

## FINAL CALL FOR PAPERS

9th International Symposium

# Frontiers of Combining Systems – FroCoS 2013

September 18 – 20, 2013, Nancy, France

<http://frocOS2013.loria.fr/>

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### Important dates (all in 2013):

Abstract submission: **Apr 15**  
Full paper submission: **Apr 22**  
Notification: Jun 6  
Final version: Jul 4

The 9th International Symposium on Frontiers of Combining Systems will be held in Nancy, France, from 18-20 September 2013. The aim of the conference is to publish and promote progress in research areas requiring the development of general techniques and methods for the combination and integration of special, formally defined systems, as well as for the analysis and modularization of complex systems.

FroCoS 2013 will be co-located with the 22nd International Conference on Automated Reasoning with Analytic Tableaux and Related Methods (TABLEAUX 2013) held 16-19 September 2013.

**Scope of conference:** In various areas of computer science, such as logic, computation, program development and verification, artificial intelligence, knowledge representation, and automated reasoning, there is an obvious need for using specialized formalisms and inference mechanisms for special tasks. To be usable in practice, these specialized systems must be combined with each other, and must be integrated into general purpose systems. This has led in many research areas to the development of general techniques and methods for the combination and integration of special, formally defined systems, as well as for the analysis and modularization of complex systems.

The International Symposium on Frontiers of Combining Systems (FroCoS) traditionally focusses on these types of research questions and activities. Like its predecessors, FroCoS 2013 seeks to offer a common forum for research in the general area of combination, modularization and integration of systems, with emphasis on logic-based ones, and of their practical use.

Typical topics of interest include (but are not limited to):

- combinations of logics such as combined higher-order, first-order, temporal, modal, description or other non-classical logics;
- combinations and modularity in ontologies;
- combination of decision procedures, of satisfiability procedures, of constraint solving techniques or of logical frameworks;
- combination and integration methods in SAT and SMT solving;
- combinations and modularity in term rewriting;
- integration of equational and other theories into deductive systems;
- combination of deduction systems and computer algebra;
- integration of data structures into constraint logic programming and deduction;
- hybrid methods for deduction, resolution and constraint propagation;
- hybrid systems in knowledge representation and natural language semantics;
- combined logics for distributed and multi-agent systems;
- logical aspects of combining and modularizing programs and specifications.

**Invited Speakers:** Stéphane Demri (joint talk with TABLEAUX 2013), Konstantin Korovin, Joel Ouaknine, Lawrence C. Paulson.

**Publication details:** The proceedings of the conference will be published in the Springer LNAI/LNCS series.

**Paper submissions:** The program committee seeks high-quality submissions describing original work, written and to be presented in English, not substantially overlapping with published or simultaneously submitted work to a journal or conference with archival proceedings. Excluded from this restriction are papers previously presented at workshops without formal proceedings or papers submitted to workshops without formal proceedings. Papers that have been submitted to other workshops should be marked as such. Selection criteria include accuracy and originality of ideas, clarity and significance of results, and quality of presentation. The page limit in Springer LNCS style is 16 pages. Papers must be edited in LaTeX using the llncs style and must be submitted electronically as PDF files via the EasyChair system: <https://www.easyChair.org/conferences/?conf=frocOS2013>