CALL FOR PAPERS
Second International Conference on
Formal Structures for Computation and Deduction (FSCD'17)
3 – 6 September 2017, Oxford, UK (co-located with ICFP 2017)
`http://www.cs.ox.ac.uk/conferences/fscd2017/`

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FSCD (`http://fscdconference.org/`) covers all aspects of formal structures for computation and deduction from theoretical foundations to applications. Building on two communities, RTA (Rewriting Techniques and Applications) and TLCA (Typed Lambda Calculi and Applications), FSCD embraces their core topics and broadens their scope to closely related areas in logics, proof theory and new emerging models of computation such as quantum computing or homotopy type theory. Suggested, but not exclusive, list of topics for submission are:

1. Calculi • Lambda calculus • Concurrent calculi • Logics • Rewriting systems • Proof theory • Type theory and logical frameworks

2. Methods in Computation and Deduction • Type systems • Induction and coinduction • Matching, unification, completion, and orderings • Strategies • Tree automata • Model checking • Proof search and theorem proving • Constraint solving and decision procedures

3. Semantics • Operational semantics • Abstract machines • Game Semantics • Domain theory and categorical models • Quantitative models

4. Algorithmic Analysis and Transformations of Formal Systems • Type Inference and type checking • Abstract Interpretation • Complexity analysis and implicit computational complexity • Checking termination, confluence, derivational complexity and related properties • Symbolic computation

5. Tools and Applications • Programming and proof environments • Verification tools • Libraries for proof assistants and interactive theorem provers • Case studies in proof assistants and interactive theorem provers • Certification

PUBLICATION The proceedings will be published as an electronic volume in the Leibniz International Proceedings in Informatics (LIPIcs) of Schloss Dagstuhl. All LIPIcs proceedings are open access.

SUBMISSION GUIDELINES Submissions can be made in two categories. Regular research papers are limited to 15 pages and must present original research which is unpublished and not submitted elsewhere. System descriptions are limited to 10 pages and must describe a working system which has not been published or submitted elsewhere. Submissions must be formatted using the LIPIcs style files and submitted via EasyChair. Complete instructions on submitting a paper can be found on the conference web site.

IMPORTANT DATES All deadlines are midnight anywhere-on-earth (AoE) and are firm; late submissions will not be considered.

Abstract Deadline:	7 April 2017	**Notification:**	14 June 2017
Submission Deadline:	14 April 2017	**Camera-Ready:**	7 July 2017
Rebuttal:	29–31 May 2017		

SPECIAL ISSUES Full versions of several accepted papers, to be selected by the program committee, will be invited for submission to a special issue of Logical Methods in Computer Science.

BEST PAPER AWARD BY JUNIOR RESEARCHERS The program committee will consider declaring this award to a paper in which all authors are junior researchers: a junior researcher is a person who is either a student or whose PhD award date is less than three years from the first day of the meeting.

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