CALL FOR PAPERS
Seventh International Conference on
Formal Structures for Computation and Deduction (FSCD 2022)
August 2-5, 2022, Haifa, Israel
https://fscd-conference.org/
In-cooperation with ACM SIGLOG and SIGPLAN
FSCD 2022 will take place as part of FLoC 2022 (Federated Logic Conference).

PROGRAM COMMITTEE CHAIR
Amy Felty  Univ. of Ottawa
fscd2022@easychair.org

PROGRAM COMMITTEE
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SUBMISSION GUIDELINES
Submissions must be formatted using the LIPIcs style files and submitted via EasyChair: https://easychair.org/conferences/?conf=fscd2022
Submissions can be made in two categories. Regular research papers are limited to 15 pages, excluding references and appendices. They must present original research which is unpublished and not submitted elsewhere. System descriptions are limited to 15 pages, excluding references. They must present new software tools, or significantly new versions of such tools, in which FSCD topics play an important role. An archive of the code with instructions on how to install and run the tool must be submitted. In addition, a webpage where the system can be experimented with should be provided. Additional instructions on submitting a paper can be found on the conference web site One author of an accepted paper is expected to present it at the (physical) conference, unless Covid restrictions prevent travel.

IMPORTANT DATES
Submission: February 11, 2022 Notification: April 15, 2022 Main Conference: August 2–5, 2022

BEST PAPER AWARD BY JUNIOR RESEARCHERS
The program committee will select a paper in which at least one author is a junior researcher, i.e., either a student or whose PhD award date is less than three years from the first day of the meeting. Other authors should declare to the PC Chair that at least 50% of contribution is made by the junior researcher(s).

PUBLICATION
The proceedings will be published as an electronic volume in the [Leibniz International Proceedings in Informatics (LIPIcs)](https://drops.dagstuhl.de) of Schloss Dagstuhl. All LIPIcs proceedings are open access.

SPECIAL ISSUE
A special issue of Logical Methods in Computer Science is planned.

FSCD (https://fscd-conference.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, models of computation, semantics and verification in new challenging areas.

The suggested, but not exclusive, list of topics for submission is:

1. Calculi: Rewriting systems (string, term, higher-order, graph, conditional, modulo, infinitary, etc.); Lambda calculus; Logics (first-order, higher-order, equational, modal, linear, classical, constructive, etc.); Proof theory (natural deduction, sequent calculus, proof nets, etc.); Type theory and logical frameworks; Homotopy type theory; Quantum calculi.

2. Methods in Computation and Deduction: Type systems (polymorphism, dependent, recursive, intersection, session, etc.); Induction, coinduction; Matching, unification, completion, orderings; Strategies (normalization, completeness, etc.); Tree automata; Model building and model checking; Proof search and theorem proving; Constraint solving and decision procedures.

3. Semantics: Operational semantics and abstract machines; Game Semantics and applications; Domain theory and categorical models; Quantitative models (timing, probabilities, etc.); Quantum computation and emerging models in computation.

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; Proof assistants and interactive theorem provers; Applications in industry; Applications of formal systems in other sciences.

6. Semantics and Verification in new challenging areas: Certification; Security; Blockchain protocols; Data Bases; Deep learning and machine learning algorithms; Planning.

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IMPORTANT DATES
All deadlines are midnight anywhere-on-earth (AoE); late submissions will not be considered.
Abstract: February 8, 2022 Rebuttal: March 29–April 1, 2022 Final version: April 30, 2022

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