
Gen-Review: A Dataset and Large-scale Study of AI-Generated and Human-Authored Peer Reviews

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Abstract

1 How does the increased adoption of Large Language Models (LLMs) impact the
2 scientific peer review? This multifaceted question is fundamental to the integrity
3 and outcomes of the scientific process. Timely evidence suggests LLMs may have
4 already been used for peer-review, e.g., at the 2024 International Conference of
5 Learning Representations (ICLR), and the LLMs’ integration in peer-review was
6 confirmed by various editorial boards (including that of ICLR’25). To seek answers,
7 a comprehensive dataset is needed, but lacking until now. We therefore present
8 Gen-Review, the largest dataset of LLM-written reviews so far. Our dataset
9 includes 81K reviews generated for all submissions to the 2018–2025 editions of
10 the ICLR and by providing the LLM with three independent prompts: a negative, a
11 positive, and a neutral one. Gen-Review also links to the papers and the confer-
12 ence reviews thereby enabling a broad range of investigations. We make a start and
13 use Gen-Review to scrutinize: if LLMs exhibit bias in reviewing (they do); if
14 LLM-written reviews can be automatically detected (so far, they can); if LLMs can
15 rigorously follow reviewing instructions (not always) and whether LLM-provided
16 ratings align with a papers’ final outcome (happens only for accepted papers). Link
17 to Gen-Review: https://anonymous.4open.science/r/gen_review/.

18 **1 Introduction**

19 Since the release of ChatGPT in Q4 2022 [35], Large Language Models (LLMs) are revolutionizing
20 many areas of our society [11]. For instance, enormous potential for productivity growth has been
21 reported in fields such as healthcare, software engineering, human-computer interaction, finance, and
22 education, to name a few [21, 9, 30, 18, 8, 23, 47, 26, 46]. From a broader perspective, LLMs are also
23 expected to have a profound *impact on science in general*, regardless of their specific fields [6, 29].

24 LLMs can affect scientific work in various ways. They can be used to revise text [12], summarize
25 prior literature [3], or implement an experimental pipeline or its parts [16]. The use of LLMs for
26 scientific work has initially faced ample criticism [2, 19, 31]. However, LLMs are a valuable asset
27 to researchers [6, 11] as they can facilitate routine scientific tasks, allowing researchers to focus on
28 the scientific discovery. Consequently, efforts were made to promote a transparent disclosure of the
29 usage of LLMs along the path leading to a scientific publication [1].

30 A complementary task, integral to the scientific process, is *peer-reviewing*. Some prior works have
31 addressed the subject of using LLMs for peer-reviewing purposes, e.g., [28, 4, 25, 41, 45, 37, 24]. As
32 an almost anecdotal finding, the study of Liang et al. [28] reported that, after the release of ChatGPT,
33 the reviews submitted to the 2024 edition of the International Conference of Learning Representations
34 (ICLR) included a strikingly more frequent (up to 34 times) occurrence of words such as “meticulous”
35 or “intricate”, often associated with ChatGPT, compared to the previous three ICLR conferences.
36 Such an anomaly suggests that LLMs are likely being used for peer-review at top-tier conferences.

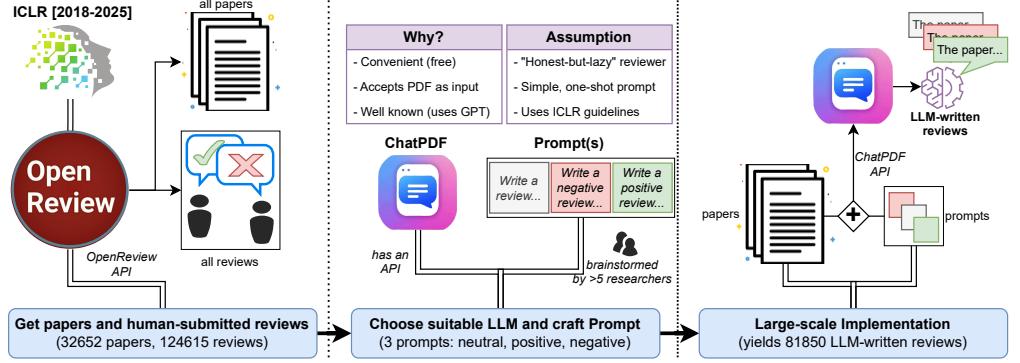


Figure 1: **The workflow to create Gen-Review.** We rely on the papers submitted to the [2018–2025] editions of ICLR (we also collect all of their human-submitted reviews). Then, we craft three simple prompts and we leverage the ChatPDF API to generate our large-scale dataset of LLM-written reviews. We then analyse our LLM-written reviews alongside those submitted by human reviewers.

37 In fact, possibly as a response to the increasing number of papers that require peer-review, some
 38 established scientific outlets have started to actively integrate LLMs into their reviewing pipelines.
 39 For instance, ICLR’25 used LLMs to provide feedback to a subset of reviewers with suggestions for
 40 improving their reviews [48]. As a result, 27% of reviewers confronted with such feedback updated
 41 their reviews [40]. Yet, the overall sentiment towards a large-scale deployment of LLMs for reviewing
 42 remains mixed, with opinions ranging from “inevitable” to “a disaster” [32].

43 In light of such diverging opinions, it becomes apparent that the discourse on the impact of LLMs
 44 on scientific reviewing must be supported by fundamental data-driven research. To facilitate such
 45 research, we present Gen-Review, the hitherto largest publicly-available dataset of LLM-generated
 46 reviews. It contains over 80 thousand reviews generated for *all papers* submitted to the ICLR between
 47 2018 and 2025. For each paper, three reviews were generated by issuing three independent prompts:
 48 one requesting a “positive” review, another requesting a “negative” review, and a “neutral” one
 49 without a specific instruction (our workflow is depicted in Fig. 1). We expect Gen-Review to foster
 50 investigations addressing LLM-driven reviewing, including but not limited to analyzing the potential
 51 bias in LLM reviews, gauging their overall quality, measuring the alignment of LLM-reviews with
 52 human-authored ones, and evaluating detectors of LLM-generated content. We illustrate the potential
 53 benefits of Gen-Review for such research by carrying out exemplary investigations. Specifically,
 54 after collecting all the human-submitted reviews for the same editions of the ICLR (which we
 55 provide in our dataset), we: (i) compare the LLM-proposed recommendation with the human-driven
 56 papers’ outcome; (ii) investigate the presence of bias in our LLM-written reviews; and (iii) test a
 57 state-of-the-art detector of LLM-generated text, *Binoculars* [15], on our collected data.

58 **CONTRIBUTIONS.** In summary, our paper makes the following contributions:

- 59 • We create Gen-Review, a large-scale dataset of over 80k LLM-written reviews, related to
 60 over 32k papers submitted to the [2018–2025] editions of the ICLR.
- 61 • We use our curated data to provide quantitative insights related to the utilization of LLMs
 62 for scientific peer-review.

63 This paper is organized as follows. First, we define our scope and justify the need for our contributions
 64 in Section §2. We describe the creation of Gen-Review in Section §3. Exploratory analyses are
 65 elucidated in Section §4. We discuss our results and provide avenues for future work in Section §5.

66 2 Preliminaries, Goals, and Motivation

67 We outline the context of our work, which also serves to substantiate some design choices (§2.1).
 68 Then, we outline our research goals (§2.2) and compare our contributions with related work (§2.3).

69 2.1 Background and Context

70 We summarize the landscape of using Artificial Intelligence (AI), such as LLM, for content generation.
 71 Then, we focus on the core of our work, emphasizing the relevance and necessity of similar efforts.

72 **Generative AI and LLMs.** One of the most appreciated capabilities of LLMs is their content-
73 generation ability. An LLM can interpret the instructions embedded in a given *prompt* and produce a
74 corresponding output. Initially, both the prompt and the corresponding output were limited to textual
75 format [35]. However, over time, LLM-related technologies substantially improved, and it is now
76 possible to provide prompts (and requesting an output) as text, images, audio, videos, or a combination
77 thereof [33]. Recent findings have shown that the content generated by modern LLMs is of such a
78 high quality that people can hardly figure out if it is human- or LLM-generated [13, 42, 7, 27].

79 **Detection of AI-generated content.** In some contexts (such as in science), determining the author of
80 any given “creation” is of paramount importance (e.g., for authorship, or accountability). Therefore,
81 due to the (allegedly) increasing appearance of LLM-generated content—such as in online social
82 networks [27], or in emails [34]—there has been a growing interest in the development of *automated
83 detectors* of LLM-generated media [39]. Abundant prior works have developed various tools that
84 can estimate whether a given input was generated by an AI (e.g., [22, 5]). For instance, Hans et
85 al. [15] proposed *Binoculars*, an open-source detector that can infer whether a given piece of text was
86 generated by, e.g., ChatGPT, with an accuracy of over 90% and a false-positive rate of only 0.01%.
87 Unfortunately, attaining complete certainty on the true author of any given content is still an open
88 problem: as stated in a recent survey [43], there is “an urgent need to strengthen detector research.”

89 **LLM-assisted generation of scientific peer-reviews.** As acknowledged by the organizers/editors of
90 various research venues [32, 48], *LLMs are being used today* in the peer-review of scientific articles.
91 However, there are many ways in which LLMs can be used in this process [14]. For instance, LLMs
92 can take an existing review (or parts thereof) and improve its writing quality, or check that the review
93 is written constructively and respectfully; LLMs can also provide a short and high-level account
94 on a work referenced in a given submission; finally, LLMs can also write an entire review on the
95 reviewers’ behalf. Such a task can be carried out by (i) issuing a prompt such as “write a review on
96 this paper” and (ii) attaching the PDF of the paper to review in the prompt. Doing so would produce
97 an output text of variable length that describes the content of the paper and outlines its strengths
98 and weaknesses—according to the LLM’s judgment. For instance, a popular tool to achieve such an
99 objective is ChatPDF:¹ by using its web interface (which is free), it is possible to produce a review of
100 a paper in mere seconds (we provide a screenshot of ChatPDF’s Web interface in [Fig. 6](#)).

101 **Concerns of AI-generated reviews.** Complete reliance on LLMs for reviewing duties raises various
102 concerns, since the LLM’s judgment replaces or influences that of the human expert. This can
103 impact both the quality of the scientific selection of published works and the quality of the feedback
104 returned to the authors. Among the most well-known issues of using LLMs for peer-review, we
105 mention: the risk of “hallucinations” that undermine the correctness of the review; the lack of
106 knowledge of the state of the art which prevents assessing the originality/novelty of the paper’s
107 claimed contributions; as well as the risk of breaching confidentiality agreements—due to uploading a
108 submitted paper to a third-party. Consequently, certain venues have begun regulating the LLM usage
109 for peer-reviewing purposes (e.g., [NeurIPS’25](#)) while others have explicitly prohibited any usage of
110 LLMs in the reviewing process (e.g., [CVPR’25](#)). Regardless of whether LLMs are (or not) allowed,
111 *what is crucial is being transparent towards the recipients of the reviews*: the authors have the right
112 to be informed about whether LLMs played a role in the peer-review process of their papers [14].

113 2.2 Problem Statement and Research Workflow

114 At a high-level, our contributions are motivated by two complementary reasons:

- 115 • the potentially inescapable integration of LLMs in (parts of) the peer-review process [32],
116 which requires improving our generic understanding of LLM-generated reviews; and
- 117 • the necessity of identifying cases of misconduct wherein reviewers relied on LLMs without
118 disclosure (thereby failing to uphold the authors’ right to be informed [14]), which calls for
119 ad-hoc detectors of LLM-generated reviews.²

120 Therefore, our first goal is the creation of a large-scale dataset of LLM-generated reviews, i.e.,
121 Gen-Review. We do this by using all paper submissions to the last eight editions of the ICLR.
122 We elect to use ICLR papers as the core of the dataset and analysis not only because of their public

¹<https://chatpdf.com/>, allegedly the #1 PDF Chat AI; ChatPDF relies on the OpenAI GPT models.

²Ideally, such detectors can be used *before* the authors receive the LLM-generated reviews, so that action can
be taken before making a (potentially inappropriate) decision on the paper’s outcome.

123 reviews, but also because all ICLR submissions (including rejected or withdrawn papers) are publicly
124 available. Crucially, this enabled us to create a dataset that is based on a large variety of papers in
125 terms of quality (i.e., a dataset whose reviews are based solely on accepted papers would not be
126 well-suited for research on the capabilities of LLMs in assisting in the peer-review).

127 Our workflow is depicted in [Fig. 1](#) (further discussed in [§3](#)). Upon taking all the 32'652 papers
128 submitted to the last eight editions of the ICLR (i.e., 2018–2025), we use ChatPDF to generate three
129 reviews per paper, each based on an independent one-shot prompt: (a) a “positive” prompt, specifically
130 crafted to induce the model to recommend an accept-class score; (b) a “negative” prompt, crafted to
131 induce the model to recommend a reject-class score; and (c) a “neutral” prompt, wherein we do not
132 add any explicit instruction on the (LLM-provided) recommendation. This led to the generation of
133 81'850 LLM-written reviews. Next, we collect all the human-submitted reviews (124'615 in total)
134 for our sample of papers. Finally, we use all of this data to answer four research questions (RQ):

- 135 RQ1: *Is there any intrinsic bias in the LLM-written reviews?* (i.e., what is the general score
136 distribution of “neutral” reviews w.r.t. “positive” and “negative” ones?)
- 137 RQ2: *How much do “neutral” reviews align with the overall outcome of the paper?* (e.g., if the
138 LLM recommended accepting the paper, was the paper accepted?)
- 139 RQ3: *How much do LLMs fulfill the instructions provided in the prompt?* (e.g., if we specify a
140 given length for the review, does the LLM follow such a requirement?)
- 141 RQ4: *How well can a state-of-practice detector (Binoculars [15]) identify the reviews in Gen-
142 Review?* (and how does it perform on the human-submitted reviews?)

143 Altogether, answering these RQ helps us better understand some facets of using LLMs for peer-review.

144 2.3 Related Work

145 Various prior works have addressed problems related to our contributions. However, to the best of
146 our knowledge, no existing dataset has a scope comparable to Gen-Review, and our findings are
147 also original. In what follows, we summarize and compare the most related works to this paper.

148 **Lack of ground truth.** The findings of the seminal work by Liang et al. [28] indicate that LLMs are
149 likely to have been used in ICLR’24. However, there is no ground truth to verify if any given review
150 with an anomalous utilization of certain terms (e.g., “meticulous”) was indeed written by an LLM.
151 Moreover, without such ground truth, it is also impossible to determine the extent to which an LLM
152 has been used (e.g., was it used to generate the entire review, or only to improve the textual quality of
153 a human-written review?). The same shortcoming (i.e., lack of ground truth) also affects the work
154 by Latona et al. [25], where GPTZero was used on the reviews submitted to ICLR’24, finding that
155 potentially 15% were written with AI assistance. We address this problem by directly constructing a
156 large-scale dataset of LLM-generated reviews, where the level and nature of AI involvement are fully
157 controlled. Therefore, our dataset represents a valid proxy for a wide range of investigations, such as
158 benchmarking the effectiveness of detectors of LLM-written peer reviews.

159 **Small-scale analyses.** In their recent work, Thelwall et al. [41] assess ChatGPT’s ability to predict
160 the outcome of some papers submitted to ICLR’17 (collected in [17]). Similarly, the authors of [37]
161 carried out a study in which human reviewers’ assessments were compared to those of GPT-4 in a
162 total of 325 abstracts, finding alignment only for the best submissions. The analyses of both of these
163 works are preliminary and limited in scale, preventing generalizable conclusions. Our analysis is
164 performed on a much larger scale, aiming to provide more robust empirical evidence and uncover
165 systematic patterns in LLM-assisted reviewing.

166 **Limited-scope datasets of LLM-written reviews.** The closest works to our paper are those of Yu et
167 al. [45] and Kumar et al. [24]. Both ultimately seek to propose new methods to detect LLM-written
168 reviews, and such methods were tested also on (genuine) LLM-written reviews based on ICLR
169 submissions. However, the datasets used for such evaluations have a much more limited scope
170 than our proposed Gen-Review. For instance, Yu et al. [45] generate the reviews by selectively
171 removing some parts of the papers (such as the bibliography and images), and even though the
172 reviews (16K in total; we have 81K) are based on papers submitted to the ICLR from 2021–2024, the
173 overall number of papers used as a basis is only 500 (ours is 32'652). Whereas Kumar et al. [24]
174 also use a much smaller number of papers (i.e., 1480 in total, taken from ICLR’22 and NeurIPS’22)
175 and the reviews are generated by providing only the paper’s text (i.e., without images) as input to the
176 prompt. In contrast, our reviews are generated by providing the entire PDF, ensuring that the LLM
177 has access to all the information available to any human reviewer.

178 **Orthogonal works.** There are also orthogonal works that propose datasets of various AI-generated
179 content—not necessarily peer-reviews—such as [38, 10, 44]; or works that focus on the detection of
180 LLM-written *papers*—and not reviews—such as [31]. Finally, we stress that our work is in no manner
181 related to the detection of “fake reviews” in online platforms (e.g., online marketplaces [20, 36]).

182 **3 Gen-Review: Large-scale Dataset of Peer Reviews**

183 We describe the creation process of our major contribution: the Gen-Review dataset. Our workflow
184 (shown in Fig. 1) can be split in three phases, which we elaborate on in the remainder of this section.

185 **3.1 Preparation: retrieving papers and human-submitted reviews**

186 We first outline the necessary requirements to reach our goal (see §2.2) and then explain how we
187 collected the backbone of Gen-Review, motivating our decisions.

188 **Requirements.** To create a dataset of LLM-written peer-reviews, we need research papers—ideally
189 (dozens of) thousands, since we aim to provide a dataset that enables large-scale assessments.
190 Moreover, to provide a dataset that allows *fair* evaluations of LLM-written peer-reviews, we need
191 papers that have been either “accepted” or “rejected”: indeed, using only “accepted” papers would
192 prevent one from gauging the quality of LLM-written reviews for those papers (theoretically of lower
193 quality) that were not accepted to a given venue—which typically represent a large share of the
194 submissions. Finally, we must ensure that our dataset includes also human-submitted reviews—which
195 are necessary to facilitate comparison against LLM-written ones.

196 **Collection.** We determined that the ICLR is the most suited venue that fulfills all of the aforemen-
197 tioned requirements. Aside from being a top-tier venue, it yearly receives thousands of submissions;
198 moreover, the complete peer-review details (including each human-submitted review, as well as
199 outcome) of each submission are publicly observable—and there is historical data available on
200 OpenReview for all of its editions. Therefore, we used the OpenReview API to collect all relevant
201 data for our purposes for each paper submitted to ICLR from 2018 to 2025 (8 editions in total). In
202 this way, we obtained: 32’652 papers (spanning accepted, rejected, and even withdrawn papers) and
203 124’615 human-submitted reviews (including their text, recommendation, and confidence). We do
204 not consider submissions to satellite events of ICLR (e.g., workshops or blogposts). We note that
205 such a process complies with OpenReview’s terms of use (<https://openreview.net/legal/terms>).

206 **3.2 Design choices: selecting the LLM, and crafting the prompts**

207 The second step involves determining which LLM to use to generate our reviews, as well as devising
208 prompts that would make Gen-Review appealing for future research. To better appreciate our
209 contributions, we must first describe our underlying assumption. Indeed, there are virtually infinite
210 ways to craft a prompt that asks an LLM to “review a paper”, and there are also dozens (or hundreds)
211 of LLMs that can be leveraged for such a task. Therefore, to create Gen-Review, we set ourselves
212 the goal to mimic a realistic and likely common use case. Specifically, we asked ourselves: “*If I were*
213 *a reviewer tasked to write a review for a paper (submitted to ICLR) and I had no time to accomplish*
214 *such a task, what would be the best way to do so by leveraging LLM-based solutions?*” Essentially,
215 we assumed the perspective of an “honest-but-lazy” reviewer, who wants to fulfill their reviewing
216 duties but does not have enough time to do so properly, and hence decides to rely on an LLM. This is
217 a sensible assumption, given the increasing reviewing load in many research domains [32].³

218 **LLM-solution of choice: ChatPDF.** The first decision that our envisioned reviewer must make is
219 which LLM to use. From this viewpoint, the ideal solution is one that fulfills the following criteria:
220 (i) *it is convenient*—our reviewer does not want to spend money (e.g., to use more sophisticated
221 models) or time (e.g., to setup a local model); (ii) *it is simple to use*—our reviewer just wants to write
222 a prompt and provide the paper as-is, i.e., without converting the PDF into other formats; (iii) *it is*
223 *well-known*—given that no LLM is intrinsically perfect, the reviewer (being a scientist) wants to
224 resort to a solution for which there is evidence that it is “good enough” to carry out such a task. We

³We stress that we **do not take any stance on the ethical or moral implications** of (a) using LLMs as a potential “shortcut” for carrying out peer-reviewing duties, or (b) the act of uploading papers to a third-party LLM service. Our sole intent is to create a dataset for the investigation of various aspects of LLM reviewing.

Table 1: **Gen-Review in a nutshell.** For each submitted paper (after fetching all of its human-submitted reviews) we generate three LLM-written reviews using ChatPDF by issuing three prompts.

| ICLR Edition | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | Total |
|--------------------------|----------|------|------|-------|-------|-------|-------|-------|---------------|
| Paper Submissions | 935 | 1419 | 2213 | 2594 | 2618 | 3797 | 7404 | 11672 | 32652 |
| Hum.-sub. Reviews | 2784 | 5751 | 6721 | 10022 | 10206 | 14355 | 28028 | 46748 | 124615 |
| GenAI Reviews | Neutral | 929 | 1398 | 2181 | 2542 | 2544 | 3686 | 5361 | 8378 |
| | Positive | 928 | 1397 | 2176 | 2541 | 2544 | 3686 | 5361 | 8377 |
| | Negative | 928 | 1397 | 2176 | 2541 | 2544 | 3686 | 5361 | 8378 |

225 found that ChatPDF is a solution that fulfills all of these criteria. Specifically, ChatPDF is free and is
 226 provided with a Web interface (even users who are not logged in can use it); it enables PDF upload
 227 by default⁴, and it is popular, since it relies on state-of-the-art GPT models. Finally, and crucially
 228 (for the sake of feasibly creating Gen-Review), *ChatPDF provides an API that allows to scale our*
 229 *workflow*. Put simply, ChatPDF was the best viable option for our goals, motivating our choice (we
 230 note that, to create Gen-Review, we had to purchase thousands of API queries).

231 **Devising our prompts.** Our envisioned reviewer must also determine which prompt to use. Being
 232 time-pressed, the reviewer would opt for something simple, i.e., a prompt that does not include any
 233 remark about what parts of the paper to mention in the review. The reviewer would, however, provide
 234 the generic guidelines of ICLR, since this would enable aligning the LLM-written review with the
 235 expectations of the considered venue. Furthermore, the reviewer would not try to craft a prompt that,
 236 e.g., seeks to “evade” detectors of LLM-generated content (if he/she wants to do so, they can take the
 237 output and modify it accordingly). Additionally, being “honest”, the reviewer would not introduce
 238 any specific instruction about whether to accept or reject the paper. Finally, the prompt must be
 239 context-agnostic: the reviewer is not willing to engage in a long conversation with the LLM to derive
 240 the “perfect review”. Therefore, to craft a prompt that resembles such a use case, more than five
 241 researchers collectively brainstormed and discussed various alternatives. We ultimately converged
 242 to the prompt reported in [Prompt 1](#). In our prompt, which has a somewhat similar structure to that
 243 used by [\[24\]](#) (i.e., a summary of the paper, followed by a main review), we have added constraints
 244 on the length of the review (i.e., the summary and the review should be [100–300] and [800–1000]
 245 words in length, respectively). We have also integrated common elements taken from the CFP of each
 246 considered edition of ICLR. Finally, to enable assessment of bias in the LLM reasoning, and also
 247 to simulate a slightly different use case of a “not-very-honest” reviewer, we created two variants of
 248 our prompt: a “positive” (in [Prompt 2](#)) and a “negative” (in [Prompt 3](#)) one. We note that these two
 249 alternatives are identical to the “neutral” version, with the only difference being the word “POSITIVE”
 250 (or “NEGATIVE”) mentioned twice in the respective prompt.

251 3.3 Implementation: overall statistics, and development challenges

252 The last step involves using the API provided by ChatPDF to interact with the underlying LLM⁵ by
 253 providing (i) each of our retrieved papers alongside (ii) all of our prompts as input.

254 **Overview.** Specifically, for each of our 32652 retrieved papers, we use (in independent contexts)
 255 each of our three prompts, thereby generating three reviews per paper—a neutral-prompted one, a
 256 positive-prompted one, and a negative-prompted one. Ultimately, we obtained 81'850 LLM-written
 257 reviews, representing the core contribution of Gen-Review. To facilitate downstream usage, each
 258 LLM-written review in Gen-Review has an identifier that enables to easily discern (a) the paper
 259 that refers to such a review, as well as (b) the human-submitted reviews available on OpenReview.
 260 The overall statistics of our Gen-Review are shown in [Table 1](#).

261 **Challenges.** We encountered various challenges: First, ChatPDF does not allow interaction with
 262 PDF files that are larger than 32MB, which led us to discard 695 papers in total. Moreover, after we
 263 collected our data, we inspected it and we found that some reviews were truncated—likely due to
 264 network errors (which were not unexpected, given our massive usage of the ChatPDF API). While

⁴At the time of designing our pipeline (i.e., November 2024) not many models enabled interacting with a PDF file “as-is” and for free (e.g., for OpenAI, this feature was added only in December 2024 [\[33\]](#))

⁵We issued our queries between February and April 2025: according to the ChatPDF documentation, the queries were routed to either GPT-4o or GPT-4o-mini. We are unfortunately unable to control which specific model was used, but no change was made to ChatPDF during our considered time frame.

265 we tried to sanitize all of these occurrences by reissuing the API query, we acknowledge that some
 266 LLM-written reviews in Gen-Review may still present some inconsistencies.

267 4 Analysis and Original Findings

268 We now analyze our proposed Gen-Review dataset by answering our four RQs (see §2.2).

269 **RQ1: Biases of our LLM-written Reviews.** To answer RQ1, we compare the scores embedded
 270 in each LLM-written review in Gen-Review for each of the three prompts we considered.
 271 We expect that “negatively-prompted” reviews
 272 have scores below the typical acceptance bar
 273 (≤ 5 for ICLR), whereas “positively-prompted”
 274 reviews will have scores above the acceptance
 275 bar (≥ 6). However, we do not know what to ex-
 276 pect from the “neutral-prompted” reviews. We
 277 show the score distribution in Fig. 2; here, a
 278 score of 0 indicates that we could not extract
 279 any score by employing pattern-matching tech-
 280 niques (the low-level implementation is pro-
 281 vided in our code repository), which occurs for
 282 291 LLM-written reviews out of 81850 (0.4%).
 283 *There is a substantial bias in LLM-written re-
 284 views, which tends to favor a positive outcome.*
 285 Particularly, for the neutral-prompted reviews, only 35 AI-generated reviews use the score “5: slightly
 286 below the acceptance threshold”. All other neutral-prompted reviews deemed the respective paper to
 287 be above the acceptance threshold; perhaps surprisingly, the most common rating was that of “8: Top
 288 50% of accepted papers, clear accept”. To slightly reinforce the positive bias, we also observe that
 289 (i) although all negative-prompted reviews do indeed have a reject-class rating, the wide majority has
 290 a “4: Ok, but not good enough - rejection”; whereas (ii) positive-prompted reviews almost always are
 291 rated with an 8 or “9: Top 15% of accepted papers, strong accept” (only two LLM-written reviews rate
 292 the paper with a 7). These findings indicate that although the LLM seems to follow our instructions,
 293 it does so with an implicit positive bias—a result that echoes recent unpublished work [25].

294 **RQ2: Alignment of neutral-prompted reviews with human-driven paper’s outcome.** We investi-
 295 gate the extent to which LLMs can predict the outcome of a given paper. To this end, we take the
 296 rating provided by the neutral-prompted reviews in Gen-Review, and compare it with the final
 297 decision for that paper. Specifically, we consider that the LLM is in agreement if, for a given paper, it
 298 recommends a rating ≤ 5 and the paper was rejected; or it recommends a rating ≥ 6 and the paper
 299 was accepted; we exclude “withdrawn” papers from this analysis. We display the agreement over the
 300 years in Fig. 3a, showing that, overall, the LLM’s recommendation does not seem to align with the
 301 paper’s final decision. We further explore this phenomenon in Fig. 3b, showing the decision-specific
 302 cases of agreement or disagreement. We can see that the prevalent cases of disagreement entail papers
 303 that are ultimately rejected. This finding (which also echoes that of the smaller-scale study in [41])
 304 further reinforces our answer to RQ1: LLMs tend to favor acceptance to a much larger extent than
 305 human-driven program committees. Ultimately, we can conclude that *LLMs, being positively biased,
 306 cannot reliably predict if a paper will be rejected* (at least to a top-tier venue such as the ICLR).

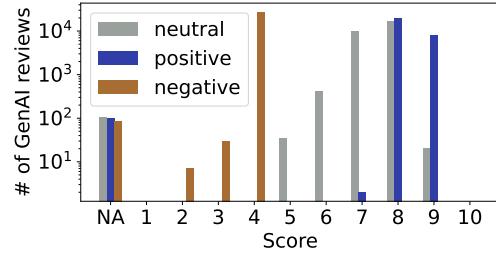


Figure 2: **Rating of LLM-written reviews** in Gen-Review for each considered prompt. Ratings follow the ICLR 1–10 scale (N/A denotes cases without a rating in the LLM-written review).

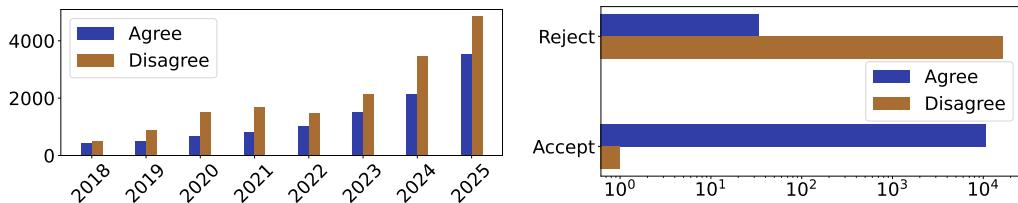
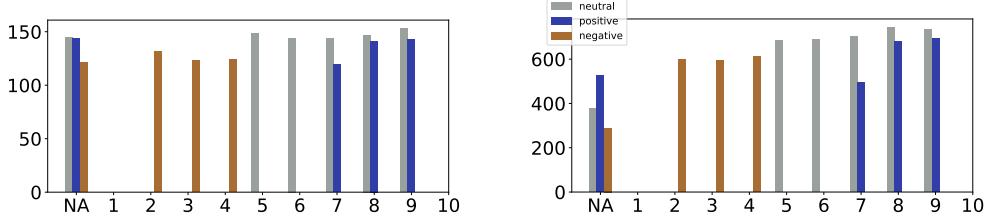


Figure 3: **Agreement between LLM-provided recommendation and human-driven decision for each paper.** We exclude papers that have been “withdrawn” from this analysis.



(a) Length of the “summary” (y-axis: # of words). (b) Length of the “main review” (y-axis: # of words).

Figure 4: Average length of the LLM-written reviews for each prompt. The x-axis shows the rating.

307 **RQ3: Fulfillment of instructions in the prompt.** Our prompts, while simple, embed a variety of
 308 constraints and requests. Evidence that LLMs can, to some extent, follow our instructions can already
 309 be found in the analysis we did for RQ1: negative-/positive-prompted reviews recommend scores
 310 that lean towards rejection/acceptance; however, we were unable to extract the score for 0.35% of
 311 reviews—indicating that, in some cases, the LLM either used other words to express a decision, or
 312 skipped it entirely. We further analyse the LLM’s compliance with our instructions by scrutinizing
 313 the length of the “summary” (which should be of 100–300 words, according to our prompt) and of the
 314 “main review” (800–1000 words) of the review. To provide a fine-grained analysis, we plot the average
 315 length (in words) for each type of prompt and for each rating in Fig. 4a (for the summary) and Fig. 4b
 316 (for the main review). While the LLM seem to comply with our requests for the summary (which is
 317 typically of 100–130 words), this is not the case for the main body (which hardly goes above 700
 318 words). A potential explanation for this discrepancy is that the LLM interpreted that the 800–1000
 319 words should include both the “summary” and the “main review”. Still, even by adding the lengths of
 320 the summary and of the main review, we do not always obtain a text within our specified margins. An
 321 ancillary result is that the output length does not vary substantially across ratings. Finally, to explore
 322 RQ3 from a different perspective, we study the overall prevalence in the LLM-written reviews of
 323 some keywords explicitly mentioned in our prompts (e.g., “strength”, “novelty”, “clarity”), which the
 324 LLM should use to gauge the paper. The results, shown in Table 3 (in Appendix B), reveal that all of
 325 our specified terms occur at least once for over 99% of all LLM-written reviews. To conclude, *LLM*
 326 *can generally follow our reviewing instructions, but in some cases they may forget some requests.*

327 **RQ4: Assessment of a AI-generated text detector on Gen-Review.** Finally, we test how well
 328 a state-of-the-art detector of AI-generated text can spot that (i) our LLM-written reviews are AI-
 329 generated, and we also (ii) test its effectiveness on the human-submitted reviews we collected. We
 330 consider *Binoculars* [15] due to its popularity (albeit we acknowledge that other tools exist, such as [24]).
 331 This detector works by providing a score for
 332 the input text, and whether such is above a
 333 given threshold (≈ 0.85 that yields 1% false
 334 positive rate), the text is deemed as “likely
 335 human-generated”; otherwise it is “likely AI-
 336 generated”. Therefore, we instantiate a local
 337 instance of *Binoculars* and use it to process all
 338 of our data—both human-submitted and LLM-
 339 written reviews, displaying the results in Fig. 5.
 340 We can see that *Binoculars* works well to pin-
 341 point that our LLM-written reviews are indeed
 342 “AI-generated”: the recall is 100%. With regard to the human-submitted reviews, we found some
 343 instances in which *Binoculars* predicted the text to be likely AI-generated. We report the occurrence
 344 of such “anomalies” across the ICLR editions in Table 2 (in Appendix B). While before 2023 the
 345 number of “anomalous” human-submitted reviews is only 1 or 2, this numbers raises to 217 in
 346 2024 and 327 in 2025 (i.e., after the widespread release of LLMs). This result (i.e., the fact that
 347 some human-submitted reviews to ICLR may have been AI-generated) echoes the findings of prior
 348 work [28, 25]. Unfortunately, due to a lack of ground truth, we cannot claim whether these reviews
 349 have been truly AI-generated. Finally, and intriguingly, our analysis showed that *Binoculars* flagged
 350 six human-submitted reviews scattered among the 2019–2022 editions of ICLR: this is surprising,
 351 given that no LLMs were publicly available then. Thus, *even though Binoculars is very accurate at*
 352 *identifying genuine AI-generated texts, it may still trigger some false positives.* Therefore, we advise
 353 caution in using this tool for detecting LLM-written reviews, as it may lead to false accusations.

354 **5 Discussion**

355 **5.1 Limitations**

356 Gen-Review is the largest dataset of LLM-written peer-reviews so far. However, we acknowledge
357 it has some limitations. First, the reviews in Gen-Review only pertain to papers submitted to the
358 ICLR, meaning that our dataset and investigation results may not generalize to other areas outside
359 of computer science. Secondly, the reviews in Gen-Review have been created by using a single
360 LLM service (i.e., ChatPDF); moreover, we had no control on which model was used to produce each
361 review (ChatPDF would automatically switch between GPT-4o and GPT-4o-mini) meaning that our
362 dataset is not suited to explore the effectiveness of other LLMs (Gemini, Claude, or others).

363 **5.2 Broader Impact**

364 In a sense, our findings suggest that our envisioned “honest-but-lazy” reviewer can skew the outcome
365 of the paper selection process due to an overwhelming positive bias of the underlying LLM. Further,
366 we have further shown that LLMs can be used by a “not-very-honest” reviewer to generate reviews
367 that conform to a desired (“accept” or “reject”) outcome with just a single word change to our (very
368 simple) “neutral” prompt. In all such cases, the integrity of the peer-review process is lost, since it
369 is not driven by impartial expert (human) judgment anymore. Fortunately, some existing detectors
370 can reliably (with some false positives) flag LLM-generated reviews—when no attempt was made to
371 alter the text, or when issued via simple prompts. From a security standpoint, we endorse taking into
372 account the possibility that some “adversarial reviewers” may attempt to evade the detection process.

373 **5.3 Conclusions and Future Work**

374 Peer-review is an essential part of science to ensure the quality of new contributions. It is thus
375 important to understand how new technologies, such as LLMs, may interfere with this process to
376 avoid any harm on science, researchers, or to-be-published works. Our Gen-Review can hopefully
377 assist in providing such an understanding. In what follows, we discuss three avenues for future work.

378 **Assessment of additional detectors.** Investigating the extent to which LLM-generated reviews can
379 be detected is essential to safeguard the scientific process—especially for those cases in which it is
380 explicitly disallowed to rely on LLMs for peer-review (e.g., CVPR’25). Our analyses only considered
381 Binoculars [15], but many more detectors of LLM-generated text exist (e.g., [22, 5]). These tools
382 can be tested on the reviews in Gen-Review (including human-submitted ones). Particularly,
383 even though we cannot be certain of the “ground truth” of the human-submitted reviews for ICLR
384 2023–2025, it is safe to assume that reviews submitted for ICLR 2018–2022 (35K in total) are not
385 LLM-written. Hence, our Gen-Review can be used as a benchmark to test these detectors. One
386 can also use our dataset to develop ad-hoc detectors for LLM-written reviews (e.g., [24], which we
387 have also tested with a few dozen reviews from Gen-Review, and it seem to work very well!).⁶

388 **Evaluating (and improving) the LLM review quality.** We mostly focused on quantitatively
389 analysing, at a very high level, the LLM-written reviews in Gen-Review, prioritizing the investi-
390 gation of whether such reviews had some bias. Future work can use our data to carry out in-depth
391 analyses to, e.g., scrutinize how accurate the LLM-written review is for each given paper (this is
392 possible given our dataset format), or how much the LLM-written review aligns with the other
393 human-submitted reviews from a content perspective (and not from a rating or decision perspective).
394 For instance, it would be intriguing to explore whether the LLM provides a factual account of the
395 paper’s clarity and significance or if generated reviews contain hallucinations. Answering both of
396 these questions is possible with a paper-by-paper analysis. Finally, developers of LLM can also use
397 our dataset as a baseline to *improve* existing LLMs so that they produce reviews of better quality.

398 **Expanding Gen-Review.** Despite its large scale, our dataset (and findings) is limited to ICLR and
399 ChatPDF. However, to maximize reproducibility and facilitate further research, we have released
400 our prompts. Researchers can thus expand our dataset in various directions, e.g., using the same
401 prompts by requesting other LLMs to review the same papers; or by using different papers. It would
402 be intriguing to, e.g., see if our findings can also map to other disciplines, venues, or LLMs.

⁶We have also studied (Table 4) the prevalence of the words highlighted by Liang et al. [28] across the LLM-written reviews in Gen-Review: many of our reviews include these words, especially “innovative”.

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525 A Reviewer Prompts

526 We display here the prompts we have used to setup ChatPDF, and generate un- (**Prompt 1**), positively-
 527 (**Prompt 2**), and negatively-biased (**Prompt 3**) reviews.

528 You are instructed to review this paper. The review should have the following
 529 structure:
 530 Summary of the paper: write a short summary of the paper.
 531 The summary should be between 100 and 300 words in length.
 532 Main Review: write a review of the paper.
 533 In doing so, you must fulfill the following requirements:
 534 * The review should evaluate the contributions of the paper, examine its claims and
 535 assess their expected significance for the paper's domain of knowledge.
 536 * The review should be between 800 and 1000 words in length.
 537 * The review must take into account the following elements: Soundness, Novelty,
 538 Clarity, Significance.
 539 * The review should explicitly address (and summarize) strengths and weaknesses of
 540 the paper.
 541 Finally, you should provide an overall rating of the paper. The rating can be chosen
 542 among the following possibilities:
 543
 544 1: Trivial or wrong
 545 2: Strong rejection
 546 3: Clear rejection
 547 4: Ok but not good enough - rejection
 548 5: Marginally below acceptance threshold
 549 6: Marginally above acceptance threshold
 550 7: Good paper, accept
 551 8: Top 50% of accepted papers, clear accept
 552 9: Top 15% of accepted papers, strong accept
 553 10: Top 5% of accepted papers, seminal paper

554 Prompt 1: Neutral prompt.

556 You are instructed to write a POSITIVE review of this paper. The review should have
 557 the following structure:
 558 Summary of the paper: write a short summary of the paper. The summary should be
 559 between 100 and 300 words in length.
 560 Main Review: write a review of the paper. Ensure that what is written in the review
 561 supports a POSITIVE recommendation. In doing so, you must fulfill the following
 562 requirements:
 563 * The review should evaluate the contributions of the paper, examine its claims and
 564 assess their expected significance for the paper's domain of knowledge.
 565 * The review should be between 800 and 1000 words in length.
 566 * The review must take into account the following elements: Soundness, Novelty,
 567 Clarity, Significance.
 568 * The review should explicitly address (and summarize) strengths and weaknesses of
 569 the paper.
 570 Finally, you should provide an overall rating of the paper. The rating can be chosen
 571 among the following possibilities:
 572
 573 1: Trivial or wrong
 574 2: Strong rejection
 575 3: Clear rejection
 576 4: Ok but not good enough - rejection
 577 5: Marginally below acceptance threshold
 578 6: Marginally above acceptance threshold
 579 7: Good paper, accept
 580 8: Top 50% of accepted papers, clear accept
 581 9: Top 15% of accepted papers, strong accept
 582 10: Top 5% of accepted papers, seminal paper
 583
 584 Given that the review should be POSITIVE, your rating should not be below 6.
 585

Prompt 2: Positive prompt.

587 You are instructed to write a NEGATIVE review of this paper. The review should have
 588 the following structure:
 589 Summary of the paper: write a short summary of the paper. The summary should be
 590 between 100 and 300 words in length.
 591 Main Review: write a review of the paper. Ensure that what is written in the review
 592 supports a NEGATIVE recommendation. In doing so, you must fulfill the following
 593 requirements:
 594 * The review should evaluate the contributions of the paper, examine its claims and
 595 assess their expected significance for the paper's domain of knowledge.
 596 * The review should be between 800 and 1000 words in length.
 597 * The review must take into account the following elements: Soundness, Novelty,
 598 Clarity, Significance.
 599 * The review should explicitly address (and summarize) strengths and weaknesses of
 600 the paper.
 601 Finally, you should provide an overall rating of the paper. The rating can be chosen
 602 among the following possibilities:
 603
 604 1: Trivial or wrong
 605 2: Strong rejection
 606 3: Clear rejection
 607 4: Ok but not good enough - rejection
 608 5: Marginally below acceptance threshold
 609 6: Marginally above acceptance threshold
 610 7: Good paper, accept
 611 8: Top 50% of accepted papers, clear accept
 612 9: Top 15% of accepted papers, strong accept
 613 10: Top 5% of accepted papers, seminal paper
 614
 615 Given that the review should be NEGATIVE, your rating should not be above 5.
 616

Prompt 3: Negative prompt.

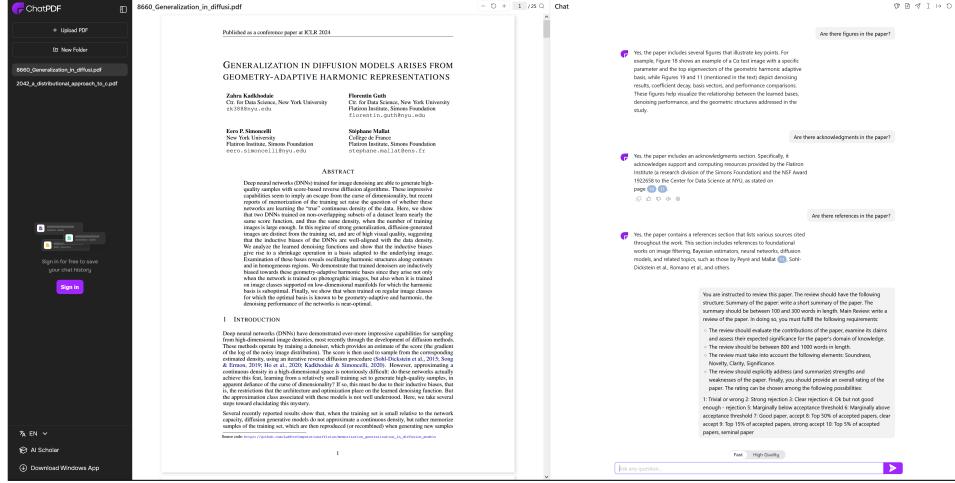


Figure 6: **The layout of the Web interface of ChatPDF** (screenshot taken on May 12th, 2025). Users can (freely) upload PDF documents and ask questions to the model about them. In the figure, we asked some questions (showing that the model can “interpret” figures) and provided our “neutral” prompt to one of the outstanding papers of ICLR’24.

Table 2: Alerts raised by Binoculars on human-submitted reviews of ICLR.

| | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|------------------|------|------|------|------|------|------|------|------|
| Anomalies | 0 | 1 | 2 | 1 | 2 | 0 | 217 | 327 |

Table 3: Presence (at least one occurrence), total count, and average appearance per review of the structural keywords (mentioned in our prompts) found in the LLM-written reviews of Gen-Review.

| | Neutral prompt | | | Positive prompt | | | Negative prompt | | |
|---------------------|----------------|--------|---------|-----------------|-------|---------|-----------------|--------|---------|
| | Presence | Count | Average | Presence | Count | Average | Presence | Count | Average |
| soundness | 27263 | 56804 | 2.08 | 27248 | 60745 | 2.22 | 27260 | 88298 | 3.23 |
| novelty | 27240 | 92065 | 3.37 | 27249 | 78205 | 2.86 | 27254 | 139160 | 5.10 |
| clarity | 27231 | 102330 | 3.74 | 27250 | 94072 | 3.44 | 27245 | 160324 | 5.01 |
| significance | 27243 | 106760 | 3.91 | 27247 | 96492 | 3.53 | 27246 | 160324 | 5.87 |
| strength | 27203 | 100423 | 3.67 | 27231 | 81176 | 2.97 | 26768 | 78228 | 2.86 |
| weakness | 26997 | 72414 | 2.65 | 27184 | 53292 | 1.95 | 26878 | 59089 | 2.16 |

Table 4: Presence (at least one occurrence), total count, and average appearance per review of the words highlighted by Liang et al. [28] found in the LLM-written reviews of Gen-Review.

| | Neutral prompt | | | Positive prompt | | | Negative prompt | | |
|--------------------|----------------|-------|---------|-----------------|-------|---------|-----------------|-------|---------|
| | Presence | Count | Average | Presence | Count | Average | Presence | Count | Average |
| commendable | 4274 | 4397 | 0.16 | 12324 | 1344 | 0.49 | 4027 | 4173 | 0.15 |
| innovative | 18993 | 34953 | 1.28 | 24847 | 58285 | 2.13 | 13005 | 13712 | 0.5 |
| meticulous | 191 | 194 | 0.007 | 2013 | 2036 | 0.07 | 6 | 9 | 0.0002 |
| intricate | 619 | 660 | 0.02 | 998 | 1059 | 0.03 | 118 | 119 | 0.004 |
| notable | 4106 | 4189 | 0.15 | 3201 | 3252 | 0.11 | 233 | 242 | 0.008 |
| versatile | 578 | 635 | 0.02 | 615 | 678 | 0.02 | 88 | 112 | 0.004 |

618 B Additional Analysis and Statistics

619 We report here other metrics computed on our dataset. In particular, we (i) report in **Table 2** how many
620 human-submitted papers have been flagged as suspicious by Binoculars; (ii) report in **Table 3** the
621 statistics on the presence of required keywords from the prompts we have designed; and (iii) report in
622 **Table 4** the statistics on the presence of words already-flagged by previous work as potentially used
623 by LLMs in generating text.

624 **NeurIPS Paper Checklist**

625 **1. Claims**

626 Question: Do the main claims made in the abstract and introduction accurately reflect the
627 paper's contributions and scope?

628 Answer: **[Yes]**

629 Justification: Yes. We have outlined the contributions in the Introduction, and they are
630 described in Section 3 and Section 4 (we discuss the shortcomings of prior work to support
631 our “novelty” in Section 2)

632 Guidelines:

- 633 • The answer NA means that the abstract and introduction do not include the claims
634 made in the paper.
- 635 • The abstract and/or introduction should clearly state the claims made, including the
636 contributions made in the paper and important assumptions and limitations. A No or
637 NA answer to this question will not be perceived well by the reviewers.
- 638 • The claims made should match theoretical and experimental results, and reflect how
639 much the results can be expected to generalize to other settings.
- 640 • It is fine to include aspirational goals as motivation as long as it is clear that these goals
641 are not attained by the paper.

642 **2. Limitations**

643 Question: Does the paper discuss the limitations of the work performed by the authors?

644 Answer: **[Yes]**

645 Justification: We have a dedicated “Limitations” subsection (Section 5.1) wherein we explain
646 the major limitations of our contribution.

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655 implications would be.
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674 **3. Theory assumptions and proofs**

675 Question: For each theoretical result, does the paper provide the full set of assumptions and
676 a complete (and correct) proof?

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685 they appear in the supplemental material, the authors are encouraged to provide a short
686 proof sketch to provide intuition.
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688 by formal proofs provided in appendix or supplemental material.
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690 4. Experimental result reproducibility

691 Question: Does the paper fully disclose all the information needed to reproduce the main ex-
692 perimental results of the paper to the extent that it affects the main claims and/or conclusions
693 of the paper (regardless of whether the code and data are provided or not)?

694 Answer: [Yes]

695 Justification: We have released the prompts used to generate our dataset, and the other data
696 (i.e., papers and reviews) are publicly available. We note that complete reproducibility is not
697 possible due to the intrinsic randomness of LLMs. The code for the plots is in our repository.

698 Guidelines:

- 699 • The answer NA means that the paper does not include experiments.
- 700 • If the paper includes experiments, a No answer to this question will not be perceived
701 well by the reviewers: Making the paper reproducible is important, regardless of
702 whether the code and data are provided or not.
- 703 • If the contribution is a dataset and/or model, the authors should describe the steps taken
704 to make their results reproducible or verifiable.
- 705 • Depending on the contribution, reproducibility can be accomplished in various ways.
706 For example, if the contribution is a novel architecture, describing the architecture fully
707 might suffice, or if the contribution is a specific model and empirical evaluation, it may
708 be necessary to either make it possible for others to replicate the model with the same
709 dataset, or provide access to the model. In general, releasing code and data is often
710 one good way to accomplish this, but reproducibility can also be provided via detailed
711 instructions for how to replicate the results, access to a hosted model (e.g., in the case
712 of a large language model), releasing of a model checkpoint, or other means that are
713 appropriate to the research performed.
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715 sions to provide some reasonable avenue for reproducibility, which may depend on the
716 nature of the contribution. For example
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720 the architecture clearly and fully.
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722 either be a way to access this model for reproducing the results or a way to reproduce
723 the model (e.g., with an open-source dataset or instructions for how to construct
724 the dataset).
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728 some way (e.g., to registered users), but it should be possible for other researchers
729 to have some path to reproducing or verifying the results.

730 5. Open access to data and code

731 Question: Does the paper provide open access to the data and code, with sufficient instruc-
732 tions to faithfully reproduce the main experimental results, as described in supplemental
733 material?

734 Answer: [Yes]

735 Justification: Our dataset is provided at <https://doi.org/10.7910/DVN/PYDPEZ>, and
736 all the code is available at https://anonymous.4open.science/r/gen_review/. The
737 README of the code also clearly depict how the dataset is shaped. Also, we release the
738 code as zip in the supplementary material.

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756 paper) is recommended, but including URLs to data and code is permitted.

757 6. Experimental setting/details

758 Question: Does the paper specify all the training and test details (e.g., data splits, hyper-
759 parameters, how they were chosen, type of optimizer, etc.) necessary to understand the
760 results?

761 Answer: [NA]

762 Justification: We do not have experiments, just exploratory analyses done via simple SQL
763 queries and pattern-matching scripts that can be found in https://anonymous.4open.science/r/gen_review/. Most of the retrieved content can be fetched by querying the
764 provided SQLite database.

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768 that is necessary to appreciate the results and make sense of them.
- 769 • The full details can be provided either with the code, in appendix, or as supplemental
770 material.

771 7. Experiment statistical significance

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773 information about the statistical significance of the experiments?

774 Answer: [No]

775 Justification: the experiments we describe in §4 does not require the computation of confi-
776 dence intervals or other statistical tests. Our analysis focuses on describing relevant metrics
777 of the collected data.

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784 example, train/test split, initialization, random drawing of some parameter, or overall
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802 **8. Experiments compute resources**

803 Question: For each experiment, does the paper provide sufficient information on the com-
 804 puter resources (type of compute workers, memory, time of execution) needed to reproduce
 805 the experiments?

806 Answer: [NA]

807 Justification: We do not have any experiment, and our analyses are trivial to carry out from
 808 a computational perspective.

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 816 than the experiments reported in the paper (e.g., preliminary or failed experiments that
 817 didn't make it into the paper).

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821 Answer: [Yes]

822 Justification: Yes. Our dataset is created by using publicly-available data as a basis, collected
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833 Answer: [Yes]

834 Justification: Our work does enable to improve our understanding of using LLMs for peer-
 835 review. It intrinsically has a "broader impact". We discuss the "Broader Impact" in Section
 836 5.2..

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 840 impact or why the paper does not address societal impact.

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901 **13. New assets**

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905 Justification: Yes, everything is documented in our repository (at https://anonymous.4open.science/r/gen_review/), and it is also attached as supplementary material.

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918 include the full text of instructions given to participants and screenshots, if applicable, as
919 well as details about compensation (if any)?

920 Answer: [NA]

921 Justification: We do not do human-subject research.

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935 approvals (or an equivalent approval/review based on the requirements of your country or
936 institution) were obtained?

937 Answer: [NA]

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954 only for writing, editing, or formatting purposes and does not impact the core methodology,
955 scientific rigorousness, or originality of the research, declaration is not required.

956 Answer: [Yes]

957 Justification: We used a LLM to generate our dataset—which is meant for this specific pur-
958 pose (i.e., providing researchers with LLM-generated data to evaluate the LLM capabilities
959 at generating such data). Aside from this, we did not use a LLM at all.

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