
Final Call for Papers

**6th INTERNATIONAL CONFERENCE ON LANGUAGE AND AUTOMATA
THEORY AND APPLICATIONS**

LATA 2012

A Coruña, Spain

March 5 - 9, 2012

<http://grammars.grlmc.com/LATA2012/>

AIMS:

LATA is a yearly conference in theoretical computer science and its applications. Following the tradition of the International Schools in Formal Languages and Applications developed at Rovira i Virgili University in Tarragona since 2002, LATA 2012 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, systems biology, language technology, artificial intelligence, etc.).

VENUE:

LATA 2012 will take place in A Coruña, at the northwest of Spain. The venue will be the Faculty of Computer Science, University of A Coruña.

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
- combinatorics on words
- computability
- computational complexity
- computational linguistics
- data and image compression
- decidability questions on words and languages
- descriptive 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
- weighted automata

STRUCTURE:

LATA 2012 will consist of:

- 3 invited talks
- 2 invited tutorials
- peer-reviewed contributions

INVITED SPEAKERS:

Eugene Asarin (Paris 7), Measuring Information in Timed Languages
 Bernard Boigelot (Liège), Automata-based Symbolic Representation of Polyhedra
 Gilles Dowek (INRIA), tutorial, Around the Physical Church Thesis: Cellular Automata, Graphs, Formal Languages and Quantum Theory
 Rodney Downey (Wellington), tutorial, 20 Years of Parameterized Complexity
 Jack Lutz (Iowa State), to be announced

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SUBMISSIONS:

Authors are invited to submit papers 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/lncs+authors?SGWID=0-40209-0-0-0>). Submissions have to be uploaded at:

<http://www.easychair.org/conferences/?conf=lata2012>

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 will be open since July 16, 2011 until March 5, 2012. The registration form can be found at the website of the conference: <http://grammars.grlmc.com/LATA2012/>

Early registration fees: 500 Euro

Early registration fees (PhD students): 400 Euro

Late registration fees: 540 Euro

Late registration fees (PhD students): 440 Euro

On-site registration fees: 580 Euro

On-site registration fees (PhD students): 480 Euro

At least one author per paper should register. Papers that do not have a registered author who paid the fees by December 5, 2011 will be excluded from the proceedings.

Fees comprise access to all sessions, one copy of the proceedings volume, coffee breaks and lunches. PhD students will need to prove their status on site.

PAYMENT:

Early (resp. late) registration fees must be paid by bank transfer before December 5, 2011 (resp. February 24, 2012) to the conference series account at Uno-e Bank (Julián Camarillo 4 C, 28037 Madrid, Spain):

IBAN: ES3902270001820201823142 – Swift/BIC code: UNOEE SM1 (account holder: Carlos Martín-Vide – LATA 2012; account holder's address: Av. Catalunya, 35, 43002 Tarragona, Spain).

Please write the participant's name in the subject of the bank form. Transfers should not involve any expense for the conference. People claiming early registration will be requested to prove that they gave the bank transfer order by the deadline.

On-site registration fees can be paid only in cash. A receipt for payments will be provided on site.

Besides paying the registration fees, it is required to fill in the registration form at the website of the conference.

IMPORTANT DATES:

Paper submission: October 7, 2011 (23:59h, CET)

Notification of paper acceptance or rejection: November 18, 2011

Final version of the paper for the LNCS proceedings: November 27, 2011

Early registration: December 5, 2011

Late registration: February 24, 2012

Starting of the conference: March 5, 2012

Submission to the post-conference special issue: June 9, 2012

FURTHER INFORMATION:

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POSTAL ADDRESS:

LATA 2012

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