

SOFSEM 2023

48th International Conference on Current Trends in Theory and Practice of Computer Science

15 – 19 January 2023
Nový Smokovec, Slovakia

<https://ics.science.upjs.sk/sofsem2023/>

CALL FOR PAPERS

ABOUT SOFSEM

SOFSEM is the annual winter conference devoted to the theory and practice of computer science. The conference traditionally focuses on the recent results and developments in fundamental research inspired by the challenges in computer science and related fields to design the innovative software systems of our time. SOFSEM has a long history of facilitating the scientific interchange among researchers in all stages of their career. The series of SOFSEM conferences was interrupted in 2022 due to the pandemic. In 2023 SOFSEM will be held again, in scenic Nový Smokovec in the Tatra Mountains (Slovakia).

SCOPE AND TOPICS

The program committee is soliciting original and significant research contributions to all recognized areas of foundational computer science and their interface with applied domains including artificial intelligence and data science, such as the design and analysis of algorithms and data structures, automata and languages, computational complexity theory, cryptography and security, data and pattern mining, distributed and parallel computing, formal models and methods, graphs and network analysis, intelligent systems, machine learning, multi-agent systems, planning and routing, quantum computing, and all other forms of science-inspired computing. Original contributions addressing fundamental research issues and emerging topics in other areas of (applied) computing are also welcome.

IMPORTANT DATES

Paper submission: August 8, 2022 (**EXTENDED**)
Notification to authors: September 30, 2022
Camera-ready submission: October 14, 2022
Symposium: January 15-19, 2022

SUBMISSION

Authors are invited to submit high-quality manuscripts reporting original unpublished research in the topics related to the symposium. Simultaneous submission to other conferences or workshops with published proceedings is not allowed. It is required that each accepted paper be presented at the conference by one of its authors. Submissions must be in the form of a single pdf file prepared using the LNCS latex templates and style files. Springer's proceedings LaTeX templates are also available on Overleaf. Springer's authors' guidelines may be consulted here. Submissions must be in the form of a single pdf file prepared using the LNCS latex templates and style files. Springer's proceedings LaTeX templates are also available on Overleaf. Springer's authors' guidelines may be consulted here. Each submission should consist of the main part of the paper, not exceeding 12 pages (including the title page and excluding the references), plus an optional clearly marked appendix (to be read at the discretion of the program committee). Any figure pertaining to the main part of the paper should be included therein (within the 12 page limit). The first page must include an indication of whether the paper is eligible for the best student paper award. Papers are to be submitted electronically through EasyChair at the following link:

<https://easychair.org/conferences/?conf=sofsem2023>

INVITED SPEAKERS (incomplete list)

- Slawomir Lasota, Uniwersytet Warszawski, Poland
 - Gerth Brodal, Aarhus University, Denmark
 - Věra Kůrková, Czech Academy of Sciences, Czech Republic
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PROCEEDINGS

Conference proceedings will be published in the ARCoSS subline of the Springer "Lecture Notes in Computer Science" series.

SPECIAL ISSUE

Selected papers will be invited to the special issue of Springer Journal of Computer and System Sciences (JCSS) devoted to SOFSEM 2023.

BEST PAPER AWARD

The award will be given to the best paper submitted to SOFSEM 2023.

BEST STUDENT PAPER AWARD

The award will be given to the best student paper submitted to SOFSEM 2023.

PROGRAM COMMITTEE

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