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\*\*\*\*\* SUBMISSION DEADLINE EXTENDED: October 21 \*\*\*\*\*  
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**8th INTERNATIONAL CONFERENCE ON LANGUAGE AND AUTOMATA THEORY  
AND APPLICATIONS**

**LATA 2014**

**Madrid, Spain**

**March 10-14, 2014**

Organized by:

Research Group on Implementation of Language-Driven Software and Applications  
(ILSA)  
Complutense University of Madrid

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

<http://grammars.grlmc.com/lata2014/>

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**AIMS:**

LATA is a yearly conference 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 2014 will reserve significant room for young scholars at the beginning of their career. It will aim at attracting contributions from both classical theory fields and application areas (bioinformatics, language technology, artificial intelligence, etc.).

**VENUE:**

LATA 2014 will take place in Madrid, the capital of Spain. The venue will be the School of Informatics of Complutense University.

**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, concurrency and Petri nets  
automatic structures  
cellular automata  
codes  
combinatorics on words  
compilers  
computability  
computational complexity  
data and image compression  
decidability issues on words and languages  
descriptive complexity  
DNA and other models of bio-inspired computing  
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  
language-theoretic foundations of artificial intelligence and artificial life  
natural language and speech automatic processing  
parallel and regulated rewriting  
parsing  
patterns  
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  
weighted automata

#### **STRUCTURE:**

LATA 2014 will consist of:

invited talks  
invited tutorials  
peer-reviewed contributions

#### **INVITED SPEAKERS:**

Javier Esparza (Munich Tech, DE), On Trees and Fixed Point Equations (tutorial)  
Leslie A. Goldberg (Oxford, UK), The Complexity of Approximate Counting  
Oscar H. Ibarra (Santa Barbara, US), Some Computability and Complexity  
Problems Concerning FAs, PDAs, and Counter Machines

Sanjeev Khanna (Philadelphia, US), Matchings, Random Walks, and Sampling  
Helmut Seidl (Munich Tech, DE), Interprocedural Information Flow Analysis of XML  
Processors

**PROGRAMME COMMITTEE:**

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**ORGANIZING COMMITTEE:**

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Carlos Martín-Vide (Tarragona, co-chair)  
Antonio Sarasa (Madrid)  
José-Luis Sierra (Madrid, co-chair)  
Bianca Truthe (Magdeburg)  
Florentina Lilica Voicu (Tarragona)

#### **SUBMISSIONS:**

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) and should be formatted 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=lata2014>

#### **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 a major journal will be later published containing peer-reviewed 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 15, 2013 to March 10, 2014. The registration form can be found at:

<http://grammars.grlmc.com/lata2014/Registration.php>

#### **DEADLINES:**

Paper submission: October 21, 2013 (23:59 CET) – EXTENDED –  
Notification of paper acceptance or rejection: November 25, 2013  
Final version of the paper for the LNCS proceedings: December 2, 2013  
Early registration: December 9, 2013  
Late registration: February 24, 2014  
Starting of the conference: March 10, 2014  
End of the conference: March 14, 2014  
Submission to the post-conference journal special issue: June 14, 2014

#### **QUESTIONS AND FURTHER INFORMATION:**

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#### **POSTAL ADDRESS:**

LATA 2014

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