image compression
- descriptional complexity
digital libraries and document engineering
foundations of finite state technology
foundations of XML
fuzzy and rough languages
grammars (Chomsky hierarchy, contextual, unification, categorial, etc.)
grammatical inference and algorithmic learning
graphs and graph transformation
language varieties and semigroups
language-based cryptography
parallel and regulated rewriting
parsing
patterns
power series
string and combinatorial issues in bioinformatics
string processing algorithms
symbolic dynamics
term rewriting
transducers
trees, tree languages and tree automata
unconventional models of computation
weighted automata

STRUCTURE:

LATA 2015 will consist of:

invited talks
peer-reviewed contributions

INVITED SPEAKERS:

Paola Inverardi (L'Aquila), Synthesis of Protocol Adapters
Johann A. Makowsky (Technion, Haifa), Hankel Matrices for Graph Parameters and Graph Grammars
Giancarlo Mauri (Milano Bicocca), Complexity Classes for Membrane Systems
Andreas Podelski (Freiburg), Automated Program Verification
Antonio Restivo (Palermo), The Shuffle Product: New Research Directions

PROGRAMME COMMITTEE:

Andrew Adamatzky (West of England, Bristol, UK)
Andris Ambainis (Latvia, Riga, LV)
Franz Baader (Dresden Tech, DE)
Rajesh Bhatt (Massachusetts, Amherst, US)
José-Manuel Colom (Zaragoza, ES)
Bruno Courcelle (Bordeaux, FR)
Erzsébet Csuhaj-Varjú (Eötvös Loránd, Budapest, HU)
Aldo de Luca (Naples Federico II, IT)
Susanna Donatelli (Turin, IT)
Paola Flocchini (Ottawa, CA)
Enrico Formenti (Nice, FR)
Tero Harju (Turku, FI)
Monika Heiner (Brandenburg Tech, Cottbus, DE)
Yiguang Hong (Chinese Academy, Beijing, CN)
Authors are invited to submit non-anonymized papers in English presenting original and unpublished research. Papers should not exceed 12 single-spaced pages (including eventual appendices, references, etc.) and should be prepared according to the standard
format for Springer Verlag’s LNCS series (see http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0).

Submissions have to be uploaded to:

https://www.easychair.org/conferences/?conf=lata2015

PUBLICATIONS:

A volume of proceedings published by Springer in the LNCS series will be available by the time of the conference.

A special issue of the Journal of Computer and System Sciences (Elsevier, 2013 JCR impact factor: 1.0) will be later published containing peer-reviewed substantially extended versions of some of the papers contributed to the conference. Submissions to it will be by invitation.

REGISTRATION:

The period for registration is open from July 21, 2014 to March 2, 2015. The registration form can be found at:


DEADLINES:


QUESTIONS AND FURTHER INFORMATION:

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