RTA 2015 - CALL FOR PAPERS

26th International Conference on
REWITING TECHNIQUES AND APPLICATIONS
29 June - 1 July, 2015, Warsaw, Poland
colocated with TLCA, as part of RDP 2015
http://rdp15.mimuw.edu.pl/

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Topics
RTA is the major forum for the presentation of research on all aspects of rewriting. Topics of interest include:

Foundations: string, term, net and graph rewriting; higher-order rewriting; binding techniques; constrained rewriting and deduction; categorical and infinitary rewriting; stochastic rewriting; higher-dimensional rewriting; tree automata; confluence; termination; complexity; modularity; equational logic; universal algebra; rewriting logic; rewriting calculi.

Algorithmic aspects and implementation: strategies; matching; unification; anti-unification; narrowing; completion; parallel execution; certification of rewriting properties; abstract machines; automated (non)termination and confluence provers; automated complexity analysis; system descriptions.

Applications of rewriting: programming languages (functional, logic, object-oriented and other programming paradigms); type systems; program analysis, transformation and optimisation; rewriting models of programs; semantics; process calculi; functional calculi; explicit substitution; constraint solving; symbolic and algebraic computation; theorem proving; proof checking; system modelling; system synthesis and verification; XML queries and transformations; cryptographic protocols; security policies; system biology; linguistics; rewriting in education.

Important Dates
rebuttal period: Mar. 19–21, 2015

Submission and publication
The RTA 2015 proceedings will be published by LIPIcs (Leibniz International Proceedings in Informatics). Papers should present original work, and should be submitted via Easychair:
https://www.easychair.org/conferences/?conf=rta2015
They should be at most 15 pages (10 for system descriptions) in the style described in:
http://drops.dagstuhl.de/styles/lipics/lipics-authors.tgz

This year we particularly welcome submissions on applications of rewriting. Application papers are regular papers (15 pages); their originality is judged based on the novelty of the application or the depth of the rewriting methods applied.

System description papers present new software tools in which rewriting plays an important role, or significantly new versions of such tools. The paper should also include an evaluation of the tool.

One author of each accepted paper is expected to present it at the conference.

Colocated Events
RTA 2015 is organised as part of the Federated Conference on Rewriting, Deduction and Programming (RDP 2015), together with the International Conference on Typed Lambda Calculi and Applications and several related events. Details about workshops affiliated with RDP will be available soon.