

Research Category Abstract Review Criteria (2024)

The research category is for scholarly papers that outline contributions to research in the area of engineering and/or computing education. Papers should be well situated in e relevant literature, outline the research approach (e.g., theoretical perspective, data collection methods, and analysis approaches), and describe the study findings. Additional examples and descriptions of Scholarship of Discovery are available here: <https://iee-edusociety.org/toe-scholarship-discovery>

Abstracts: Research Abstracts should be 300-500 words and should clearly present the paper’s research contribution and its relevance to engineering and/or computing education. Each abstract must state the specific research contribution of the paper. Contributions may be made in various forms, and should include the research questions addressed, methods used, results found, and a description of how the results are built on prior research. Abstracts must provide a summary of the research contribution/expected results and a brief statement of the implications for educational practice with a focus on action.

The abstract needs to include at least three keywords selected from the engineering education taxonomy (<http://taxonomy.engin.umich.edu/taxonomy/>). **In addition, authors should specify if the paper will be in the “Full” or “WIP” paper track and define one topic area on the paper submission platform.**

Abstract Review Rubric:

Category	5	3	1
Theoretical Framework: Rate how this submission uses existing theory to support the work	Described specifically	Theoretical framework or contribution to research is unclear	Not described
Research approaches: Rate how this submission describes the research approaches used (e.g., research questions, data collection, and data analysis) and their appropriateness to meet the research goals	Described specially and research approaches are well justified and aligned with the research goals	Description lacks important details, or the approaches are not well justified or aligned with the research goals	Major gaps in description and approaches are not justified
Research Contribution: Rate how this submission contributes to engineering/computing education	Described specifically supported well by proposed data	Research contribution is modest or not fully supported by suggested data	Not described

Relevance: Rate how the submission is relevant to engineering/computing education	Highly relevant to engineering/computing education	Appropriate and reasonably focused	Not relevant
Category accuracy: Rate how well the submission meets the Research category	Paper appears to be in the proper category	Paper could be in either category	Paper appears to be in the wrong category