



SEIS - Software Engineering in Society

ICSE 2022

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Call for Papers

Goals

We are looking for insightful and thought-provoking papers that address the various roles of software engineering in society. Our theme this year is diversity, inclusion, belonging, and representation. We seek contributions that align with this theme that highlight how software engineering can address the opportunities and challenges posed by the rapidly accelerating pace of technological advances that are impacting the economic, political, environmental, social, and technical aspects of society.

We would also like to discuss emerging trends in the development of software that is part of larger systems and whose development is tackled within the specific disciplines listed below. The goal is to investigate the reasons for these trends, to analyze possible novel contributions from the Software Engineering community, and to identify novel research challenges that these disciplines pose to software engineering methods and practices.

SEIS Welcomes

- Innovative, inspiring research with a clear impact on software engineering challenges, directions, methods, and tools,
- Engagement with a broad spectrum of disciplines including, but not limited to:
 - Diversity and Inclusion (e.g. Intersectional Issues related to gender, race, ethnicity, disability, socioeconomic background, sexual orientation, etc., Fostering Inclusion, Allyship, Covering, Privilege, Organizational Culture);
 - Designing, Engineering, and Testing Software for Diverse Users;
 - Health (e.g., Health Informatics, software technologies for aging);
 - Physical Sciences (e.g., Computational Chemistry, Genomic, Biotechnologies)
 - Environmental Sciences (e.g., Sustainability, Urban Planning, Ecology, Climate Change);
 - Social Sciences (e.g., Organizational Psychology, Software Fairness, Regulatory Compliance);
 - Ethics (e.g., Responsible AI, Whistleblowing, Free Speech, Gatekeepers, Politics);
 - Misinformation (e.g. Recognition, Impeding its Spread, Censorship);
 - Management (e.g. socio-technical ecosystems, technical debt, social debt);
 - Economics (e.g., Electronic payments, Blockchain technologies);
 - Computing and Engineering (e.g., HCI, AI, Data Science, Distributed Computing);
 - Security and Privacy (e.g., security and privacy preserving software development);

- Legal (e.g., combating and investigating crime, impact on the legal system);
- Manufacturing (e.g., Industry 4.0, smart factory);
- Engineering emerging cyber-physical systems (e.g., autonomous vehicles, smart cities);
- The Arts (e.g. Digital Art, Performing Arts) and Crafts (e.g. DIY electronics);
- Design (e.g., Value-sensitive Design, history of cultural change, future of cultural changes)
- The impact of COVID-19 on underrepresented groups
- Interdisciplinary research (e.g. Cognitive Science, Digital Social Innovation);
- Work emerging from research partnerships with communities, NGOs, cultural institutions, and the public and private sector;
- Research reflections on the long-term implications of digital technology interventions on all aspects in society (e.g., economics, social, political, environmental, technical);
- Opinion pieces on why diversity and inclusion are important for software engineering;
- Research directions towards new development models, tools, and methods for specific application environments;
- Research findings supported by empirical studies and experimentation.

Scope

We are interested in technical research approaches that have been applied to address or to support solutions to societal problems. We especially welcome papers that align with our theme of diversity, inclusion, belonging, and representation. Equally, we are interested in sharing case studies, success stories, failures and lessons learned from working in highly complex problem spaces such as climate change, public health, cybersecurity and democracy. We are interested in software engineering tools, processes, architectures, and methods that are relevant in these settings. SEIS authors are encouraged to contribute soundly motivated research, both mature and novel. SEIS welcomes multi- and inter-disciplinary research showcasing how software engineering can contribute to the many dimensions of software embedded in and influencing society.

Requirements

In line with this year's track theme, we encourage all submissions to discuss the broader impacts of their work. What impact will this work have, or has already had, on the world and on diversity, inclusion, belonging, and representation? How does the work engage with underrepresented groups to bring new perspectives on research? These impacts should be directly related to the research focus of the paper.

This year, all submissions must include an additional section, a Lay Abstract: a 250-word summary of the paper written in plain English, intended to be read not by researchers, but by members of the public, who may have very little understanding of software engineering, software engineering research, or academic jargon. This will help make our work more accessible to the public, an important constituency and focus of our research. The Lay Abstract should come after the Abstract but before the paper's Introduction section.

Evaluation

The primary criteria for acceptance of a paper submitted to SEIS are the scientific quality of the paper and the extent to which a paper meets the SEIS track goals and fits the scope. The SEIS program committee will undertake the assessment with regard to the following criteria: relevance to the Software Engineering community, impact to society, soundness of the technical contribution, originality of the paper, appropriate consideration of relevant literature, acknowledgment of broader impacts, and clarity of presentation. Each submission will be reviewed by at least three members of the program committee.

By submitting to this track, authors acknowledge that they are aware of and agree to be bound by the ACM Policy and Procedures on Plagiarism (<https://www.acm.org/publications/policies/plagiarism>) and the IEEE Plagiarism FAQ (<https://www.acm.org/publications/policies/plagiarism>))

(<https://www.ieee.org/publications/rights/plagiarism/plagiarism-faq.html>)). In particular, papers submitted to ICSE 2022 SEIS must not have been published elsewhere and must not be under review or submitted for review elsewhere whilst under consideration for ICSE 2022. Contravention of this concurrent submission policy will be deemed a serious breach of scientific ethics, and appropriate action will be taken in all such cases. To check for double submission and plagiarism issues, the chairs reserve the right to (1) share the list of submissions with the PC Chairs of other conferences with overlapping review periods and (2) use external plagiarism detection software, under contract to the ACM or IEEE, to detect violations of these policies.

By submitting to this track, authors acknowledge that they conform to the authorship policy of the ACM (<https://www.acm.org/publications/policy-on-authorship>), and the authorship policy of the IEEE (<https://journals.ieeeauthorcenter.ieee.org/become-an-ieee-journal-author/publishing-ethics/definition-of-authorship/> (<https://journals.ieeeauthorcenter.ieee.org/become-an-ieee-journal-author/publishing-ethics/definition-of-authorship/>)).

Submissions not accepted for publication in the SEIS Track may be invited to submit a 2 page abstract to the ICSE Poster Track for additional review.

Format

- Full paper, up to 10 pages documenting results and findings, where the research presented has followed established research methods;
- Short paper, up to 4 pages, reporting novel approaches that have not been fully evaluated, which will be presented as a poster;
- Experience paper, up to 10 pages, reporting on real-world problems and innovative solutions, or tools;
- Opinion paper, up to 4 pages, reporting on well-founded arguments to support diversity and inclusion.

For all papers, references may extend as many pages beyond the page limit as you need.

How to Submit

Formatting instructions are available at <https://www.acm.org/publications/proceedings-template> (<https://www.acm.org/publications/proceedings-template>) for both LaTeX and Word users. LaTeX users must use the provided `acmart.cls` and `ACM-Reference-Format.bst` without modification, enable the conference format in the preamble of the document (i.e., `\documentclass[sigconf,review]{acmart}`), and use the ACM reference format for the bibliography (i.e., `\bibliographystyle{ACM-Reference-Format}`). The review option adds line numbers, thereby allowing referees to refer to specific lines in their comments.

Note, we use double-blind review. Be sure to remove the list of authors from the submitted paper. If citing your own prior work, please do so in the third person to obscure the relationship you have with it. For advice, guidance, and explanation about the double-blind review process, see ICSE 2020's Q&A page:

<https://conf.researchr.org/track/icse-2020/icse-2020-papers?#Submitting-to-ICSE-Q-A>
(<https://conf.researchr.org/track/icse-2020/icse-2020-papers?#Submitting-to-ICSE-Q-A>).

All papers must be written in English.

All papers should be made accessible to people with disabilities. See some guidelines from the folks at SIGACCESS here: https://assets21.sigaccess.org/creating_accessible_pdfs.html (https://assets21.sigaccess.org/creating_accessible_pdfs.html).

Please submit your paper with HotCRP: <https://icse2022-seis.hotcrp.com/> (<https://icse2022-seis.hotcrp.com/>)

Conference Attendance Expectation

If a submission is accepted, at least one author of the paper is required to register for and attend the full 3-day technical conference and present the paper. The presentation is expected to be delivered in person, unless this is impossible due to travel limitations (related to, e.g., health, visa, or COVID-19 prevention).

Important Dates






- SEIS Submissions Deadline: 22 October 2021
- SEIS Acceptance Notification: 14 January 2022
- SEIS Camera Ready: 11 February 2022

Organization and Contact

If there are queries regarding the CFP, please contact the SEIS Co-Chairs:

- Andrew Begel, Microsoft Research (andrew.begel@microsoft.com (mailto:andrew.begel@microsoft.com))
- Kelly Blincoe, University of Auckland (k.blincoe@auckland.ac.nz (mailto:k.blincoe@auckland.ac.nz))

Important Dates	🌐🕒 AoE (UTC-12h)
Fri 11 Feb 2022 Camera Ready Deadline	
Fri 14 Jan 2022 Acceptance Notification	
Fri 22 Oct 2021 Submission Deadline	

SEIS (https://conf.researchr.org/committee/icse-2022/icse-2022-seis---software-engineering-in-society)	
 Andrew Begel Microsoft Research United States https://conf.researchr.org/profile/icse-2022/andrewbegel1	SEIS Co-Chair
 Kelly Blincoe University of Auckland New Zealand https://conf.researchr.org/profile/icse-2022/kellyblincoe	SEIS Co-Chair
 Sue Black Durham University United Kingdom https://conf.researchr.org/profile/icse-2022/sueblack	
 Xuan Bach D. Le The University of Melbourne Australia https://conf.researchr.org/profile/icse-2022/xuanbachdle	
 Edna Dias Canedo University of Brasilia (UnB) Brazil https://conf.researchr.org/profile/icse-2022/ednadiascanedo	
Torgeir Dingsøy	



Norwegian University of Science and Technology

Norway

(<https://conf.researchr.org/profile/icse-2022/torgeirdingsoyr>)



Alpana Dubey

Accenture Labs, India

(<https://conf.researchr.org/profile/icse-2022/alpanadubey>)



Fabian Fagerholm

Aalto University

Finland

(<https://conf.researchr.org/profile/icse-2022/fabianfagerholm>)



Matt Germonprez

University of Nebraska, USA

(<https://conf.researchr.org/profile/icse-2022/mattgermonprez>)



Smita Ghaisas

TCS Research

India

(<https://conf.researchr.org/profile/icse-2022/smitaghaisas>)



Daniel Graziotin

University of Stuttgart

(<https://conf.researchr.org/profile/icse-2022/danielgraziotin>)



Orit Hazzan

Technion—Israel Institute of Technology

Israel

(<https://conf.researchr.org/profile/icse-2022/orithazzan2>)



Waqar Hussain

Monash University

Australia

(<https://conf.researchr.org/profile/icse-2022/waqarhussain>)



Brittany Johnson

George Mason University

United States

(<https://conf.researchr.org/profile/icse-2022/brittanyjohnson>)



Ritu Kapur

University of Sannio

Italy

(<https://conf.researchr.org/profile/icse-2022/ritukapur>)

Rick Kazman



University of Hawai'i at Mānoa

(<https://conf.researchr.org/profile/icse-2022/rickkazman>)



Jil Klünder

Leibniz Universität Hannover

Germany

(<https://conf.researchr.org/profile/icse-2022/jilklunder>)



Sandeep Kuttal

The University of Tulsa

United States

(<https://conf.researchr.org/profile/icse-2022/sandeepkuttal>)



Maleknaz Nayebi

York University

Canada

(<https://conf.researchr.org/profile/icse-2022/maleknaznayebi1>)



Oscar Pastor

Universitat Politecnica de Valencia

Spain

(<https://conf.researchr.org/profile/icse-2022/oscarpastor>)



David Redmiles

University of California, Irvine

United States

(<https://conf.researchr.org/profile/icse-2022/davidredmiles>)



Ita Richardson

Lero - The Irish Software Research Centre and University of Limerick

Ireland

(<https://conf.researchr.org/profile/icse-2022/itarichardson>)



Silvia Rueda Pascual

Universidad de Valencia

Spain

(<https://conf.researchr.org/profile/icse-2022/silviaruedapascual>)



Norsaremah Salleh

International Islamic University Malaysia

Malaysia

(<https://conf.researchr.org/profile/icse-2022/norsaremasalleh>)



Bastin Tony Roy Savarimuthu

University of Otago, Dunedin, New Zealand

New Zealand

(<https://conf.researchr.org/profile/icse-2022/bastintonyroysavarimuthu>)

Carolyn Seaman

**University of Maryland Baltimore County**

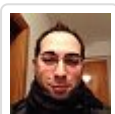
United States

<https://conf.researchr.org/profile/icse-2022/carolynseaman>**Jonathan Sillito****Brigham Young University**

United States

<https://conf.researchr.org/profile/icse-2022/jonathansillito>**Mary Sánchez-Gordón****Østfold University College**

Norway

<https://conf.researchr.org/profile/icse-2022/marysanchezgordon>**Damian Andrew Tamburri****TU/e**

Netherlands

<https://conf.researchr.org/profile/icse-2022/damianandrewtamburri>**Bogdan Vasilescu****Carnegie Mellon University, USA**

United States

<https://conf.researchr.org/profile/icse-2022/bogdanvasilescu>**Charles Wallace****Michigan Technological University, USA**

United States

<https://conf.researchr.org/profile/icse-2022/charleswallace>**Didar Zowghi****University of Technology Sydney (UTS)**

Australia

<https://conf.researchr.org/profile/icse-2022/didarzowghi>