



Rubric for Research Abstracts

	5	3	1
Theoretical Framework:	Described specifically	Theoretical frameworks' appropriateness or contribution to research is unclear	Not described
Research Contribution:	Described specifically	Research contribution is modest or not fully supported by data	Not described
Description:	Context, motivations, accomplishments specific	Context, motivations, or accomplishments are incompletely described	Context, motivations, accomplishments not described
Relevance:	Clear and specific	Described mostly in general, but applicable terms	Not described
Track accuracy:	Appears to be strong full-paper submission	Could be either full or SP	Appears to be SP submission

Contribution:

Each abstract must briefly state the specific research contribution of the paper. Contributions may be made in various forms, but they should answer questions such as the following: What are the research questions that were addressed? What results have been found? How do the results build on prior research?

Description:

In this section, the authors describe the context for the research, motivations for the research, prior research related to this research, a brief synopsis of the methodology, what results have been obtained, and what remains to be done. Ideally, the authors would highlight the research findings and methods, include a clear statement of implications for educational practice, the certainty to which the research suggests the implication, and the actor(s) and action(s) implied by the findings.

Rubric for Research Submissions

RESEARCH category submissions should position the current research in relation to related and prior work, showing the need for a new or enhanced approach. A high impact paper in this category is one that has a sound theoretical and empirical structure in terms of identification of the problem, design of solution/investigation, methods used during data collection, and an empirically-based final analysis. The criteria for papers in the research category are the following:

- To what extent are the practices described in the paper extensible, innovative or impactful translations of pedagogical research to educational practice?
- Does the work demonstrate knowledge of related work and discuss the relevance of the submission's contribution in the context of the prior literature in the field and other relevant areas?
- What is the breadth of the audience that will be interested in the subject of the paper?
- To what extent is the paper professionally written? All papers must be submitted in English.

Full Papers

Full papers are expected to present some relevant aspects of learning theory and show how these are applied in educational practice. Full papers should demonstrate scholarly quality as evaluated on the strength of the methodology used, the quality/depth of the theoretical foundation, and the quality/depth of the analysis and related discussion. In addition, these should maintain a high level of scholarly quality, reflecting on how this work extends/is distinguished from other work attempted in similar areas.

	5	4	3	2	1
Theoretical Framework: <i>Rate and summarize how this submission describes the theoretical framework relative to its contribution to engineering education.</i>	Complete, accurate and useful description of relevant pedagogical theories	Accurate and worthwhile description of relevant pedagogical theories	Some useful description of relevant pedagogical theories	Incomplete, vague or unsupported description of the relevant pedagogical theories	Very limited description of the relevant pedagogical theories
Research Contribution: <i>Rate and summarize how this submission describes the research contribution relative to engineering education.</i>	Novel and specific description of pedagogical research.	Somewhat novel and/or practical extension of pedagogical research.	A distinct, if somewhat minor addition to pedagogical research.	Limited description of pedagogical research; not very original, extensible or novel.	Incomplete or very limited description of pedagogical research.
Significance: <i>Rate and summarize how this submission is important and makes an important contribution to engineering education.</i>	Very important; of broad and/or significant impact	Of measurable impact and/or significance	Some impact and/or significance	Limited; Some interesting points	Very limited contribution
Relevance: <i>Rate how and explain how the work advances frontiers in education within the context of FIE.</i>	Highly relevant	Clearly appropriate and well focused	Appropriate and reasonably focused	Somewhat relevant, but not focused	Not relevant
Language and Expression: <i>Rate and assess the organization, language</i>	Excellent, exemplary use of language enhancing the quality of the submission	Good, appropriate as is	Reasonable, may need some revision	Poor language, unlikely that it can be sufficiently improved	Very difficult to understand

Research Category Review Criteria



<i>and English expression used in the submission.</i>					
Context: <i>Rate the effectiveness of relating this work in demonstrating a strong knowledge of related and prior work. Rate and include specific suggestions of missing literature.</i>	Excellent knowledge of related work that effectively relates to the contribution	Good, reasonably complete knowledge of related work; related to the contribution	Incomplete, but useful references to related work; reasonably connected to the contribution	Incomplete references and/or connection to the submission's contribution	Little or no reference to related work and/or context is disconnected to the submission's contribution
Scholarly Quality: <i>Rate and summarize how the submission demonstrates appropriate rigor and reflective depth when outlining the novel practice at their and other institutions. A high impact paper in this category is one that develops new and intriguing insights in the context of ongoing research, and/or presents preliminary analysis of empirical data.</i>	The research is methodologically strong, theoretical foundation is good, and analysis/discussion are of high quality	Relevant theory and method are applied with some limitations	The submission uses theory and analysis methods though details are unclear in places	Theoretical underpinnings are weak and there are flaws in argument/analysis	The research appears to be poorly structured and the analysis/argument is hard to interpret
REVIEWER'S CONFIDENCE: <i>Please indicate your level of expertise related to the content of this submission.</i>	Expert	High	Medium	Low	None
OVERALL EVALUATION: <i>This should reflect the combination of the individual section's evaluations.</i>	Accept		Accept with revisions		Reject

Rubric for Research Submissions (short paper)

Short Paper

Short paper (i.e., Work-in-Progress) research category submissions should focus on the methodology used, potential hypotheses, and what remains to be done. Short papers should introduce new ideas and encourage a discourse that can potentially advance the field in some way. The phrase "*Work in Progress*:" must be the first words of the abstract.

	5	4	3	2	1
Theoretical Framework: <i>Rate and summarize how this submission describes the theoretical framework relative to its contribution to engineering education.</i>	Complete, accurate and useful description of relevant pedagogical theories	Accurate and worthwhile description of relevant pedagogical theories	Some useful description of relevant pedagogical theories	Incomplete, vague or unsupported description of the relevant pedagogical theories	Very limited description of the relevant pedagogical theories
Research Contribution: <i>Rate and summarize how this submission describes the research contribution relative to engineering education.</i>	Novel and specific description of pedagogical research.	Somewhat novel and/or practical extension of pedagogical research.	A distinct, if somewhat minor addition to pedagogical research.	Limited description of pedagogical research; not very original, extensible or novel.	Incomplete or very limited description of pedagogical research.
Significance: <i>Rate and summarize how this submission is important and makes an important contribution to engineering education.</i>	Very important; of broad and/or significant impact	Of measurable impact and/or significance	Some impact and/or significance	Limited; Some interesting points	Very limited contribution
Relevance: <i>Rate how and explain how the work advances frontiers in education within the context of FIE.</i>	Highly relevant	Clearly appropriate and well focused	Appropriate and reasonably focused	Somewhat relevant, but not focused	Not relevant
Language and Expression: <i>Rate and assess the organization, language and English expression used in the submission.</i>	Excellent, exemplary use of language enhancing the quality of the submission	Good, appropriate as is	Reasonable, may need some revision	Poor language, unlikely that it can be sufficiently improved	Very difficult to understand
Context: <i>Rate and summarize the effectiveness of relating the contribution of the work to salient related and/or prior work. Include specific suggestions of missing literature.</i>	Excellent knowledge of salient related work that effectively relates to the contribution	Sufficient knowledge of salient related work that relates to the contribution	Incomplete, but useful references to salient related work; reasonably connected to the contribution	Incomplete references to salient literature; weakly connection to the contribution	Inaccurate or no reference to salient work and/or context is disconnected to the submission's contribution
REVIEWER'S CONFIDENCE: <i>Please indicate your level of expertise related to the content of this</i>	Expert	High	Medium	Low	None

Research Category Review Criteria



<i>submission.</i>					
OVERALL EVALUATION: <i>This should reflect the combination of the individual section's evaluations.</i>	Accept		Accept with revisions		Reject