



NIER - New Ideas and Emerging Results

ICSE 2022

[About](#)[Program](#)[Accepted Papers](#)[Idea-Matchmaking Abstracts](#)[Call for Papers](#)

Call for Papers

The New Ideas and Emerging Results (NIER) track at ICSE provides a vibrant forum for forward-looking, innovative research in software engineering. Our aim is to accelerate the exposure of the software engineering community to early yet potentially ground-breaking research results, and to techniques and perspectives that challenge the status quo in the discipline. To broadly capture this goal, NIER 2022 will publish the following types of papers.

- **Forward-looking ideas:** exciting new directions or techniques that may have yet to be supported by solid experimental results, but are nonetheless supported by strong and well-argued scientific intuitions as well as concrete plans going forward.
- **Thought-provoking reflections:** bold and unexpected results and reflections that can help us look at current research directions under a new light, calling for new directions for future research.

(New to this year!) Idea-Matchmaking - Optional

New to this year, a paper can optionally be developed through an Idea-Matchmaking process aimed to encourage collaboration among researchers. The process is described below:

- **Ideas Collection Phase (Due May 14 2021):** Authors of potential papers should submit a title, an abstract outlining the idea, a set of keywords. Authors can optionally include an expertise statement indicating whether they are looking for a specific type of expertise to develop their idea. Abstracts should not exceed 300 words and do not have to discuss critical details of the idea. We recommend the authors to clarify in the abstract the reason(s) why they are looking for a collaboration. The expertise statement should not exceed 100 words. Examples of title, abstract and expertise statement can be found here (<https://docs.google.com/document/d/1EKshpjNhlhd-CG2e4WbDBv434HmQjG9tsvMdsPZXz5l/edit>). Submissions can be made following this link (https://docs.google.com/forms/d/e/1FAIpQLSf-GeRWUByEJidp-dulJPY1O4Oq8EgLI8hXlrBcm71SwGm04g/viewform?usp=sf_link). If you are unable to access the link, please contact the track chairs.

The NIER Co-Chairs will assess the abstracts and may desk reject those that are out of scope. Accepted abstracts will be published on the ICSE NIER 2022 website without including the authors' name.

- **Ideas Bidding Phase (Due July 2 2021):** Potential collaborators should bid for one of the proposed abstract by submitting a document clearly highlighting:
 - Contact information: name, affiliation, contact details;
 - Expertise: collaborator(s) should demonstrate (providing evidence) to have expertise on the topics of the idea they are bidding for.

- **Proposal:** collaborator(s) should describe how they intend to contribute to the idea, ideally including references to previous research. The document submitted during the idea bidding phase should not exceed 1000 words.

Submissions can be made following this link

(https://docs.google.com/forms/d/e/1FAIpQLSdG8sfpV0r4wYxDHAoE06DMKbUcWugf5JpOHgiz5qGnAUBdrw/viewform?usp=sf_link). If you are unable to access the link, please contact the track chairs.

- **Ideas Matchmaking Phase (Due July 16 2021):** Authors of potential papers should make contact with the potential collaborator(s) who bid for their abstract(s). Authors should inform the NIER Co-Chairs about whether they identified one or more suitable collaborators.
- **Paper Preparation Phase:** During this phase, the authors and the matched collaborators should work together to prepare their NIER paper.

Papers developed following the Idea-Matchmaking process can be of any of the two types (forward-looking ideas or thought provoking reflections), should follow the NIER submission and formatting instructions, and will be evaluated using the same criteria adopted for papers that did not avail the matchmaking process.

Note that potential authors do not have to follow the Idea-Matchmaking process to prepare their paper and can still submit their manuscript following the formatting and submission instructions below.

Scope of NIER Track

A NIER track paper is not just a scaled-down version of a ICSE full research track paper. The NIER track is reserved for first class, top quality technical contributions. Therefore, a NIER submission is neither an ICSE full research track submission with weaker or no evaluation, nor an op-ed piece advertising existing and already published results. Authors of such submissions should instead consider submitting to either the main track or one of the many satellite events of ICSE. We require all submissions to the NIER track to include a section titled “Future Plans” where the authors outline the work they plan on doing to turn their new idea and emerging results into a full-length paper in the future.

Evaluation Criteria

Each submission will be reviewed and evaluated in terms of the following quality criteria:

- **Value:** whether the problem is worth exploring;
- **Impact:** the potential for disruption of current practice;
- **Soundness:** the validity of the rationale and authors’ plans for future work;
- **Quality:** the overall quality of the paper’s writing

Formatting and Submission

All submissions must conform to the ICSE 2022 formatting and submission instructions available at <https://www.acm.org/publications/proceedings-template> (<https://www.acm.org/publications/proceedings-template>) for both LaTeX and Word users. LaTeX users must use the provided `acmart.cls` and `ACM-Reference-Format.bst` without modification, enable the conference format in the preamble of the document (i.e., `\documentclass[sigconf, review]{acmart}`), and use the ACM reference format for the bibliography (i.e., `\bibliographystyle{ACM-Reference-Format}`). The review option adds line numbers, thereby allowing referees to refer to specific lines in their comments.

All NIER submissions must not exceed 4 pages for the main text, inclusive of all figures, tables, appendices, etc. An extra page is allowed for references. 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).

Submissions may be made through HotCrp at this link (<https://icse2022-nier.hotcrp.com/paper/new>). For submissions to the Idea-Matchmaking, see above.

By submitting to this track, authors acknowledge that they are aware of and agree to be bound by the ACM Policy and Procedures on Plagiarism (<https://www.acm.org/publications/policies/plagiarism>) and the IEEE Plagiarism FAQ (<https://www.ieee.org/publications/rights/plagiarism/plagiarism-faq.html>). In particular, papers submitted to ICSE 2022 must not have been published elsewhere and must not be under review or submitted for review elsewhere whilst under consideration for ICSE 2022. Contravention of this concurrent submission policy will be deemed a serious breach of scientific ethics, and appropriate action will be taken in all such cases. To check for double submission and plagiarism issues, the chairs reserve the right to (1) share the list of submissions with the PC Chairs of other conferences with overlapping review periods and (2) use external plagiarism detection software, under contract to the ACM or IEEE, to detect violations of these policies. By submitting to this track, authors acknowledge that they conform to the authorship policy of the ACM (<https://www.acm.org/publications/policy-on-authorship>), and the authorship policy of the IEEE (<https://journals.ieeeauthorcenter.ieee.org/become-an-ieee-journal-author/publishing-ethics/definition-of-authorship/>).

Important Dates

- **NIER Submissions Deadline:** 15 October 2021 - Submissions close at 23:59 AoE (Anywhere on Earth, UTC-12)
- **NIER Acceptance Notification:** 7 January 2022
- **NIER Camera Ready:** 11 February 2022

Double-Blind Submission Guidelines


The ICSE 2022 NIER track will adopt a double-blind review process. No submitted paper may reveal its authors' identities. The authors must make every effort to honor the double-blind review process; reviewers will be asked to honor the double-blind review process as much as possible. Any author having further questions on double-blind reviewing is encouraged to contact the track's program co-chairs by e-mail. Any submission that does not comply with the double-blind review process will be desk-rejected. Further advice, guidance and explanation about the double-blind review process can be found in the Q&A page.

Conference Attendance Expectation

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

Presentation Format

Each paper will be allocated a presentation slot during the conference program. At the end of each session, there will be time for discussion. Before the conference, we will assign one challenger to each accepted submission who will prepare discussion questions in advance, with the goal of increasing the value of conversations at the conference. Challengers will be selected among members of the ICSE community by the PC Co-Chairs.

Important Dates	 AoE (UTC-12h)
Fri 11 Feb 2022 Camera Ready	

Fri 7 Jan 2022

Acceptance Notification

Fri 15 Oct 2021

Submissions Deadline

Fri 16 Jul 2021

Ideas Matchmaking [Optional]

Fri 2 Jul 2021

Ideas Bidding [Optional]

Fri 14 May 2021

Ideas Collection [Optional]

Program Committee (<https://conf.researchr.org/committee/icse-2022/icse-2022-nier---new-ideas-and-emerging-results-program-committee>)

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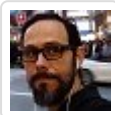
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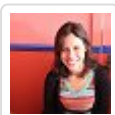
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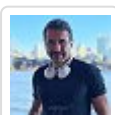
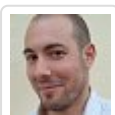
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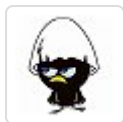
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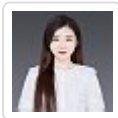
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