



## Professor Sherry's Systems Research Paper Evaluation Rubric

Criteria	Expert	Proficient	Apprentice	Novice	Other Comments
Introduction	<p>Clearly identifies and discusses research problem statement</p> <p>Motivation and benefits of the research are identified and discussed completely.</p> <p>Solution/insights of the research are well-articulated.</p> <p>The problem and/or solution is novel: no one has published something similar before.</p> <p>"Teaser" results provide a useful summary of "key results"/conclusions of the work.</p>	<p>Incomplete discussion of problem statement</p> <p>Motivation or benefits of the research are identified, but not discussed in depth.</p> <p>Solution is described but insight /"key idea" is under-developed.</p> <p>The problem and solution are an incremental contribution, advancing the state of the art modestly in a well-known area.</p> <p>Some teaser results are provided, but do not provide insight into the key conclusions from the work.</p>	<p>Minimal or implicit discussion of problem statement</p> <p>Motivation or benefits of the research are not clearly identified.</p> <p>Solution/insights are not well articulated</p> <p>The problem and solution effectively reproduce existing results.</p> <p>Teaser results provide little insight into the work and its conclusions.</p>	<p>Problem statement is very implicit, vague, or not discussed.</p> <p>Motivation or benefits of the research are not identified at all.</p> <p>Solution/insights are poorly articulated or are absent altogether</p> <p>The problem and solution are too poorly articulated to evaluate for novelty.</p> <p>No teaser results are provided.</p>	



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Exposition, Design Discussion, Methodology	<p>Appropriate background is provided for the general systems reviewer who does not have expertise in the subfield.</p> <p>Solution is scoped relative to related work: “obvious solutions” and competing publications are dismissed with logic, data, or experimental evidence.</p> <p>Approach / system design is completely described in sufficient detail for the reader to potentially replicate the work.</p> <p>Core “design decisions” in developing the work are discussed and the rationale for each “design choice” motivated with logic, data, or experiments.</p>	<p>Most background for the general systems reviewer, but the reviewer is assumed to know too much about the field or prior work.</p> <p>Solution is scoped relative to related work and “obvious solutions”; arguments to dismiss alternate approaches are sound but could use more data or evidence/data.</p> <p>Approach / system design is described with only minor gaps in exposition.</p> <p>Core “design decisions” in developing the work are mostly discussed and the rationale for each “design choice” is mostly well-motivated.</p>	<p>Some background is provided, but it is insufficient for the general systems reviewer and even a specialist to understand.</p> <p>Solution is scoped relative to related work but there may be minor gaps; arguments to dismiss alternate approaches are unconvincing.</p> <p>Approach / system design is described with a few noticeable gaps in exposition.</p> <p>Some “design decisions” are called out and the rationale for each “design choice”, is present but unconvincing.</p>	<p>Background is haphazard or nonexistent.</p> <p>Related work / “obvious solutions” if provided, have clear gaps in the literature review; it is unclear why alternate approaches would not have worked just as well.</p> <p>Approach / system is described with major missing pieces; it is hard to understand what the approach / system does.</p> <p>“Design decisions” are missing or incomplete, no rationale is provided.</p>	



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Evaluation	<p>Appropriate figures of merit to evaluate the work are identified and motivated.</p> <p>Figures of merit are measured given a comprehensive range of practical parameters / operating conditions.</p> <p>Experimental setup is described sufficiently for a reader to replicate the testbed.</p> <p>Conclusions about the core insight of the paper make sense and draw cleanly from the experimental data.</p> <p>Design decisions are evaluated independently; role of each design choice is backed up with experimental data.</p>	<p>Appropriate figures of merit are identified but not thoroughly motivated.</p> <p>Figures of merit are measured given some range of parameters / operating conditions.</p> <p>Experimental setup is described but missing a few details needed for replication.</p> <p>Conclusions about the core insight of the paper make sense and are mostly supported by experimental data.</p> <p>Some design decisions are evaluated independently with experimental data.</p>	<p>Figures of merit are identified but may be incomplete, motivation is lacking.</p> <p>Figures of merit are measured but parameter space of experiments is limited.</p> <p>Experimental setup is mentioned but important questions are missing for replication.</p> <p>Conclusions about the core insight of the paper are discussed but results are inconclusive.</p> <p>A design decision is discussed but inconclusively evaluated with experiments.</p>	<p>No figures of merit / inappropriate metrics are used to measure system characteristics.</p> <p>Figures of merit are improperly measured or without consideration of system parameters / operating conditions that impact results.</p> <p>Experimental setup is not mentioned or is lacking enough information to judge the validity of the testbed.</p> <p>Conclusions about the core insight of the paper are confusing, misleading, or nonexistent.</p> <p>Role of design decisions in evaluation results is not discussed, confusing, or misleading.</p>	



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Conclusions	<p>Interpretations/ analysis of results are insightful and thoroughly address how they support the key idea / “contribution” of the work.</p> <p>Suggestions for further research in this area are insightful and thoughtful</p>	<p>Interpretations/ analysis of results are sufficient but somewhat lacking in insight; do not as thoroughly address how support the key idea / “contribution” of the work.</p> <p>Suggestions for further research in this area are adequate.</p>	<p>Interpretations/ analysis of results lacking in insight, do not adequately address how they support the key idea / “contribution” of the work.</p> <p>Suggestions for further research in this area are very limited.</p>	<p>Interpretations/ analysis of results severely lacking in and insight, and do not address how they support the key idea / “contribution” of the work.</p> <p>Suggestions for further research in this area are severely limited.</p>	
Writing Quality	<p>Text provides adequate examples and detailed descriptions; reader is never confused by the writing.</p> <p>The writing is concise: every section of text is focused on illuminating the problem, solution, and core goals of the paper.</p> <p>No grammar mistakes.</p>	<p>Text mostly provides examples and detailed descriptions; reader has to re-read a paragraph to “get” the meaning.</p> <p>The writing mostly focuses on illuminating the problem, solution, and core goals on the paper, with a few “tangents” that mostly do not distract the reader.</p> <p>Minor grammar mistakes but still easy to read/understand.</p>	<p>Most descriptions are clear, but some sections are lacking details or example to prevent the reader from understanding.</p> <p>The paper includes a few tangents and sections of text which are unnecessary, leading the reader to become distracted from the core argument of the paper.</p> <p>Poor grammar makes text hard to understand.</p>	<p>Most text is confusing; lacking in details or examples for the reader to follow the texts’ meaning.</p> <p>The core arguments of the paper are drowned out by distracting tangents.</p> <p>Poor grammar; text is impossible to understand.</p>	<p><i>NB: I do not grade for grammar.</i></p>



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Manuscript Format	<p>The paper uses standard ACM/USENIX/etc formatting</p> <p>Bibliography and citations are formatted according to acm or ieee</p> <p>Margins and spacing are neither "squished" (savetrees) nor too large (padding).</p> <p>Figures are easy to read with appropriate labels, font sizes are &gt;= 8pt, figures are appropriate for colorblind readers.</p>	<p>The paper uses a standardized format, but not standard for a systems conference, minor errors in formatting.</p> <p>Bibliography and citations are mostly well-formatted, with a few errors</p> <p>Margins and spacing are slightly "squished" (savetrees) or too large (padding).</p> <p>Figures are easy to read for most well-sighted reviewers and include complete labels.</p>	<p>The paper uses a standardized format inconsistently.</p> <p>Bibliography and citations have mistakes, inconsistencies or capitalization errors.</p> <p>Margins and spacing are noticed eably "squished" (savetrees)nor too large (padding).</p> <p>Figures are harder to read and labels are incomplete or confusing.</p>	<p>The paper appears disorganized with inconsistent formatting.</p> <p>Bibliography and citations are missing authors, have spelling mistakes, or is missing entries.</p> <p>Margins and spacing are extremely "squished" (savetrees) or too large (padding).</p> <p>Figures are hard to read and/or are missing labels.</p>	