

ICSE 2023 Review Process and Guidelines

v1.0 - March 2022

2023 Program Co-Chairs
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Based on ICSE 2022 Review Process and Guidelines by Daniela Damian and Andreas Zeller
ICER 2021 training slides by Amy Ko and Jan Vahrenhold,
with material from Arie van Deursen and Tao Xie

What's New

1.1

1. Adherence to the ACM policy on studies with human subjects
2. Paper classification into areas
3. Topic classification
4. Scope specification for different areas

1.2

1. Role of area chairs
2. Role of one designated reviewer in checking online artifacts

1.3

1. Second response period (for designated papers)

Overview

Welcome! These slides explain the ICSE review process and prepare you to constructively and fairly evaluate submissions. We discuss

1. [The Program Committee](#)
2. [Important Dates](#)
3. [HotCRP Setup](#)
4. [Bidding](#)
5. [Paper Assignment](#)
6. [Reviewing, including Review Criteria](#)
7. [Area-specific scope definition](#)
8. [Authors' Response; Post-Rebuttal](#)
9. [Discussion](#)
10. [Final Decisions, including Entering Meta-Reviews](#)

Reviewing this guide
should take **less than one hour.**

Our Goals

- Accept **high quality papers**
- Give **clear feedback** to papers of insufficient quality
- **Consistency** in paper evaluation
- **Transparency** in the review process
- Ensure an **unbiased** decision-making process
- Embrace **diversity** of perspectives, but work in an **inclusive, safe, collegial** environment
- Drive decisions by **consensus** among reviewers
- Have a **scalable process** for 600+ papers
- Manageable **workload** for PC members
- **Do our best** on all of the above

HotCRP

All reviewing takes place on the **HotCRP conference management system**. Whenever practical, we include here screenshots to illustrate relevant features.

But first, make sure you can sign in, then bookmark it:

<https://icse2023.hotcrp.com>

After you are signed in, **visit your profile page** to enter your [topics of interest](#).

1. The Program Committee

Reviewers

199 PC members (reviewers)

- Write high quality **reviews**
- Check quality of **co-reviews**
- Participate in **discussion** and the **recommendation** on the paper
- Act as **discussion leads** on $\sim\frac{1}{3}$ of papers assigned to them
- Act as **artifact assessor** on $\sim\frac{1}{3}$ of papers assigned to them
- Since the process is double-anonymized, reviewers **won't know the authors' identity** at any time during the process.

A small subset of the reviewers will act as rapid reviewers (smaller initial workload, ready to backup in case of emergencies)

Discussion Leads

- One of the three reviewers assigned to the paper
- Check **quality** of reviews and work with reviewers to improve if needed, *before they reach authors for the response period*
- Moderate **discussion** among the paper reviewers
- Build **consensus** where possible
- Make a **recommendation** on the paper
- Write **meta-review**, explaining decision rationale, and the extent to which the authors' response influenced such a decision

Discussion leads for a paper are assigned as the discussion period starts, with a preference towards reviewers with *expertise* and a *positive stance*.

Artifact assessor - *new this year!*

- One reviewer for each paper will be assigned to perform a sanity check on the enclosed artifacts (or, if artifacts are not there, on the reasons for not including them)
- The assessment has to be lightweight, and its only purpose is to check whether the artifacts contain what is declared in the paper
- We do not require a full reproduction study (this is the goal of the artifact evaluation track, should authors of accepted papers decide to submit there.
- The assessment outcome will be discussed with the other reviewers, if needed.
- Later on, we will see how artifact assessment information can be filled in the reviewing form

Area Chairs

- Assist in **PC selection**
- Assist in checking **scope issues**
- Assist in **paper assignment**
- Ensure that **discussion leaders** do their job
- Moderate **discussion** and break tie for no-consensus papers
- Help maintain **consistency** in paper evaluation
- **Synchronize and coordinate** with PC and co-Chairs
- Do **not review** papers (but can submit)
- As regular reviewers, area chairs **do not know the authors' identities**
- Quality check and upload of **metareviews**

Our Area Chairs all have long-standing experience as past PC Chairs in various conferences

About unbiased decision making

In principle, we would like that any decision will be made by:

- Reviewers, for most of the papers; or
- If reviewers cannot reach a consensus, the area chair will make the call

Similar to ICSE 2022, we will try to avoid we as program co-chairs deciding upon acceptance of any paper since we can see the authors.

This will ensure that the outcome of every paper will be decided by somebody that does not know the identity of the authors

Area Chairs

Topic Area	Area Chair (in alphabetical order)
AI and Software Engineering	David Lo , Singapore Management University Denys Poshyvanyk , William and Mary, USA
Dependability	Abhik Roychoudhury , National University of Singapore
Software Analytics	Bram Adams , Queen's University, Canada Kelly Blincoe , University of Auckland, New Zealand
Software Evolution	Andrian Marcus , University of Texas at Dallas, USA
Social Aspects of Software Engineering	Margaret-Anne Storey , University of Victoria, Canada
Testing and Analysis	Myra Cohen , Iowa State University, USA Corina S. Pasareanu , Carnegie Mellon University Silicon Valley, NASA Ames Research Center
Requirements, Modeling and Design	Walid Maalej , University of Hamburg, Germany

Topics

API design and evolution
Apps and app store analysis
Autonomic systems and self adaptation
Configuration management
Crowd-based software engineering
Debugging and fault localization
Design for quality, incl. privacy and security by design
Distributed and collaborative software engineering
Diversity, inclusion, fairness of software
Embedded and cyber-physical systems
Ethics in software engineering
Evolution and maintenance
Feedback, user, and requirements management
Formal methods
Green and sustainable technologies
Human aspects of software engineering
Human-computer interaction
Legal aspects of software engineering
Machine learning with and for SE
Mining software repositories
Model checking
Modeling and model-driven engineering
Parallel and distributed systems
Performance analysis and testing
Privacy and security
Program analysis
Program comprehension
Program repair
Program synthesis
Programming languages
Recommender systems
Refactoring
Release engineering and DevOps
Reliability and safety
Requirements engineering
Reverse engineering
SE for machine learning
Search-based software engineering
Software architecture and product design
Software economics
Software ecosystems
Software metrics and prediction models
Software processes
Software reuse
Software services and cloud-based systems
Software testing
Software traceability
Software visualization
Variability and product lines

Notes

- There is no mapping between areas and topics
- A topic may map to multiple areas
- Upon submitting, the authors choose:
 - The two topmost fitted areas (can be overridden by program co-chairs)
 - One or more topics

Primary area *

Please identify the primary area to which this submission belongs.

Secondary area (optional)

Please identify a secondary area (if any) to which this submission belongs.

Topics

Select any topics that apply to your submission.

- | | | |
|--|--|--|
| <input type="checkbox"/> API design and evolution | <input type="checkbox"/> Human aspects of software engineering | <input type="checkbox"/> Release engineering and DevOps |
| <input type="checkbox"/> Apps and app store analysis | <input type="checkbox"/> Human-computer interaction | <input type="checkbox"/> Reliability and safety |
| <input type="checkbox"/> Autonomic systems and self adaptation | <input type="checkbox"/> Legal aspects of software engineering | <input type="checkbox"/> Requirements engineering |
| <input type="checkbox"/> Configuration management | <input type="checkbox"/> Machine learning with and for SE | <input type="checkbox"/> Reverse engineering |
| <input type="checkbox"/> Crowd-based software engineering | | <input type="checkbox"/> SE for machine learning |
| | | <input type="checkbox"/> Search-based software engineering |

What fits in ICSE, and what does not?

We will come back to the relevance criteria later

That being said, we will consider a paper to be **in scope** if it **makes a contribution to the field of software engineering**

Papers contributing to other fields (e.g., machine learning, compilers, hardware) **without a clear link to software engineering will be considered out of scope**

In the following, we will provide details and examples of what would be expected for papers belonging to different sub-areas of software engineering

Note: some areas (software evolution, in particular) may not have specific restrictions as they inherently represent software engineering topics

Area: Artificial Intelligence and Software Engineering - *outside scope examples*

- A paper that designs a new AI algorithm with no clear link to software engineering or clear justification how it will advance the state of research and/or practice in software engineering
- A paper that applies an existing AI algorithm to non-software engineering data with no clear link to software engineering or clear justification for how it will advance the state of research and/or practice in software engineering
- A paper that provides a theoretical characterization of a property of an AI algorithm with no clear link to software engineering or clear justification for how it will advance the state of research and/or practice in software engineering
- A paper that presents a method claimed to be designed for AI-based systems without describing clearly the context within the software engineering process, task and/or tool in which the method will be used for building/maintaining/testing AI-based systems

Area: Analysis And Testing - *outside scope examples*

- Papers in the analysis/testing track should make a contribution to the software testing/analysis literature. Examples of papers that are out of scope include:
 - Testing and verification performed directly on hardware (with no associated software or language-based representation). Hardware modeling languages (e.g. VHDL) analysis/testing would be considered in scope
 - Compiler-related papers that do not have a direct link to software engineering
 - Analysis of systems without a clear software engineering domain, such as Network analysis papers

Area: Software Dependability - *outside scope examples*

- Papers that only peripherally concern software systems but do not give new insights from the software systems perspective.
- For example:
 - Security papers that do not have a strong software systems flavor
 - Formal verification papers that do not refer to software systems such as papers on hardware verification
 - Core system security papers, e.g. papers about malware analysis (though papers providing strong insights on protecting, defending and engendering trust in software systems may be relevant)
 - Core cryptography papers (though papers with a clear software engineering link, e.g., with innovative software analysis may be relevant)

Area: Requirements, Modeling, and Design – *outside scope examples*

- Product design papers for services and products without a clear software focus
- Hardware modeling or modeling of non-software systems
- Feedback and user analysis papers without a software engineering focus, e.g. focusing on marketing, sales, or social computing
- Privacy and security papers without a clear connection to software design, requirements or other software engineering activities
- Papers discussing the application of a specific technology (e.g. blockchain) to a specific problem (e.g. energy trading in smart cities) without clear software engineering aspects
- Papers covering specific domains (e.g. online education, automotive, banking) without focusing on the software engineering challenges therein

Area: Software Analytics - *outside scope examples*

- Using Mining Software Repository techniques and tools on data not related to software engineering
- Proposing new machine learning/data analytics techniques that are not evaluated on software data, or that only treat software engineering as an application (e.g., no deeper discussion of findings from software engineering point of view, no actionable findings)
- Machine learning and data analytics papers that do not explain the (non-mathematical) intuition and design choices behind their techniques, nor the relevance for solving a software engineering problem. Such papers typically are aimed for an AI audience, and often omit to motivate why certain steps or techniques are essential to a given software engineering problem

Area: Social Aspects - *outside scope examples*

- Papers that focus on human, social, economic and socio-technical aspects without a direct impact on software engineering, development, research and/or education
- Papers that innovate or study the design of software from the perspective of end users that are not software engineering stakeholders (e.g., website design)
- Papers that report on human and social theories that do not consider the context of software engineering development, software research and software education (e.g., a theory of how a mobile app can drive behaviour change)

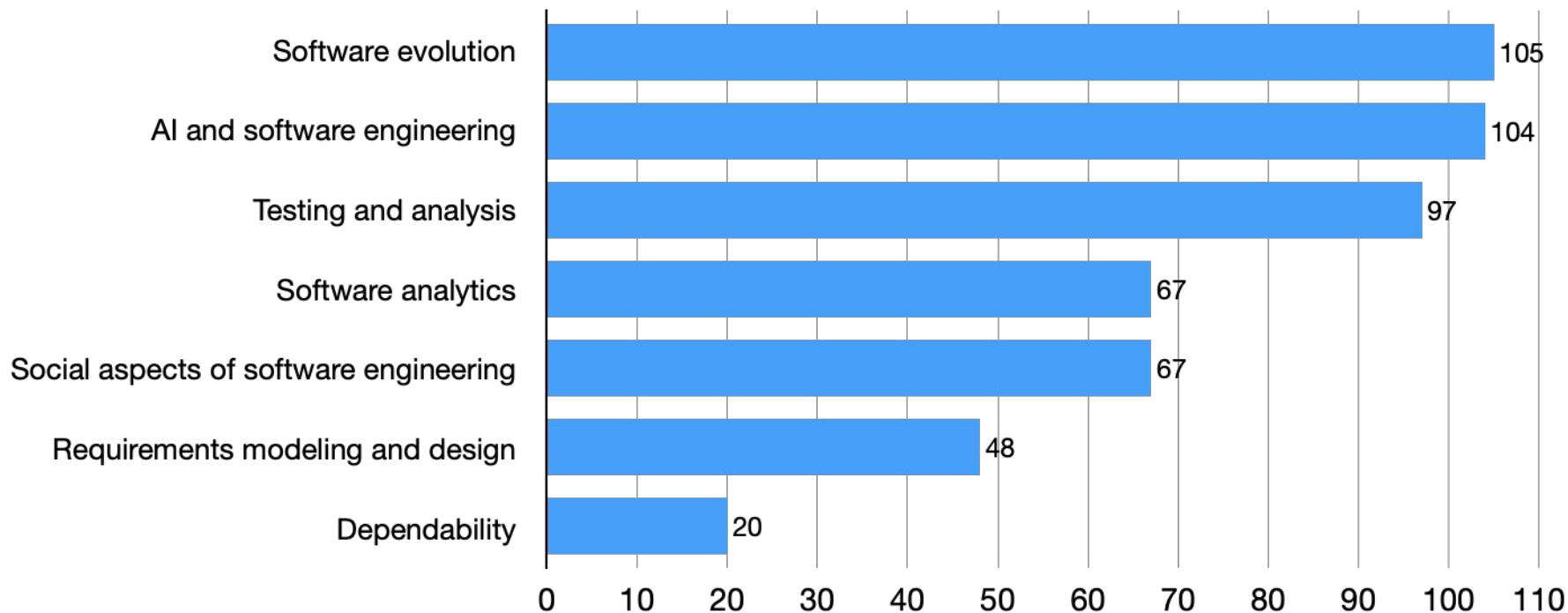
Program Chairs – *Lori and Max*

- Take **responsibility** for technical program
- Define the **call for papers** and associated guidelines
- Define the **review process** and associated guidelines (like this one)
- Select **Area Chairs**
- Compose and lead **program committee***
- **Assign papers** to reviewers*
- Monitor **progress** and **quality** of all reviews and decisions*
- Handle **communication** between Program Committee and authors
- Do **not review or submit** papers
- **If really needed, decide on some papers (but we would try to avoid doing so)**

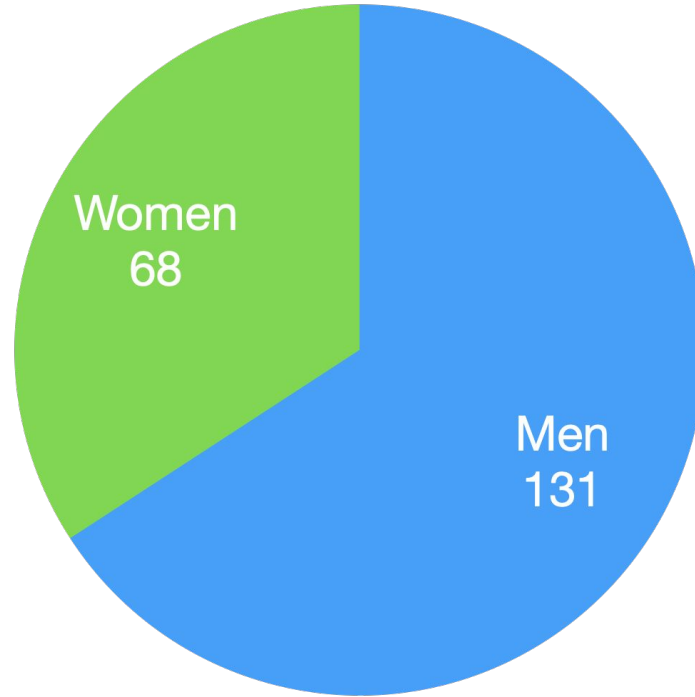
* assisted by Area Chairs

PC Members by Area

Note: a PC member may have expertise in multiple areas

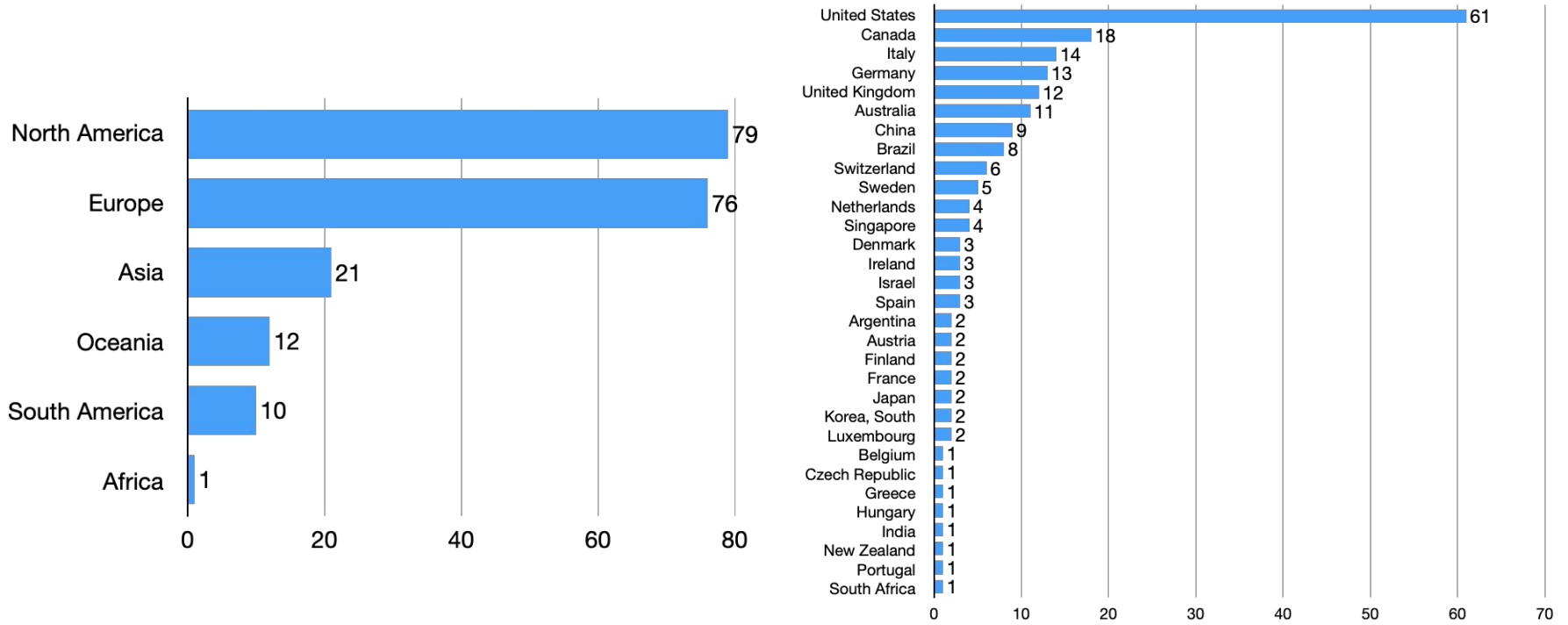


PC Members by Gender

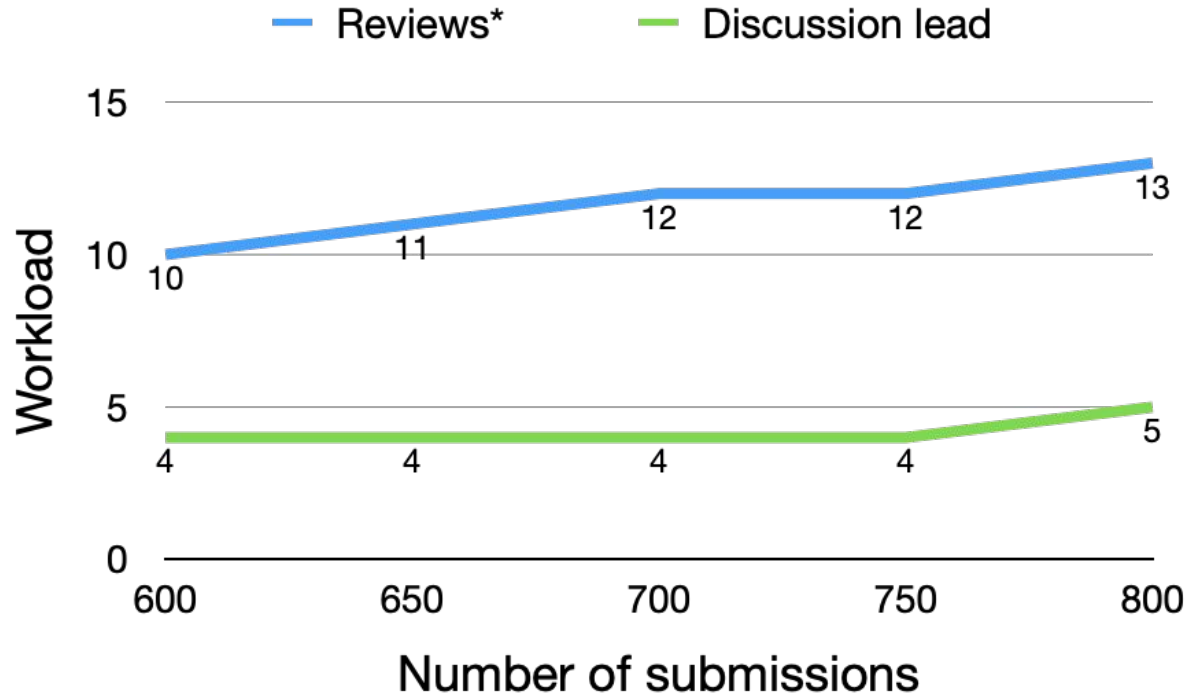


34% Women

PC Members by Continents and Country



Expected Review Workload



* plus one possible additional review in the period Oct 27-Nov 12.

2. Important Dates

Important Dates – *Bidding and Reviewing*

- **Sep 1, 2022: Submission deadline**
- Sep 3-8, 2022: Bid for papers
- Sep 16: Paper assignment released
- Sep 16-Oct 27, 2022: Review papers (6 weeks)
 - Oct 7: 50% of the assigned papers due
 - Oct 27: All reviews due
- Oct 28-Nov 13, 2022: Quality gate
 - Oct 28-Nov 2: Identify whether extra reviews are needed
 - Nov 3-12: Additional reviews, to fill lack of expertise or missing reviews
 - Oct 28-Nov 13 Review quality check (by discussion leaders and area chairs)
- Nov 13, 2022: Quality gate for all reviews (including the ones written later).
- **Nov 14-Nov 19, 2022: Author response phase.**

Author facing dates / Reviewer facing dates and *deadlines*. All dates are AoE.

Important Dates – *Discussion and Decision*

- Nov 21-Nov 22, 2022: Focus days of paper discussions
- Nov 21-Nov 28, 2022: Participate in paper discussions. Propose papers for second rebuttal.
- Nov 24-27 Thanksgiving weekend
- **Nov 29-30, 2022: Second rebuttal for some papers as needed**
- Dec 1-Dec 2, 2022: Focus days of paper discussions.
- Dec 1-5, 2022: Finalize reviews, reactions, and meta-reviews
 - Dec 5: all metareviews due
- **Dec 9, 2022: Notification day**

Author facing dates / Reviewer facing dates and *deadlines*. All dates are AoE.

3. HotCRP Setup

By June 30

Your Profile

In your [HotCRP profile](#), please review and add your information. For example:

Profile

ⓘ Please enter your topic interests
We use topic interests to improve the paper assignment process.

Email

First name (given name) Last name (family name)

Affiliation

Country/region

ORCID iD (optional)

[ORCID iDs](#) are persistent global identifiers that can disambiguate researchers with the same name.

If you have **multiple mail addresses**, consider "Merge with another account", below

Collaborators and Affiliations

In your HotCRP profile, list all authors and institutions you have a conflict with. This is typically copied from earlier service on HotCRP.

Collaborators and other affiliations

List potential conflicts of interest one per line, using parentheses for affiliations and institutions. We may use this information when assigning reviews.

Examples: "Ping Yen Zhang (INRIA)", "All (University College London)"

A program committee member (including the chair of the committee) is considered to have a conflict of interest on a submission that has an author in any of the following categories:

1. the person themselves;
2. a past or current student or academic advisor;
3. a supervisor or employee in the same line of authority within the past three years;
4. a member of the same organization (e.g., company, university, government agency, etc.) within the past three years;
5. a co-author of a paper appearing in publication within the past three years;
6. someone with whom there has been a financial relationship (e.g., grants, contracts, consultancies, equity investments, stock options, etc.) within the past three years;
7. someone with whom acceptance or rejection would further the personal goals of the reviewer (e.g., a competitor);
8. a member of the same family or anyone considered a close personal friend; or
9. someone about whom, for whatever reason, their work cannot be evaluated objectively.

Committee members must declare their conflicts to the program chair before any discussions of the submissions begin.

All (University of Sannio, Italy)

Conflicts of Interest

ICSE takes conflicts of interest, both **real** and **perceived**, seriously.

The conference adheres to the [ACM conflict of interest policy](#), the [SIGSOFT conflict of interest policy](#), and the [IEEE Submission and Peer Review Policies](#).

Authors you have a conflict of interest with include

- past advisors and students;
- people with the same affiliation; and
- any recent (≤ 3 years) coauthors and collaborators.

Managing Conflicts of Interest

No PC member, Area Chair or co-Chair with a conflict of interest in the paper will be included in any evaluation, discussion, or decision about the paper.

It is the responsibility of the PC members, Area Chairs and co-Chairs to **declare their conflicts of interest** throughout the process.

It is the responsibility of the PC chairs to ensure that no member of the PC or Area Chair is assigned a role in the review process for any paper for which they have a conflict of interest.

Conflicts of Interest on HotCRP

In HotCRP, **authors declare conflicts against PC members**. There is no need for you to check on each paper (or author). Col papers will be excluded from bidding.

You will be excluded from all future evaluation, discussion, and decisions of that paper. Program chairs and area chairs will also specify conflicts of interest.

We will sample declared conflicts of interest for plausibility and consistency.

If you at any time, discover a conflict of interest, let us know immediately.

Topics of Interest

In your HotCRP profile, indicate the **conference topics** you're interested in.

As shown before, you will get a warning if topics are not filled.

Topic interests

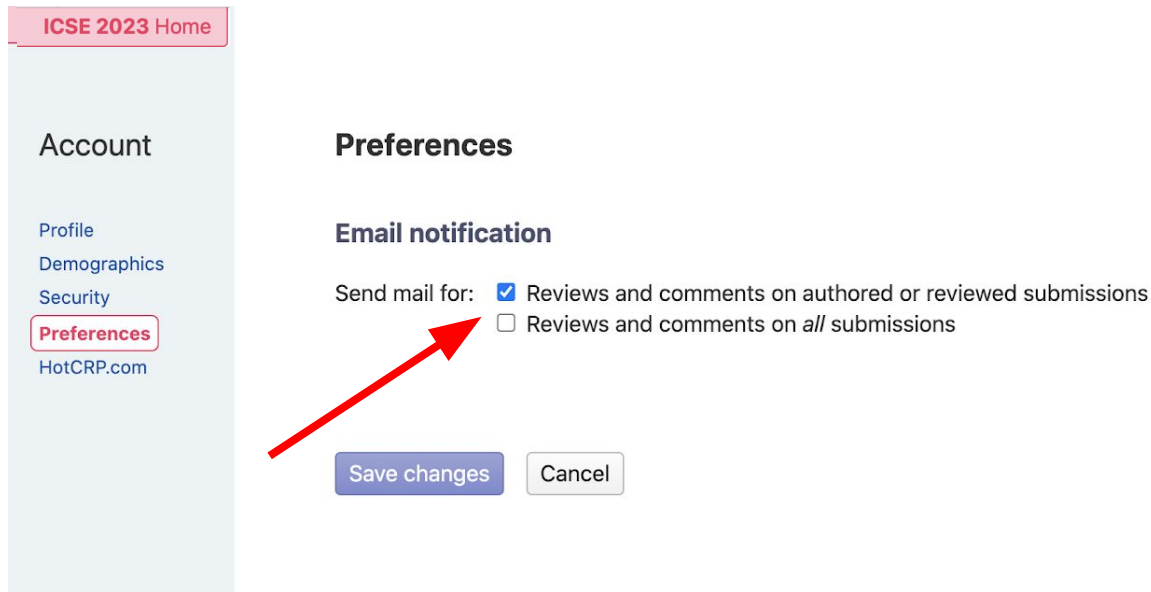
Please indicate your interest in reviewing papers on these conference topics. We use this information to help match papers to reviewers.

	Low			High	
	↓	↓	○	↑	↑
API design and evolution	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apps and app store analysis	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Autonomic systems and self adaptation	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Configuration management	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Crowd-based software engineering	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Debugging and fault localization	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you do not see these boxes, you are not logged in as PC member, but using a different HotCRP account. Use HotCRP to merge your accounts.

Get Notified

Under "Preferences" (left bar), be sure to **enable HotCRP notifications**.



The screenshot shows the user interface for the 'Preferences' section. On the left is a navigation sidebar with the following items: 'Account', 'Profile', 'Demographics', 'Security', 'Preferences' (highlighted with a red border), and 'HotCRP.com'. The main content area is titled 'Preferences' and contains an 'Email notification' section. Under this section, there is a label 'Send mail for:' followed by two checkboxes. The first checkbox is checked and is associated with the text 'Reviews and comments on authored or reviewed submissions'. The second checkbox is unchecked and is associated with the text 'Reviews and comments on *all* submissions'. Below these options are two buttons: 'Save changes' and 'Cancel'. A red arrow points from the bottom left towards the checked checkbox.

Make sure you select the right boxes for your preferences.

4. Bidding

September 3-8, 2022

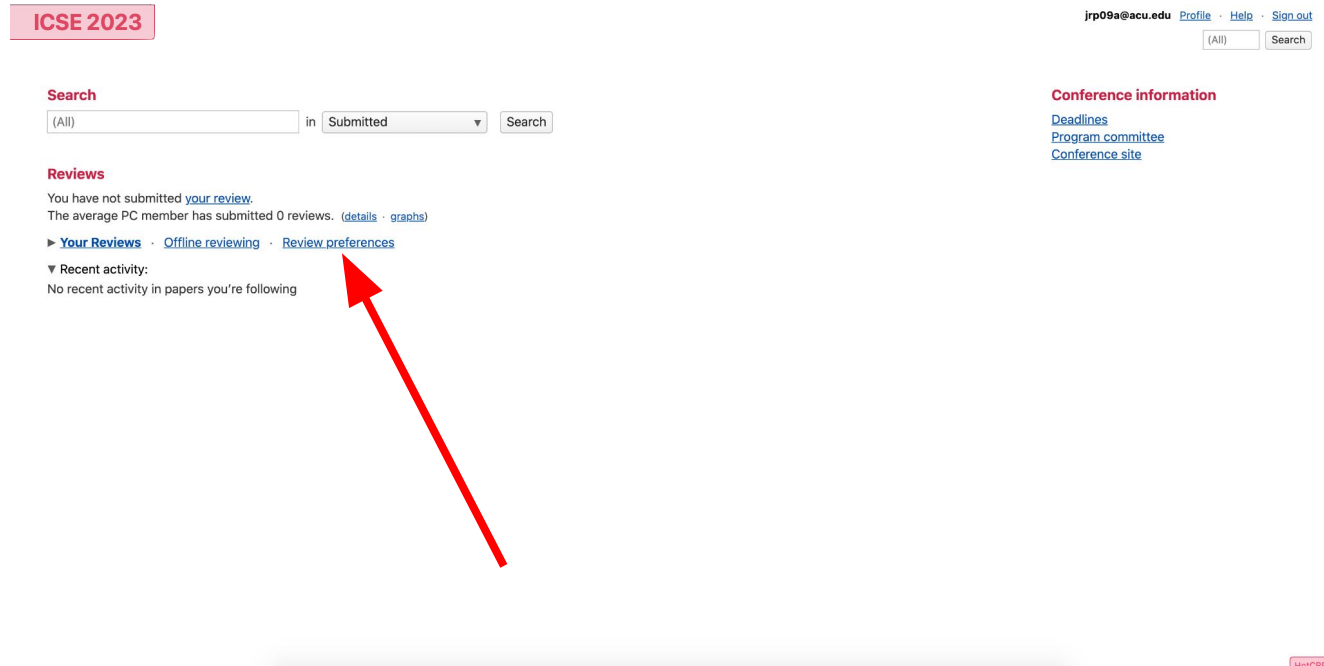
Bidding

The purpose of bidding is to express your **expertise** and **eligibility** for fairly evaluating the work. It is **not** to express interest in papers you want to read. These are subtly but importantly different purposes.

- Bid on *all* of the papers you believe you have **sufficient expertise** to review. Sufficient expertise includes knowledge of research methods used and prior research on the phenomena. Practical knowledge of a topic is helpful, but insufficient.
- Don't bid on papers about topics, techniques, or methods that you **strongly oppose**. That precludes authors from being fairly reviewed by reviewers without such bias.

HotCRP – *How to Bid*

After the abstract deadline has closed, but before the full paper deadline, you can bid on papers you'd like to review. To do that, click “Review Preferences” on the homepage.



The screenshot shows the HotCRP interface for the ICSE 2023 conference. At the top right, there is a user profile section for 'jrp09a@acu.edu' with links for 'Profile', 'Help', and 'Sign out', and a search box containing '(All)'. Below this is a 'Search' section with a search bar containing '(All)', a dropdown menu set to 'Submitted', and a 'Search' button. The 'Reviews' section is highlighted in pink and contains the following text: 'You have not submitted [your review](#). The average PC member has submitted 0 reviews. ([details](#) · [graphs](#))'. Below this are three links: '▶ [Your Reviews](#) · [Offline reviewing](#) · [Review preferences](#)'. A red arrow points to the 'Review preferences' link. At the bottom of the 'Reviews' section, there is a 'Recent activity' section with the text 'No recent activity in papers you're following'. At the bottom right of the page, there is a 'Log out' button.

HotCRP - *Review Preferences*

On the review preferences page, you can indicate your level of interest in a particular paper (scale: -20 to +20) so that automated assignment can accurately place you into reviewing the right papers.

ICSE 2023 jrp09a@acu.edu [Profile](#) · [Help](#) · [Sign out](#)

Review preferences (All)

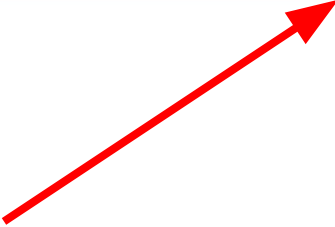
***** A review preference is a small integer that indicates how much you want to review a submission. Positive numbers mean you want to review, negative numbers mean you don't, and -100 means you think you have a conflict. -20 to 20 is a typical range for real preferences; multiple submissions can have the same preference. The automatic assignment algorithm attempts to assign reviews in descending preference order. Different users' preference values are not compared and need not use the same scale.

Select a column heading to sort by that column. Enter preferences in the text boxes or on the paper pages. You may also upload preferences from a text file; see the "Download" and "Upload" links below the paper list.

Search
Show Abstract

<input type="checkbox"/> ID▼	Title	Preference	Review
<input type="checkbox"/>	#9 This is the title of the paper	<input type="text" value="-2"/>	
<input type="checkbox"/>	#72 Ray's awesome paper title	<input type="text" value="10"/>	<input type="button" value="R1"/>

then [Download](#) · [Upload](#) · [Set preferences](#)



HotCRP

HotCRP - *Time for Bidding*

Reserve at least **three-four hours** for bidding. Reading all these titles and abstracts takes time.

You can **bid in several sessions** to avoid fatigue. We recommend doing it over a few days. HotCRP automatically saves your bids.

Note that not all abstracts may actually materialize into papers.

HotCRP - *Resubmissions*

If you find a paper you have reviewed earlier, take a quick look at the paper.

- If you see **reasons to be positive** (you see improvements, or you were a champion in the earlier version already), feel free to enter a positive bid on it.
- If you foresee that you will **repeat the same criticism** as for the previous version, we suggest you don't enter a positive bid on the paper this time, so that another PC member can have a fresh perspective.
- If the past version of the paper suggested **scientific misconduct** or **non-ethical behavior**, inform the PC chairs such that they can apply extra scrutiny.

5. Paper Assignment

by September 16, 2022

Anonymity

As stated in the call for papers, submissions are supposed to be **sufficiently anonymous** that a reader cannot determine the identity or affiliation of the authors.

The main purpose of the doubly-anonymous reviewing process is to **reduce the influence of potential biases on reviewers' assessments**. You should be able to review the work without knowing the authors or their affiliations.

Do not try to find out the identity of authors. (Most guesses will be wrong anyway.)

Anonymity

The call for papers defines what constitutes sufficient anonymization:

- Authors' names must be omitted from the submission.
- All references to the author's prior work should be in the third person.
- Authors are encouraged to title their submission differently than preprints of the authors on ArXiv or similar sites. During review, authors should not publicly use the submission title.

If you encounter an egregious breach of anonymity, let the PC chairs know.

Avoid discovering identities by chance

If possible, please turn off (or do not look at) Google Scholar recommendations (or similar ones) during the reviewing process

In the past, reviewers were recommended ArXiv reports related to papers they were reviewing

When looking at online data packages, please be aware that looking at file metadata, versioning system logs and other change logs may reveal the authors' identities. Please refrain to do so.

Desk Rejections

The PC chairs will review each submission for papers that violate anonymization requirements, ACM Formatting instructions, plagiarism policies, or out of scope papers (with the help of area chair). Authors of desk rejected papers are notified immediately.

We will work as hard as we can, but will not catch every issue. If you see something during review that you believe should be desk rejected, contact the chairs **before** you write a review. The chairs will make the final judgement about whether something is a violation, and give you guidance on whether (and if so, how) to write a review.

Review Assignment

Based on your bids and their judgement, the PC chairs in collaboration with the Area Chairs will **assign at least three PC members** for each submission. We will be advised by the HotCRP assignment algorithm, which depends on your bids.

Remember, for these assignments to be fair and good, your bids should **only** be based on your expertise. Interest alone is not sufficient for bidding on a paper. The chairs will review the algorithm's assignments to identify potential misalignments with expertise, but you are best positioned to assess your expertise.

Review Assignment

You will get an email when your review assignment is available on HotCRP.

Please **check your assignment immediately** (including the PDF files of the papers) for possible conflicts of interest – for instance, if you recognize the paper as having been written by a person you have a conflict with.

HotCRP - *Homepage After Reviews Assigned*

After papers have been assigned to reviewers, you can see your assigned reviews on the homepage. Click each one to see the submission and review it.

ICSE 2023

Search (All) in Submitted Search

Reviews
You have not submitted [your review](#).
The average PC member has submitted 0 reviews. ([details](#) · [graphs](#))
The site is not open for reviewing.

▼ [Your Reviews](#) · [Review preferences](#)

ID	Title	Review
#72	Ray's awesome paper title	21

▼ Recent activity:
No recent activity in papers you're following

[jrp09a@acu.edu](#) [Profile](#) · [Help](#) · [Sign out](#)

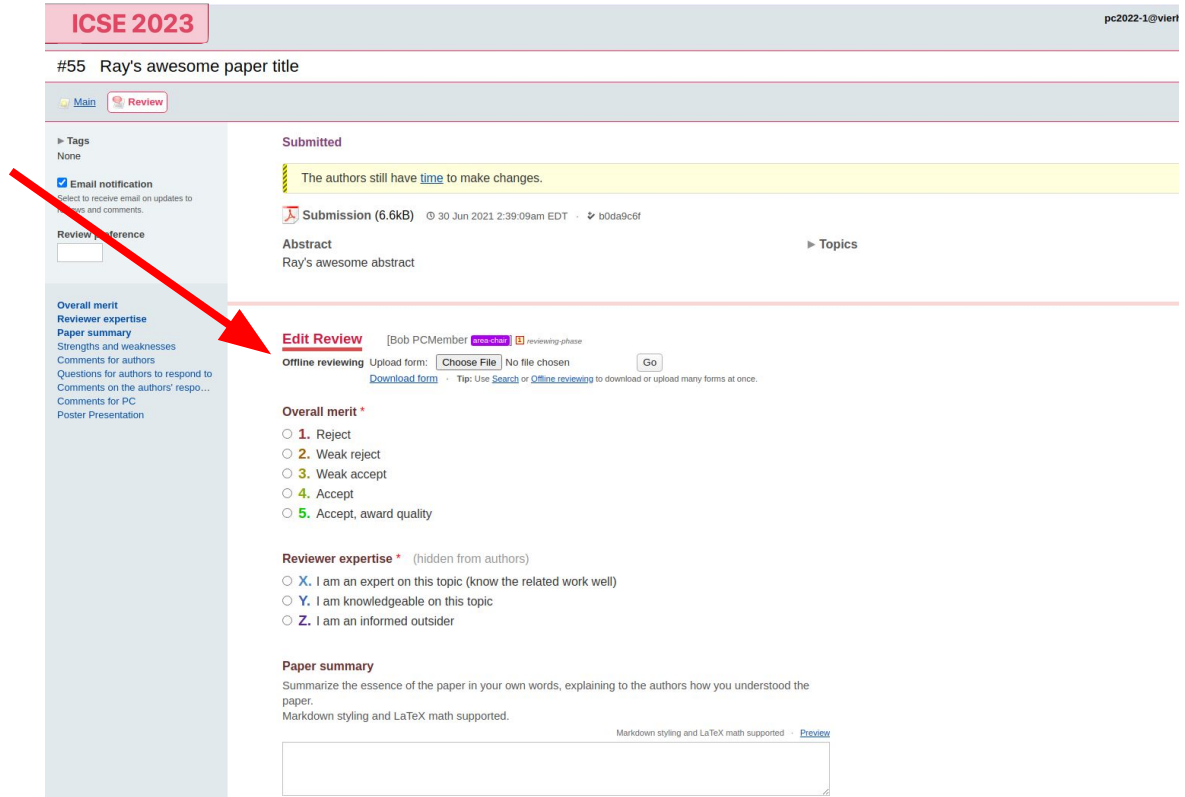
(All) Search

Conference information
[Deadlines](#)
[Program committee](#)
[Conference site](#)

HotCRP

HotCRP - *Offline Reviewing*

There is an option to review offline. Click “Download form”, fill it out, and then upload it using the “Choose File” button. If you do offline review, DO NOT delete the word “ready”.



The screenshot displays the HotCRP interface for ICSE 2023. The page title is "#55 Ray's awesome paper title". The user is logged in as "pc2022-1@vier". The interface is divided into a left sidebar and a main content area.

Left Sidebar:

- Tags: None
- Email notification: (Select to receive email on updates to this paper and comments.)
- Review reference:
- Overall merit
- Reviewer expertise
- Paper summary
- Strengths and weaknesses
- Comments for authors
- Questions for authors to respond to
- Comments on the authors' response
- Comments for PC
- Poster Presentation

Main Content Area:

- Submitted: The authors still have [time](#) to make changes.
- Submission (6.6kB): 30 Jun 2021 2:39:09am EDT, bda9a5cf
- Abstract: Ray's awesome abstract
- Topics: [▶ Topics](#)
- Edit Review** [Bob PCMember] [area chair] [reviewing phase]
- Offline reviewing: Upload form: No file chosen
[Download form](#) - Tip: Use [Search](#) or [Offline reviewing](#) to download or upload many forms at once.
- Overall merit *
 - 1. Reject
 - 2. Weak reject
 - 3. Weak accept
 - 4. Accept
 - 5. Accept, award quality
- Reviewer expertise * (hidden from authors)
 - X. I am an expert on this topic (know the related work well)
 - Y. I am knowledgeable on this topic
 - Z. I am an informed outsider
- Paper summary: Summarize the essence of the paper in your own words, explaining to the authors how you understood the paper. Markdown styling and LaTeX math supported.

6. Reviewing

September 16 – November 13

Review — *A Strategy*

1. Remember to refer to this slide when reviewing. Bookmark it!
2. Before reading a paper, remember the reviewing criteria by reviewing these slides.
3. Read the paper, and as you do, note **positive and negative aspects** for each of the five criteria.
4. Use your notes to **outline a review organized by the five criteria**, so authors can understand your judgments for each criteria.
5. **Draft your review** based on your outline.
6. Edit your review, making it as **constructive and clear as possible**. Even a very negative review should be respectful to the author(s), helping to educate them.
7. Based on your review and your assessment of the individual criteria, choose a recommendation score.

Review Criteria

At ICSE, we evaluate papers against *five criteria*, as independently as possible.

- Soundness
- Significance
- Novelty
- Verifiability and Transparency
- Presentation

All these are defined in the [call for papers](#) (read!) and the associated [Q&A](#) (read!). Both are ground truth for evaluating papers; but let's go a bit further into details.

Review — *Soundness*

The extent to which the paper's contributions and/or innovations address its research questions and are supported by rigorous application of appropriate research methods

The paper should answer the questions it poses, and it should do so with rigor in its research methodology (including choosing an appropriate research methodology and procedures). This is an important difference between research papers and other kinds of knowledge sharing (e.g., experience reports), and the source of certainty researchers can offer.

Review — *Soundness*

Note that **soundness is relative to claimed research contributions**. For example, if a paper claims to have provided evidence of causality, but its methods did not do that, that would be grounds for critique. But if a paper only claimed to have found a correlation, and that correlation is a notable discovery that future work could explain, critiquing it for not demonstrating causality would be inappropriate.

In general, the **extent of evaluation required** is relative to the novelty of the ideas:

- A novel idea with great potential can make a very valuable paper even with only preliminary evaluation, whereas
- An incremental idea might need more support.

Review — *Soundness*

Because soundness is relative to claimed contribution and research methodology:

- **Avoid** applying criteria for quantitative methods to qualitative methods or industrial studies (e.g., critiquing a case study for a “small N” makes no sense; that is the point of a case study).
- Every contribution has limitations with respect to generalizability. **Welcome** contributions from studies where generalizability is not possible or is not the goal, and that clearly explain assumptions and scope of contribution.
- **Formal claims of soundness** are appropriate if the assumptions are clearly stated.

Review — *Soundness*

Because soundness is relative to claimed contribution and research methodology:

- **Avoid** critiquing a lack of a statistically significant difference for case study research, or if the study demonstrates sufficient power to detect a difference; a lack of statistical difference can be a discovery, too.
- **Avoid** asking for the paper to do more than it claims if the demonstrated claims are sufficiently publishable (e.g., “I would publish this if it had also demonstrated knowledge transfer”).
- **Avoid** relying on inexperienced, anecdotal judgements (e.g., “I don’t know much about this but I played with it once and it didn’t work”).
- **Do** take into account the **effort** it took to run the study; this contributes to the value of results.

One evaluation size does not fit all!

- When assessing the (empirical) evaluation of a piece of research (or empirical research in general), please contextualize the evaluation size to its context and method
- Should you really believe the evaluation is too small for the given context, it is not sufficient to just say so. **You must also provide clear indications on how to perform (with reasonable efforts, costs, and time) a better evaluation in that context.**

Assessing the evaluation size - checklist

- What is the type of study? What is its intended generalizability?
- Do the authors justify the evaluation size?
- If the evaluation involves software artifacts, how difficult is to obtain such kinds of artifacts? (e.g., open source projects, specific industrial systems, requirement/design artifacts do not have the same availability)
- If the evaluation involves human participants, how difficult is to recruit them? (e.g., students, generic developers, developers belonging to a very specific domain, project managers are different)
- What would be the effort and time required from the participants' side in the study? (e.g., interview-based studies may require a conspicuous time and effort from the participants)
- Does the study require a manual analysis, or is it fully automated? (this also impacts the evaluation size)

Review — *Significance*

The extent to which the paper's contributions beyond prior work in terms of implications for software engineering research and practice, and if needed, under which assumptions

In all generality, impact relates to advances in the practice of software engineering (including making software less costly, more maintainable, more reliable, more reusable, safer, more secure, more usable ... – this is not an exhaustive list)

Note that it is the **authors' responsibility** to explain and interpret the significance of their contributions, why they matter, what their potential implications will be, and under which assumptions.

Review — *Significance*

We expect papers to be *significant*. Hence, you should evaluate how their contributions can have implications for software engineering research and practice. Therefore:

- **Take the perspective of the targeted stakeholder:** How would this advance our knowledge? How could this impact my work? Under which assumptions?
- **Do** assess technical contributions in light of **all** involved costs and risks. Weigh reported utility against required effort for setup and maintenance.
- **Assess** technical contributions not only by their evaluation results, but also by the **potential implications** of the underlying ideas.
- **We welcome insights** about the **practice of software engineering**, notably in industry.

Review — *Significance*

We expect papers to be *significant*. Hence, you should evaluate how much their contributions have implications *for* software engineering research and practice. Therefore:

- Make sure the authors outline a **sound discussion on possible implications** for their work. Also, keep in mind that different people can have different views on that
- **Do** consider that the path towards impact may be **long and winding**, and subject to several assumptions.
- **Do** consider that impact can also result through **methodological contributions**.
- **Be cautious about** accepting a paper that has little significance.
- **But dare to fight** for papers that can be significant, even if they may have other weaknesses – no novel work is perfect from the beginning.

Review — *Novelty*

The extent to which the contributions are sufficiently original with respect to the state-of-the-art

Grounded in adequate review of prior work in a respective topic, it is up to the authors to convince you that the discoveries advance our knowledge in some way, whether it sheds more light on prior work, or adds a significant new idea.

Secondarily, there should be **someone who might find the discovery interesting**. It does not have to be interesting to you, and you do not have to be 100% confident that an audience exists. **A possible audience** is sufficient for publication, as the PC does not necessarily perfectly reflect the broader audience of readers.

Review — *Novelty*

Because advances can come in many forms, there are many critiques that are inappropriate in isolation (if many of these apply, they may justify rejection). But:

- **We welcome original ideas** that have a clear potential of impacting the field of Software Engineering.
- **Avoid** penalizing a paper because a single paper was already published on the topic. Discoveries accumulate over many papers, not just one.
- **Avoid** penalizing "immature" work that contributes a really new idea for not yet having everything figured out about it. That can require multiple papers.
- **Avoid** penalizing work because you don't think the results are generalizable enough or were only done in a specific context. Generalizability takes time, and some types of qualitative work don't intend generalizability.

Review — *Novelty*

Because advances can come in many forms, there are many critiques that are inappropriate in isolation (if many of these apply, they may justify rejection). But:

- **Avoid** dismissing investigations of phenomena you personally don't like (e.g., "I hate object-oriented languages, this work doesn't matter").
- **Avoid** penalizing papers because they add only a few data points to our base of knowledge. Such data points can be difficult to obtain and thus be valuable.
- **We welcome replications** of previous work, because they shed more light into certainty and validity of important previous research.
- Therefore, avoid penalizing work for "only" being a replication.

Review — *Novelty*

Because advances can come in many forms, there are many critiques that are inappropriate in isolation (if many of these apply, they may justify rejection). But:

- **Do not** reject papers just because it has **negative results**. Check whether they are original with respect to the state-of-the-art.
- **Do not** reject papers because the **novel idea is simple**. "Simple" does not equate with "trivial" – some of the best ideas are simple. Assess their novelty.
- **Do not** reject papers because you can **imagine another (yet nonexistent) technique** that could have solved the problem.

Review — *Novelty*

Papers should both cite **relevant related work** and explicitly show how it relates to the paper's questions. After reading the paper, you should feel more informed about the related literature and how that literature is related to the paper's contributions.

- Identify related work the authors have missed and include it in your review.
- Missing a paper that is relevant, but would not dramatically change the paper, is not sufficient grounds for rejecting a paper. Such citations can be added upon reviewers' request prior to publication.
- Focus on missing related work that would significantly alter research questions, analysis, or interpretation of results.
- Do not dismiss a paper because it is “not novel” **without pointing out relevant literature**

Review — *Novelty*

Published work that is **not peer-reviewed** ("grey literature" including arXiv preprints, theses, blog posts, or tech reports) cannot be taken into account for judging novelty.

- **Do not** downgrade or reject papers because there is some non peer-reviewed paper the authors do not adequately cite or compare against.
- **Do** ask authors to **point to these works**, as they would be informative for readers (and for tracing back the history of a concept).
- However, if the published technique already is in **widespread use** (e.g. as a tool, method, or product), the submission must be novel with respect to this state of practice.

Review — *Novelty*

Because related work should be sufficiently but not completely covered:

- **Don't** critique work for missing 1 or 2 peripherally related papers. Just note them, helping the authors to broaden their citations.
- **Don't** critique authors for not citing your own work, unless it really is objectively highly relevant.
- **Don't** critique work for *where* in a paper they address related work. Sometimes a dedicated section is appropriate, sometimes it is not. Sometimes related work is better addressed at the end of a paper, not at the beginning.
- **Do** critique work for simply listing papers ("[1, 2, 3, 4, 5]") without meaningfully addressing their relevance to the paper's questions or innovations.

Review — *Verifiability and Transparency*

The extent to which the paper includes sufficient information to understand how an innovation works; to understand how data was obtained, analyzed, and interpreted; and how the paper supports independent verification or replication of the paper's claimed contributions.

This aims to check whether the described research is *recoverable*. You should be able to understand most of the key details about how the authors conducted their work, how they made their invention possible, or how the research findings were inferred from the collected evidence. This is key for replication and meta-analysis of studies underpinned by the positivist or post-positivist approaches. For interpretivist works, it is also key for evaluating qualitative work. Focus your critiques on omissions of research process or innovation details that would significantly alter your judgement of the paper's validity, or the *credibility* of results for research that uses qualitative methods.

Review — *Verifiability and Transparency*

Because there are always more details a paper can describe about its methods:

- **Welcome tools and data** that are available and usable at reviewing time.
- If the **paper contains sufficient detail** then data is secondary
- Welcome work whose authors have made extra efforts to make it **replicable and verifiable**.
- **Avoid** penalizing a paper for not describing *every* detail, recognizing that some details are more important than others and space is limited.
- **Avoid** asking authors to write substantially new method details *unless* there is space to add those details within the length restrictions.

Review — *Open Science Policies*

With ICSE 2022, authors are expected to *share data or justify if they do not*.

- **Welcome** significant tools and data sets.
- **Welcome** research with industry and users. Be aware of the respective challenges, and value the efforts made by authors to overcome these.
- **Avoid** penalizing papers only because their data is not available.
- **Respect** reasons for not sharing data such as confidentiality or privacy. Assessing credibility in qualitative research is facilitated by transparency into researcher's decisions and procedures for data collections and analysis.
- **Do** consult provided data sets and replication packages if you have questions. Authors go to great lengths preparing these, so show them you cared.

Review — *Tools*

A **tool** can be interpreted as the embodiment of all experimental data.

- We **welcome** publicly available and usable tools that can be applied by researchers and/or practitioners.
- However, **sharing a tool is secondary** with respect to sharing data – data is far easier to archive, inspect, and process.
- **Do not** penalize a paper for not making its tool publicly available. But keep encouraging authors to do so.
- **Do not** penalize a paper if you could not use its tool. But do ask authors the questions you wanted to answer using the tool, and detail your troubles.

Artifacts Check (*New!*)

This year, we will ask one reviewer per paper to perform a lightweight check on the enclosed/online artifacts (if a paper has artifacts)

Note! This is a lightweight check (not as deep as the one done by the artifact track) and aims at determining whether a paper falls in one of the following categories:

1. The artifacts are unavailable while the authors declared their availability
2. The artifacts do not contain what is declared in the submission form and in the paper
3. The artifacts partially contain what is declared in the submission form and in the paper
4. The artifacts are in line with what is declared in the submission form and in the paper
5. Does not apply, the authors explained why artifacts were not provided

and add a short comment if necessary

Other (non-designated) reviewers are welcome to do their own check if they wish

Review — *Presentation*

The extent to which the paper's quality of writing meets the high standards of ICSE, including clear descriptions, as well as adequate use of the English language, absence of major ambiguity, clearly readable figures and tables, and adherence to the formatting instructions provided below.

Papers also need to be clear and concise, and comprehensible to diverse audiences.

We recognize that not all authors are fluent English writers. But if the language issues make the paper not comprehensible, it is not yet ready for publication.

Review — *Presentation*

Because submissions should be clear *enough*:

- **We welcome honest discussions** on the assumptions, limitations, and novelty of an approach
- **We welcome detailed explanations** that will allow others to build on the given work

Review — *Presentation*

Because submissions should be clear *enough*:

- **Avoid** penalizing a paper for having easily fixable spelling and grammar issues.
- **Avoid** penalizing a sufficiently clear paper because it could be clearer. All writing can be clearer in some way!
- **Avoid** penalizing a paper for not using all of the available page count. It is okay if a paper is short but significant!
- **Avoid** asking for more detail unless you are certain there is space; if there is not enough space, provide concrete suggestions for what to cut.
- **Avoid** penalizing a paper for not following a particular paper structure or order of sections.

Review – *Recommendation*

"Based on the criteria above, this paper should be published at ICSE."

Based on all of the previous criteria, decide how strongly you believe the paper should be accepted or rejected, assuming authors make any modest, straightforward minor revisions you and other reviewers request before publication.

- Papers that meet all of the criteria should be *strongly accepted* (though this does not imply that the paper is perfect).
- Papers that fail to meet most of the criteria should be *strongly rejected*.

Review – *Scores*

For scoring, we follow the common "Identify the Champion" scores:

- 5. **Strong accept, award quality** - this paper should be accepted and it is a good candidate for a distinguished paper award
- 4. **Accept** – this paper should be accepted
- 3. **Weak accept** – this paper may be accepted, but I will not fight for it
- 2. **Weak reject** – this paper may be rejected, but I will not fight against it
- 1. **Reject** – this paper should be rejected

To get the paper accepted, **at least one reviewer will have to champion the paper.** An explicit "Accept" score is not required; it can also emerge in the discussion.

Scores are revealed to the authors during the author response period, so they can focus their response appropriately.

Review – *Scores*

Because each paper should be judged on its own:

- **Don't** recommend accepting a paper because it was the best in your set. It is possible that none of your papers sufficiently meet the criteria.
- **Don't** recommend rejecting a paper because it falls under some assumed quota.

There is no set quota: Your job is not to “find the best paper(s) in your pile”. The PC chairs will devise a program for *however* many papers sufficiently meet the criteria, whether that is 50 or 300. Your job is to find **all** submissions worthy of archiving and sharing for the community to build upon – which includes none or all of your papers.

Review – *Expertise*

Additionally, we ask for your **expertise** on the paper's topic:

- **X.** I am an **expert** on this topic (know the related work well)
- **Y.** I am **knowledgeable** on this topic.
- **Z.** I am an **informed outsider**.

Note that X/Y/Z denotes your *expertise*, not your *confidence* in your judgment. If you lack confidence, *state this in a comment for your co-reviewers*, pointing out possible reasons. Your co-reviewers may clarify things for you – or chime in.

Your X/Y/Z expertise is not sent out to authors.

Review – *Expertise*

It is not necessary that all reviewers be experts – it can be useful to have some non-expert reviews to evaluate a paper's accessibility to a general audience.

If *all* reviewers are non-experts, though, chances of finding a champion are low. Area chairs and PC chairs will assess the case and may assign extra reviewers.

In case of **interdisciplinary research**, it is common to have reviewers who do not cover all disciplines. Be sure to discuss with co-reviewers as soon as possible and let us know if additional expertise is needed.

Review — *Extras*

ICSE has a number of rules in place regarding

- Open Science Policies (Sharing Data)
- ACM Publication Policy on Research Involving Human Participants and Subjects
- Double-Anonymous Submissions
- Plagiarism
- Awards

Let's discuss each of these in detail.

Review - ACM Guidelines Human Participants and Subjects

<https://www.acm.org/publications/policies/research-involving-human-participants-and-subjects> (effective since August 15, 2021)

All authors conducting research involving human participants and subjects must meet appropriate ethical and legal standards guiding such research.

Reviewers must flag papers in case they believe such standards are not met. Please use the **#humanSubjectsIssue** tag for this purpose

Review - ACM Guidelines Human Participants and Subjects

Criteria to be checked include, but are not limited to:

- minimization of potential harms, making sure any risks are justified by potential benefits
- protection for the privacy and right to self-determination of participants and subjects
- adhering to relevant institutional, local, national, and international regulations
- adhering to the principle of informed consent
- adhering to the principle of justice
- adherence with all other applicable ACM policies

Review — *Double-Anonymous Submissions*

ICSE 2023 uses double-anonymous (formerly known as double-blind) submissions

- **Do** focus on paper content rather than authors.
- **Do** assume that third-party work described by the authors comes from third parties.
- **Do not** actively attempt to guess author identities (e.g., by googling paper titles or key phrases).
- **Do not** reveal your identity as a reviewer. Do not "sign" reviews.
- When looking up links, **cloak your identity**: use "private browsing" and/or a VPN
- **Do not** discuss papers outside of the HotCRP channel devoted to the paper.
- **Do** report potential violations to the PC chairs.

Review — *Plagiarism*

If after reading a submission, you suspect that it has in some way plagiarized from some other source, do the following:

- Read the ACM guidelines on [Plagiarism, Misrepresentation, and Falsification](#)
- If you think there is a potential issue, **write the PC chairs to escalate the potential violation**, and share any information you have about the case.
- The chairs will investigate and decide as necessary prior to the acceptance notification deadline.

Review — *Awards*

Reviewers should recognize papers that **best illustrate the highest standards of Software Engineering research**. This includes papers that

- meet **all of the review criteria** in exemplary ways (e.g., research that was particularly well designed, executed, and communicated), or
- meet **specific review criteria** in exemplary ways (e.g., discoveries are particularly significant or sound).

To nominate a paper for a distinguished paper award, reviewers can give a paper an "**Strong accept, award quality**" score (one notch above "Accept").

Up to 10% of accepted papers can get a distinguished paper award.

Review Balance

You have six weeks to complete your initial set of reviews.

We recommend reviewing around **two papers per week** to avoid fatigue.

Add reminders to your to do list, one for each paper. Tick each off when you're done. Spread your reviews out to be a happier, more constructive evaluator :-)

The earlier you start, the better. **Let us know *immediately* if you see any difficulties.**

Review – *You are in Charge*

We selected **you** because of **your** expertise and **your** ability to write **high-quality reviews**.

- Write your review **personally** and in **your own words**.
- Identify the **decisive** factors that lead towards your score.
- Identify **clarification questions for the authors** that help in making decisions.

You can get **assistance** by PhD students and Postdocs in your group (assuming no conflicts) – and **merge** their reviews into yours. Still, you remain responsible.

Review Form – *Scores*

Overall merit *

☞ Present on reviews matching "round:Reviews OR round:Reviews-artifacts-check"

Please rate the overall quality of the manuscript. If you use (1) Reject or (4) Accept, then you are ready to argue against or in favor. Use (5) Strong accept if you want to nominate this as a distinguished paper

- 1.** Reject
- 2.** Weak reject
- 3.** Weak accept
- 4.** Accept
- 5.** Strong accept (award quality)

Reviewer expertise *

☞ Present on reviews matching "round:Reviews OR round:Reviews-artifacts-check"

- X.** I am an expert on this topic (know the related work well)
- Y.** I am knowledgeable on this topic
- Z.** I am an informed outsider

Review Form – *Artifact Assessment* (for the designated reviewer only)

Artifacts assessment *

➔ [Present on Reviews-artifacts-check reviews](#)

You have been designated as artifact checker for this paper. Please access the artifacts (if available) and briefly provide your assessment.

You can complement the information provided here with further comments under **Comments for authors** when discussing the paper along the **Verifiability and Transparency** criterion.

- 1.** The artifacts are unavailable while the authors declared their availability
- 2.** The artifacts do not contain what is declared in the submission form and in the paper
- 3.** The artifacts partially contain what is declared in the submission form and in the paper
- 4.** The artifacts are in line with what is declared in the submission form and in the paper
- 5.** Does not apply, the authors explained why artifacts were not provided

Review Form – *Summary*

Paper summary

🕒 Present on reviews matching "round:Reviews OR round:Reviews-artifacts-check"

Please briefly summarize the paper in your own words, explaining to the authors how you understood the paper.

Text field

Strengths

🕒 Present on reviews matching "round:Reviews OR round:Reviews-artifacts-check"

Please provide a short bullet-point list of the paper's key strengths.

Text field

Weaknesses

🕒 Present on reviews matching "round:Reviews OR round:Reviews-artifacts-check"

Please provide a short bullet-point list of the paper's key weaknesses.

Text field

Review Form – *Comments for Authors*

Comments for authors

📌 Present on reviews matching “round:Reviews OR round:Reviews-artifacts-check”

Please provide constructive feedback to the authors for justifying your score. Please consider the following five criteria, as listed in the [ICSE 2023 Call for Papers](#) and detailed in the [ICSE 2023 Reviewer Guidelines](#), notably Section 6 "Reviewing".

- **Soundness:** The extent to which the paper’s contributions and/or innovations address its research questions and are supported by rigorous application of appropriate research methods.
- **Significance:** The extent to which the paper’s contributions can impact the field of software engineering, and under which assumptions (if any)
- **Novelty:** The extent to which the contributions are sufficiently original with respect to the state-of-the-art
- **Verifiability and Transparency:** The extent to which the paper includes sufficient information to understand how an innovation works; to understand how data was obtained, analyzed, and interpreted; and how the paper supports independent verification or replication of the paper’s claimed contributions.
- **Presentation:** The extent to which the paper’s quality of writing meets the high standards of ICSE, including clear descriptions, as well as adequate use of the English language, absence of major ambiguity, clearly readable figures and tables, and adherence to the formatting instructions.

Feel free to structure your review along these criteria.

Text field

Review Form – *Questions and Comments*

Question for authors

📌 Present on reviews matching "round:Reviews OR round:Reviews-artifacts-check"

Please provide specific questions that *could affect your accept/reject decision or help support the paper*. If you have no such questions, please leave the form blank. Please number your questions: 1., 2., 3., ... starting with the most critical questions. Remember that the authors have limited space and must respond to all reviewers.

Text field

Comments on authors' response

📌 Present on reviews matching "round:Reviews OR round:Reviews-artifacts-check"

After the authors provide their response, please provide your comments on the authors' response, e.g.,

- which questions have been satisfactorily answered by the authors; and
- which questions have not been satisfactorily answered by the authors (and why not)

Text field

Comments for PC (hidden from authors)

Please use this field to convey any message to other reviewers or chairs, if you do not want it to be seen by the authors.

If you update the review, please state here what changes you made.

Text field

Review Form – *Meta-Review*

Metareview Recommendation *

👉 Present on Metareviews reviews

- 1. Reject
- 2. Undecided
- 3. Accept with Gatekeeping
- 4. Accept

Metareview

👉 Present on Metareviews reviews

Click on "Main" (top left) to see the reviewers and reviews for this paper. The meta-review should:

- summarize the **key strengths and weaknesses** of the paper, in light of the review criteria
- explain **how these led to the decision**
- explain **how the authors' response was taken into account**
- briefly **congratulate** with the authors of accepted papers, or **give some words of encouragement** for the authors of rejected papers

Text field

To be written by discussion leaders as comments and uploaded by area chairs, see [instructions coming later](#)

Review Form – *Offline Version*

This is a generic form. If you download offline review forms, they will come with paper numbers and titles prefilled.

```
icse2023-review.txt
==== ICSE 2023 Review Form
==== DO NOT CHANGE LINES THAT START WITH "====" OR "====".
==== For further guidance, or to upload this file when you are done, go to:
==== https://icse2023.hotcrp.com/offline

==== =====
==== Begin Review
==== Reviewer: Massimiliano (Max) Di Penta <dipenta@unisannio.it>

==== Paper Number

(Enter paper number here)

==== Review Readiness
==== Enter "Ready" if the review is ready for others to see:

Ready

==== Overall merit
==== (present on reviews matching `round:Reviews OR round:Reviews-artifacts-check`)
==== Please rate the overall quality of the manuscript. If you use (1)
==== Reject or (4) Accept, then you are ready to argue against or in
==== favor. Use (5) Strong accept if you want to nominate this as a
==== distinguished paper
==== Choices:
==== 1. Reject
==== 2. Weak reject
==== 3. Weak accept
==== 4. Accept
==== 5. Strong accept (award quality)
```

7. Authors' Response

November 14–November 19

November 29-30 (only where needed)

Authors' Response – *Preparation*

Paper authors are invited to comment on your reviews and answer your questions in an **authors' response**.

In your review, **guide authors towards the crucial points** by

- Providing a **summary** that states how you see the paper
- Identifying central **strengths and weaknesses** of the work as you see them
- Stating **important questions** that may change your stance

Number your questions.

Put the **most important questions first**, such that authors can prioritize.

If there are no questions that could change your stance on the paper, leave the form field blank. (You can still ask those questions as part of your "main" review)

However, **do** ask questions whose answers may help support the paper.

Authors' Response – *Preparation (cont'd)*

After seeing the other reviews,

- agree with co-reviewers on the **crucial points** that help towards a decision and
- ensure your questions to authors capture these and revise if necessary.

Authors' Response

In their response, authors will focus on

1. the questions you asked
2. weaknesses as you see them, as well as
3. factual errors.

Authors' responses are **not limited in length**. However, they are encouraged to start with the most important issues, as you need not read beyond the **first 750 words**.

Authors' Response – *Reviewer Reaction*

Authors spend considerable time on their responses, and it is crucial that their arguments be taken into account:

- **Reassess** your views on strengths (and weaknesses) of the paper.
- **Discuss** with your fellow co-reviewers
- **Update your reviews** (and possibly **scores**) in light of the response.
The review form has a **special field** for addressing the authors' response.
- Please acknowledge you read their response by adding text to that field.
- Decision leads **tag the paper with #reacted-to-response** when all reviewers have updated their reviews and left a comment
- While you do not *have* to read more than the first 750 words, you certainly can!

Second Response Period

This year ICSE introduces a second response period (November 28-29) for exceptional cases that fall in the following categories:

- (we hope this won't happen) we could not ensure 3 reviews before November 14
- Additional expertise was requested, but the review was entered after the first response period was opened
- Further, important questions emerged during the discussion phase

8. Discussion

November 17–November 29

Focus Days: November 21-22

Second Focus Days: Dec 1-2

Discussion

After all reviews and the authors' response are in, the **discussion lead** (one of the three reviewers) asks the reviewers to begin a discussion about any disagreements.

All reviewers should:

- **Read all the reviews** of all papers assigned (and re-read your reviews).
- **Read the authors' response** and **reassess** strengths (and weaknesses).
- **Engage** in a **discussion** about sources of disagreement.
- **Use the review criteria** to guide your discussions.
- Be **polite, friendly, and constructive** at all times.
- Be **responsive** and react as soon as new information comes in.
- Remain **open** to other reviewers shifting your judgements.
- **Update your review** to reflect your new views if your judgement does shift

Discussion - Discussion Leads in HotCRP

ICSE 2023

Search

(All)

Search

(All)

in

Submitted







Search

Search

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If you are the discussion lead, you will notice an “L” icon next to a review. Discussion leads are assigned when all reviews are in.

Discussion – *Be responsive*

You will be notified as soon as new information about your paper comes in – another review, a new discussion item, the authors' response.

It is important that you **react to these**, and as **soon as possible**. The earlier we can finalize the decision for a paper, the better.

Remember we have **strict deadlines**. Do not let your colleagues wait for days when all that is needed is some short statement from your side.

First Discussion Focus Days

November 17-18:

The goal is to make as many decisions during this period as possible for papers not on the borderline (clear accept and reject).

Please work towards finalizing decisions of those papers during these focus days.

Lead discussions where you are assigned as discussion lead, guide the discussions towards consensus, propose a recommendation for acceptance along with a discussion summary in a "meta-review" in the comment section.

Please make sure to allocate sufficient time for the online discussion during those days.

Discussion – *Reasons for Acceptance*

No paper is perfect. There will always be room for improvement in any of the review criteria – and pointing these out will help the authors make a better paper.

However, imperfection is no reason for rejection. If you can trust the authors to fix things in the final version, that's great. If you don't find a paper exciting, but someone else does, that's great, too.

- Discuss weaknesses **and strengths**
- **Focus on why the paper should be accepted**, rather than rejected.

Area Chairs will help ensuring that all papers in their area will be held to similar standards.

Discussion – *Be willing to move*

Discussing a paper is **not about who wins or who is right**. It is about how, in the light of all information, a group of reviewers can find the best decision on a paper.

All reviewers (and the authors!) have their unique perspective and competence. It is perfectly normal that they may have seen things you haven't, just as you may have seen things they haven't.

The important thing is to accept that **the group will see more than the individual**. Therefore, you can always (and are encouraged to!) **shift your stance** in light of the extra knowledge.

Second Focus Days: Undecided Papers and Papers with Second Rebuttal

November 30 - December 1

Be available for most of your working day to participate in intensive PC discussions and/or scheduled synchronous meetings as needed for undecided papers and for papers that had a second rebuttal.

The assigned discussion lead for a paper guides the discussions towards consensus, and proposes a recommendation for acceptance along with a discussion summary in a "meta-review".

9. Final Decisions

December 1–5 (or whenever consensus is reached)

Decisions

As soon as consensus is reached, the **discussion lead** uses the reviews, the authors' response, and the discussion to write a **meta-review** and **recommendation** (accept or reject).

The Area Chair will follow discussions and check the meta-reviews to ensure papers are being held to the same standards.

Meta-Reviews

As discussion lead, your meta-review should

- summarize the **key strengths and weaknesses** of the paper, in light of the review criteria
- explain how these **led to the decision**
- explain how the **authors' response** was taken into account
- briefly **congratulate** with the authors of accepted papers, or **give some words of encouragement** for the authors of rejected papers

The summary and explanation should help the authors in revising their work.

A **generic meta-review** ("After long discussion, the reviewers decided that the paper is not up to ICSE standards, and therefore rejected the paper") is not sufficient.

HotCRP - *Entering Meta-Reviews*

As discussion lead, **draft your meta-review as a comment** and invite your co-reviewers to comment on it. Include your recommendation **IN THE FIRST LINE.**

When everybody has agreed, tag the paper with **#meta-review-ready** so the Area Chair can pick it up.

New Comment Markdown styling and LaTeX math supported · [Preview](#)



ACCEPT

This is a great paper, the reviewers agreed on its strengths such as:

- it is sound
- it is significant, etc.

This led to the paper being accepted. Recommendations for camera-ready copy include... |

Visibility Hidden from authors ▼

Leave the "visibility" field as "Hidden from authors" (the default)

HotCRP - *Final Meta-Reviews*

The Area Chair will pick up the draft and use it to compose the **final meta-review** including a **recommendation**.

The meta-review becomes the fourth review, and as such will eventually be sent to the authors.

Metareview Recommendation *

- 1.** Reject
- 2.** Undecided
- 3.** Accept with Gatekeeping
- 4.** Accept

Metareview

Click on "Main" (top left) to see the reviewers and reviews for this paper. The meta-review should:

- summarize the **key strengths and weaknesses** of the paper, in light of the review criteria
- explain **how these led to the decision**
- explain **how the authors' response was taken into account**
- briefly **congratulate** with the authors of accepted papers, or **give some words of encouragement** for the authors of rejected papers

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Comments for PC (hidden from authors)

Please use this field to convey any message to other reviewers or chairs, if you do not want it to be seen by the authors.

If you update the review, please state here what changes you made.

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Conditional Acceptance

In general, we **trust the authors to follow all recommendations** made by reviewers – thus, clear recommendations will pay off in the quality of the camera-ready copy.

In cases where reviewers feel **changes *must* be made** before the paper is published, Area Chairs or PC Chairs may suggest **conditional acceptance**. Examples of such changes include overly general claims or titles, or wrong facts.

To have a paper conditionally accepted, the meta-review must provide a list of **specific syntactic changes** that do not alter the paper's main message. These changes should be so specific that they can be checked by anyone.

Authors will have a short period of time to do these changes; the updated paper will be checked by a reviewer before final acceptance.

Accept, Conditional Accept, or Reject?

Minor changes that, if not done, wouldn't make the paper wrong or embarrassing, or changes for which in any case we can trust the authors → **accept**

Easy to verify changes, whose outcome is clear, but that must be properly performed, and in the absence of which the paper may result to be misleading or even embarrassing → **gatekeeping**

Major revisions (include substantial rewriting of the text), changes that require new computations or experiments → **reject**

Review Quality and Consistency

The PC chairs and Area Chairs will review all meta-reviews to ensure that reviews are **constructive and consistent**, and request discussion leads to revise their meta-reviews as necessary.

The PC chairs will make the final decision based on the recommendation from the Area Chair.

Excellent Reviews

Excellent reviews are:

- **Constructive**, explicitly identifying the merits of the work, as well as feasible ways of addressing any of its weaknesses.
- **Insightful**, demonstrating expertise on the topic and methods in a work.
- **Organized**, helping the authors clearly understand the reviewer's opinions of strengths and weaknesses of the work.
- **Impartial**, demonstrating a commitment to the reviewing criteria of the conference, and not personal interests, speculation, or bias.

Outstanding reviewers will be recognized with an *ICSE Distinguished Reviewer Award* from the program chairs after the PC's work is complete.

As a reviewer, you can anonymously tag others' reviews positively, as well as suggest improvements

Decisions Announced

After all meta-reviews are in and all decisions taken, the PC chairs will notify all authors of the decisions about their papers.

Authors of papers that are **accepted** will be encouraged to make recommended changes.

Papers that are **conditionally accepted** will be checked by a reviewer before final acceptance.

All authors – and all reviewers! – will be invited to join us at ICSE in Melbourne :-)

Thank You!

Looking forward to a great ICSE 2023 – *Max and Lori*

