



# ICSE 2018 Technical Papers

## Technical track submissions

### Goals and Scope

ICSE is the premier forum for researchers and practitioners to present and discuss the most recent innovations, trends, outcomes, experiences, and challenges in the field of software engineering. We invite submissions of high quality research papers that describe original and unpublished results on any topic of empirical or theoretical software engineering research. We welcome submissions addressing topics across the full spectrum of software engineering, broadly construed. In addressing the question of scope, we seek to be inclusive, provided that your submission addresses issues of concern to software engineering researchers or practitioners (or both).

Topics of interest to ICSE 2018 include (but are certainly not limited to):

- Agile software development
- Autonomic and (self-)adaptive systems
- Component-based software engineering
- Crowd sourced software engineering
- Debugging, fault localization, and repair
- Distributed and collaborative software engineering
- Empirical software engineering
- Formal methods
- Human and social aspects of software engineering
- Middleware, frameworks, and APIs
- Mobile applications
- Parallel, distributed, and concurrent systems
- Program analysis
- Program synthesis
- Recommendation systems
- Requirements engineering
- Search-based software engineering
- Software architecture
- Software evolution and maintenance
- Software performance
- Software product lines
- Apps and app store analysis
- Cloud computing
- Configuration management and deployment
- Cyber physical systems
- Dependability, safety, and reliability
- Embedded software
- End-user software engineering
- Green and sustainable technologies
- Human-computer interaction
- Mining software engineering repositories
- Model-driven engineering
- Performance
- Program comprehension
- Programming languages
- Refactoring
- Reverse engineering
- Security, privacy and trust
- Software economics and metrics
- Software modeling and design
- Software process
- Software reuse

- Software services
- Software visualization
- Tools and environments
- Ubiquitous/pervasive software systems

Blogs >> (<https://web.archive.org/web/20170819025502/http://www.icse2018.org/blogposts>)

- Software testing
- Specification and modeling languages
- Traceability
- Validation and verification

And, any paper about “software engineering for X” needs to clarify its contributions to software engineering, and needs to cover X in a manner that makes it sufficient for the SE readership to understand these contributions.

## Evaluation

All research track submissions will be reviewed using a double-blind review process, in compliance with the submission policy and the scope of the conference. Eligible submissions will be reviewed by at least three members of the Program Committee (PC). Authors will have the opportunity to see their reviews and provide a short clarification, during the clarification period. The final decisions will be made by the Program Board, at the Program Board meeting, based on the reviews from the PC members and the discussions on the meeting.

Research track submissions will be evaluated based on the following criteria:

- **Soundness:** Are all claimed contributions supported by the rigorous application of appropriate research methods? The claims should be scoped to what can be supported, and limitations should be discussed.
- **Significance:** Are contributions evaluated for their importance and impact with respect to the existing body of knowledge? The authors are expected to explicitly argue for the relevance and usefulness of the research and discuss the novelty of the claimed contributions through a comparison with pertinent related work.
- **Novelty:** Is there sufficient originality in the contribution, and is it clearly and correctly explained with respect to the state of the art?
- **Replicability:** Is there sufficient information in the paper for the results to be independently replicated? The evaluation of submissions will take into account the extent to which sufficient information is available to support the full or partial independent replication of the claimed findings.
- **Presentation Quality:** Are results clearly presented? Submissions are expected to meet high standards of presentation, including adequate use of the English language, absence of major ambiguity, clearly readable figures and tables, and respect of the formatting instructions provided below.

## Double Blind Review Process

ICSE 2018 will use double blind reviewing. Referees will not know the identity of authors when writing their reviews. In order to comply with ICSE 2018’s double blind review process, authors should ensure that their identities cannot be easily determined. Submissions from which at least one author can be easily determined and, in the view of the Program Board, for which insufficient care and attention has been paid to ensuring compliance with double blind reviewing may be rejected without review.

You can find further advice, guidance and explanation in the ICSE 2018 double blind review process description (<https://web.archive.org/web/20170819025502/http://www.icse2018.org/track/icse-2018-Double-blind-review>).

## Submission

- All submissions must conform to the ICSE 2018 formatting and submission instructions and must not exceed 10 pages for the main text, inclusive of figures, tables, appendices, etc. Two more pages

containing only references are permitted. All submissions must be in PDF. The page limit is strict, and it will not be possible to purchase additional pages at any point in the process (including after the paper is accepted).

- For MS Word users: Use MS Word docx ICSE 2018 template (<https://web.archive.org/web/20170819025502/http://www.icse2018.org/getImage/orig/ICSE2018-Template.docx>), or use the ACM\_SigConf.docx template following the instructions from NEW ACM formatting guidelines (<https://web.archive.org/web/20170819025502/http://www.acm.org/publications/proceedings-template>). For LaTeX users: Use NEW ACM formatting guidelines (<https://web.archive.org/web/20170819025502/http://www.acm.org/publications/proceedings-template>). Upon unzipping the zip file, run 'make all'. This will produce the acmart.cls file. You should use the conference format described in sample-sigconf.tex to format your paper. You are recommended to use the 'review' option (`\documentclass[sigconf,review]{acmart}`) which will add line numbers, thereby allowing referees to refer to specific lines in their comments, but we do not enforce the use of the 'review' option (that is, we will not desk reject papers for failing to use this option).
- There is no limit on the number of submissions an author may submit, but authors are advised, as always, to focus on quality and not quantity.
- By submitting to the ICSE Research Track, authors acknowledge that they are aware of and agree to be bound by the ACM plagiarism policy and procedures. In particular, papers submitted to ICSE 2018 must not have been published elsewhere and must not be under review or submitted for review elsewhere while under consideration for ICSE2018. 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.
- Submissions must comply with the IEEE Policy on Authorship.
- Please take a particular care to blind your submission. You can submit, optionally, a zip file containing additional data (tool, experiments, etc.), which should also be blinded.
- Papers must be submitted electronically via EasyChair (<https://web.archive.org/web/20170819025502/https://easychair.org/conferences/?conf=icse2018>) by the stated deadline. The deadline is firm and not negotiable.

## Important Dates:

- Submission Deadline: 25th August 2017 at 11.59 p.m. AoE (Anywhere on Earth)
- Author response: 12th November 2017 to 15th November 2017.
- Notification: 15th December 2017.
- Camera Ready Due: 12th February 2018.

## Organization:

### Program Committee Chairs

- Marsha Chechik (<https://web.archive.org/web/20170819025502/http://www.cs.toronto.edu/~chechik/>), University of Toronto, Canada
- Mark Harman (<https://web.archive.org/web/20170819025502/http://www0.cs.ucl.ac.uk/staff/M.Harman/>), Facebook and University College London, United Kingdom

Important Dates	🌐⌚ AoE (UTC-12h)
Fri 25 Aug 2017 Submission deadline	

Sun 12 - Wed 15 Nov 2017

Blogs >> (<https://web.archive.org/web/20170819025502/http://www.icse2018.org/blogposts>)

Author response

Fri 15 Dec 2017

Notifications

Mon 12 Feb 2018

Camera ready

## Submission Link

 <https://easychair.org/conferences/?conf=icse2018><https://web.archive.org/web/20170819025502/https://easychair.org/conferences/?conf=icse2018>)

## Program board

<https://web.archive.org/web/20170819025502/http://www.icse2018.org/committee/icse-2018-technical-papers-program-board>)

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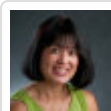
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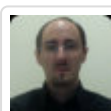
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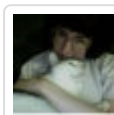
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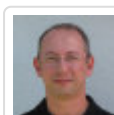
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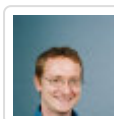




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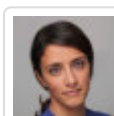
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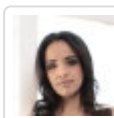


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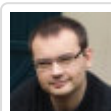
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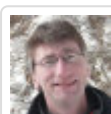
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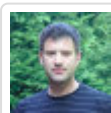
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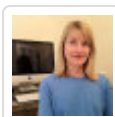
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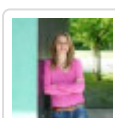
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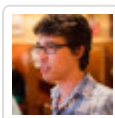
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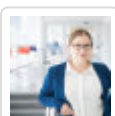
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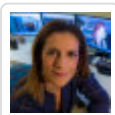
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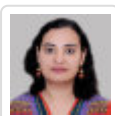
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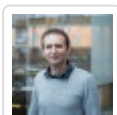
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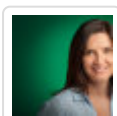
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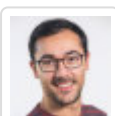
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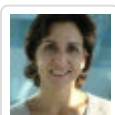
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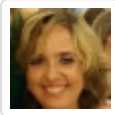


**Iero**

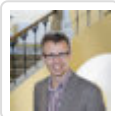
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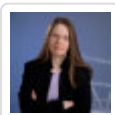
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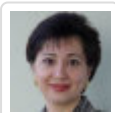
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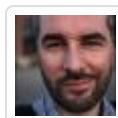


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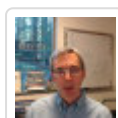


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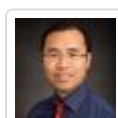


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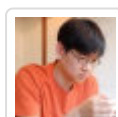


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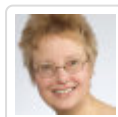


**Shin Yoo**

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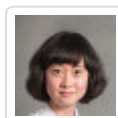


**Pamela Zave**

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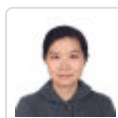


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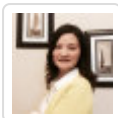
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**Yuanyuan Zhou**

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