



FLINS 2016

12th Conference on
Uncertainty Modelling in
Knowledge Engineering
and Decision Making

August 24-26, 2016
ENSAIT, Roubaix, France

Call for Papers

Special Session on Logic and Automated Reasoning with Applications (LARA)

Automated reasoning provides the fundamental mechanism of many fields such as computer sciences, information sciences, cybernetics, and artificial intelligence, etc., which helps produce computer programs to reason automatically with applications into theorem proving and system credibility verification etc. Logic serves as the foundations of reasoning mechanism, and it builds a bridge between theory and application. This special session aims at providing an opportunity for researchers working this research area to discuss in fundamental, approaches, methodologies, software systems, and applications, to share their novel ideas, original research results and practical experiences of logical, algebraic, and reasoning methods and techniques in its broadest sense.

The topics of interest include, but are not limited to:

- Multi-valued logic
- Fuzzy logic
- Possibility logic
- Spatial and temporal logics
- Non-monotonic logic
- Logic algebra
- Logic programming
- Logical-based approaches
- Automated reasoning
- Approximate reasoning
- Non-monotonic reasoning
- Logical specification and verification of systems
- Algebraic methods for syntax and semantics
- Applications of algebras, categories, domains, topological spaces and co-algebras to programming
- Applications of proof theory and model theory to programming

Important Dates

Full paper submission: **February 5, 2016**

Notification of review report: **March 15, 2016**

Final paper submissions: **April 15, 2016**

Authors registration: **May 24, 2016**

Paper Submission and Publication

Authors are invited to submit their manuscripts to the special session on Logic and Automated Reasoning with Applications (LARA).

Papers must be written in English and submitted electronically as a PDF/Word file to x.he@home.swjtu.edu.cn.

All papers submitted to this session will be peer-reviewed and selected based on their originality, significance, relevance, and clarity of presentation. Accepted papers will be published in the conference proceedings by World Scientific. Extended versions of selected papers will be published in special issues of some SCI-indexed international journals.

Special Session Organizers:

Dr. Shuwei Chen School of Mathematics, Southwest Jiaotong University, Chengdu, China, swchen@home.swjtu.edu.cn

Dr. Xingxing He School of Mathematics, Southwest Jiaotong University, Chengdu, China, x.he@home.swjtu.edu.cn

Note: The detail information may be subject to change, please find the latest information via <http://flins2016.ensait.fr/>