Research Papers

ESEC/FSE 2020

Call for Papers

We invite high-quality submissions describing original and unpublished results of theoretical, empirical, conceptual, and experimental software engineering research. Contributions should describe innovative and significant original research. Papers describing groundbreaking approaches to emerging problems will also be considered. Submissions that facilitate reproducibility by using available datasets or making the described tools and datasets publicly available are especially encouraged. We are interested in submissions from both industry and academia on all topics related to software engineering. For a list of topics, please see the end of this call. Papers submitted to ESEC/FSE for consideration should not have been already published elsewhere and should not be under review or submitted for review elsewhere during the reviewing period. Specifically, authors are required to adhere to the ACM Policy and Procedures on Plagiarism and the ACM Policy on Prior Publication and Simultaneous Submissions.

How to Submit

At the time of submission all papers must conform to the ESEC/FSE 2020 Format and Submission Guidelines, and must not exceed 10 pages for all text and figures plus 2 pages for references. All submissions must be in English and in PDF format. You can submit, optionally, an additional file containing supplementary material (see details below). Submissions that do not comply with the above instructions will be desk rejected without review. Papers must be submitted electronically through the ESEC/FSE submission site:

https://esecfse2020.hotcrp.com

Each submission will be reviewed by at least three members of the program committee. Authors will have an opportunity to respond to reviews during a rebuttal period. Submissions will be evaluated on the basis of originality, importance of contribution, soundness, evaluation, quality of presentation and appropriate comparison to related work. The program committee as a whole will make final decisions about which submissions to accept for presentation at the conference. ESEC/FSE 2020 will employ a **double-blind review process**. The papers submitted must not reveal the authors' identities in any way:

- Authors should leave out author names and affiliations from the body of their submission.
- Authors should ensure that any citations to related work by themselves is written in third person, that is, "the prior work of XYZ" as opposed to "our prior work".
- Authors should not include URLs to author-revealing sites (tools, datasets).
- You are encouraged to submit a link to a Web site or repository containing supplementary material (raw data, datasets, experiments, etc.), as long as it is blinded. The visit of such sites should not be needed to conduct the review. The program committee will not necessarily consider it in the paper review process. For more information, please read How to disclose data for double-blind review and make it archived open data upon acceptance.
- Authors should anonymize author-revealing company names. Authors should provide general characteristics of the organizations involved needed to understand the context of the paper.

The paper anonymity will be maintained during the reviewers' discussion period and the authors' rebuttal period. Authors must therefore maintain the anonymity in their responses, during the rebuttal phase, and provide no additional information that would otherwise be author-revealing.

Authors having further questions on double blind reviewing are encouraged to contact the program chairs by email. Papers that do not comply to the double-blind review process will be desk-rejected.

To prevent double submissions, the chairs will compare the submissions with related conferences that have overlapping review periods. The double submission restriction applies only to refereed journals and conferences, not to unrefereed forums (e.g. arXiv.org). To check for plagiarism issues, the chairs will use external plagiarism detection software.

All publications are subject to the ACM Author Representations policy.

Important Dates

All dates are 23:59:59 AoE (UTC-12h).

- Full paper submission: 5 March 2020
- Rebuttal period (all papers): 27-30 April 2020
- Additional short response period (selected papers): 9-10 May 2020
- Notification: 21 May 2020
- Camera ready: September 10, 2020

Open Science Policy

The research track of ESEC/FSE has introduced an open science policy. Openness in science is key to fostering scientific progress via transparency, reproducibility, and replicability. The steering principle is that all research results should be accessible to the public, if possible, and that empirical studies should be reproducible. In particular, we actively support the adoption of open data and open source principles and encourage all contributing authors to disclose (anonymized and curated) data to increase reproducibility and replicability.

Upon submission to the research track, authors are asked to make their data available to the program committee (via upload of supplemental material or a link to a private or public repository) or to comment on why this is not possible or desirable. While sharing such a repository is not mandatory for submission or acceptance, this information will be passed to the program committee to inform its decision. Furthermore, authors are asked to indicate whether they intend to make their data publicly available upon acceptance. For more details on ESEC/FSE open science policy, please refer to the official guidelines.

Topics of Interest

Topics of interest include, but are not limited to:

1. Agile software development
2. AI and software engineering
3. Apps and app store analysis
4. Automated reasoning techniques
5. Autonomic and (self-)adaptive systems
6. Big data

Important Dates

AoE (UTC-12h)

Thu 10 Sep 2020
Camera ready

Thu 21 May 2020
Notification

Wed 6 - Sat 9 May 2020
Additional short response period (selected papers)

Mon 27 - Thu 30 Apr 2020
Rebuttal period (all papers)

Thu 5 Mar 2020
Submission deadline

Submission Link

https://esecfse2020.hotcrp.com

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Iowa State University
United States

Thomas Zimmermann — Co-chair
Microsoft Research
United States

Abhik Roychoudhury
National University of Singapore, Singapore

Alessandra Gorla
IMDEA Software Institute
Spain

Alessandra Russo
Imperial College London
United Kingdom

Alessandro Garcia
PUC-Rio
Brazil

Alexander Serebrenik
Eindhoven University of Technology
Netherlands

Andrea Zisman
The Open University

Andreas Metzger
University of Duisburg-Essen
Germany

Anita Sarma
Oregon State University, USA
United States

Antonino Sabetta
SAP Security Research
France

Ayushi Rastogi

7. Cloud computing
8. Component-based software engineering
9. Computer-supported cooperative work
10. Configuration management and deployment
11. Crowd sourced software engineering
12. Cyber physical systems
13. Data-driven software engineering
14. Debugging
15. Dependability, safety, and reliability
16. Distributed and collaborative software engineering
17. Domain modeling and meta-modeling
18. Education
19. Embedded software
20. Emerging domains of software
21. Empirical software engineering
22. End-user software engineering
23. Fault localization
24. Formal methods
25. Green and sustainable technologies
26. Human and social aspects of software engineering
27. Human-computer interaction
28. Knowledge acquisition and management
29. Machine learning for software engineering
30. Middleware, frameworks, and APIs
31. Mining software engineering repositories
32. Mobile applications
33. Model-driven engineering
34. Parallel, distributed, and concurrent systems
35. Performance
36. Program analysis
37. Program comprehension
38. Program repair
39. Program synthesis
40. Programming languages
41. Recommendation systems
42. Refactoring
43. Requirements engineering
44. Reverse engineering
45. Safety-critical systems
46. Scientific computing
47. Search-based software engineering
48. Security, privacy and trust
49. Software architecture
50. Software economics and metrics
51. Software engineering for machine learning
52. Software evolution and maintenance
53. Software modeling and design
54. Software process
55. Software product lines
56. Software reuse
57. Software services
58. Software testing
59. Software visualization
60. Specification and modeling languages
61. Tools and environments
62. Traceability
63. Ubiquitous and pervasive software systems
64. Validation and verification

Baishakhi Ray
Columbia University, USA
United States

Barbora Buhnova † 2024
Masaryk University
Czechia

Bonita Sharif
University of Nebraska-Lincoln, USA
United States

Bram Adams
MCIS, Polytechnique Montréal
Canada

Brittany Johnson
George Mason University
United States

Kla Tantithamthavorn
Monash University, Australia
Australia

Chengnian Sun
University of Waterloo
Canada

Christoph Treude
University of Adelaide, Australia
Australia

Corina S. Pasareanu
Carnegie Mellon University Silicon Valley, NASA Ames Research Center

Dan Hao
Peking University, China
China

Daniel Mendez
Blekinge Institute of Technology
Sweden

David Lo
Singapore Management University
Singapore

Denae Ford
Microsoft Research
United States

Diego Garbervetsky
University of Buenos Aires and CONICET, Argentina
Argentina

Diomidis Spinellis
Athens University of Economics and Business

Diptikalyan Saha
IBM Research India

Dirk Beyer
LMU Munich, Germany
Germany

Elisabetta Di Nitto
Politecnico di Milano
Italy

Emad Shihab
Concordia University
Canada

Emerson Murphy-Hill
Google


Federica Sarro
University College London, UK
United Kingdom


Foutse Khomh
Polytechnique Montréal
Canada


Gail Kaiser
Columbia University
United States


Georgios Gousios
Facebook & Delft University of Technology
Netherlands


Gordon Fraser
University of Passau
Germany


Gregorio Robles
Universidad Rey Juan Carlos
Spain


Hadi Hemmati
University of Calgary
Canada


Hamid Bagheri
University of Nebraska-Lincoln, USA


Hao Zhong
Shanghai Jiao Tong University
China


Helene Waeselynck
LAAS-CNRS
France


Hitesh Sajnani
Engineering Systems Group, Microsoft


Jeff Huang
Texas A&M University


Jie M. Zhang
University College London, UK
United Kingdom


Jin L.C. Guo
McGill University
Canada


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University of Chile
Chile


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Argentina


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TU Wien and MIT
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Justyna Petke
University College London
United Kingdom


Kelly Blincoe
University of Auckland
New Zealand


Lars Grunske
Humboldt-Universität zu Berlin
Germany


Laura Moreno
Colorado State University
United States


Leonardo Mariani
University of Milano Bicocca
Italy


Lingming Zhang
University of Illinois at Urbana-Champaign, USA
United States


Lori Pollock


Marcelo d'Amorim
Federal University of Pernambuco
Brazil


Mark Harman
University College London, UK
United Kingdom


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Mary Lou Soffa
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Massimiliano Di Penta
University of Sannio, Italy
Italy


Mauro Pezze
USI Lugano, Switzerland
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Luxembourg


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Germany


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Paul Grünbacher
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Austria

Paul Ralph
Dalhousie University


Canada


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Georgia Institute of Technology, USA


Rachel Tzoref-Brill
IBM Research
Israel


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Satish Chandra
Facebook, USA
United States


Saurabh Sinha
IBM Research
United States


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Shaukat Ali
Simula Research Laboratory, Norway
Norway


Shin Hwei Tan
Southern University of Science and Technology
China


Shin Yoo
Korea Advanced Institute of Science and Technology
South Korea


Shiva Nejati
University of Ottawa, Canada / University of Luxembourg, Luxembourg
Canada


Shiyi Wei
The University of Texas at Dallas


Sonal Mahajan
Fujitsu Labs, USA
United States


Song Wang
York University
Canada


Sonia Haiduc
Florida State University
United States


Sven Apel
Saarland University, Germany
Germany


Tao Xie
Peking University


Tevfik Bultan
University of California, Santa Barbara
United States

Thomas Fritz
University of Zurich
Switzerland

Thomas LaToza
George Mason University, USA
United States

Thorsten Berger
Chalmers University of Technology, Sweden / University of Gothenburg, Sweden
Sweden

Ting Liu
Xi'an Jiaotong University
China

Tingting Yu
University of Kentucky
United States

Venera Arnaoudova
Washington State University
United States

Wei Le
Iowa State University

Weihang Wang
University at Buffalo, SUNY
United States

Wensheng Dou
Institute of Software, Chinese Academy of Sciences
China

Wing-Kwong Chan
City University of Hong Kong, Hong Kong
China

Xiangyu Zhang
Purdue University

Xin Peng
Fudan University, China
China

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Drexel University
United States

Zhenchang Xing
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Australia

Zhendong Su
ETH Zurich

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