

Related Work and Citation Text Generation: A Survey

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Abstract

To convince readers of the novelty of their research paper, authors must perform a literature review and compose a coherent story that connects and relates prior works to the current work. This challenging nature of literature review writing makes automatic related work generation (RWG) academically and computationally interesting, and also makes it an excellent test bed for examining the capability of SOTA natural language processing (NLP) models. Since the initial proposal of the RWG task, its popularity has waxed and waned, following the capabilities of mainstream NLP approaches. In this work, we survey the zoo of RWG historical works, summarizing the key approaches and task definitions and discussing the ongoing challenges of RWG.

1 Introduction

Academic research is an exploratory activity to solve problems that have never been resolved before. Each academic research paper must sit at the frontier of the field and present novelties that have not been addressed by prior work; to convince readers of the novelty of the current work, the authors must perform a literature review to compare their work with the prior work. In natural language processing (NLP), a short literature review is usually conducted under the “Related Work” section (RWS). Writing an RWS is non-trivial; it is insufficient to simply concatenate generic summaries of prior works. Instead, composing a coherent story that connects each related work and the current (citing) work, reflecting the author’s understanding of their field, is preferred [Li and Ouyang2024].

The challenging nature of RWS writing makes automatic related work generation (RWG) an academically and computationally interesting problem. RWG is a complex task that involves multiple NLP subtasks, such as retrieval-augmented generation, long document under-

standing, and query-focused multi-document summarization. Moreover, since most NLP papers have an RWS and NLP researchers are natural domain experts for evaluating these RWS, the RWG task is an excellent test bed for examining the capability of SOTA NLP models.

RWG also fills a practical need. Due to the rapid pace of research publications, including preprints that have not yet been peer-reviewed, keeping up to date with the latest work in a research area is very time-consuming. Even with daily feed tools, like the Semantic Scholar Research Feed¹, researchers still have to curate, read, and digest all the new papers in their feed. Thus, there is a need for concise, automatically generated literature reviews that regularly summarize the papers in a user’s feed.

Since [Hoang and Kan2010] initially proposed the task, the popularity of RWG has waxed and waned, following the capabilities of mainstream NLP approaches: from rule-based to extractive summarization, then to abstractive summarization on the sentence level, and finally to abstractive section-level RWG. Currently there is a surge of renewed interest in RWG due to the recent success of large language models (LLMs). In this work, we survey the zoo of RWG historical works.

We find that, surprisingly, most RWG works are not directly comparable because they vary drastically in task definition and simplifying assumptions (Section 2), as well as using different input features and representations (Section 3). There is no standard benchmark dataset for RWG (Section 4), as most works apply custom preprocessing to extract RWS or individual citations, reflecting differences in their task definitions. Further, many works do not release their models or generated outputs, so it is often impossible for later works to compare against earlier approaches (Section 5). Finally, we discuss ethical concerns related to RWG, such as plagiarism and non-factual statements, and the potential consequences of fully automatic RWG on the human process of scientific thinking

¹<https://www.semanticscholar.org/faq/what-are-research-feeds>

and writing (Section 6.3).

2 Task Definition

The task definition for RWG has varied as the SOTA text summarization approach has evolved over time. Even where the overall approach is similar (e.g. extractive or abstractive approaches), different assumptions are made with respect to the availability of system inputs and the unit at which an RWS is generated (Table 1).

2.1 Extractive Related Work Generation

[Hoang and Kan2010] defined RWG as generating the RWS of a target paper given the rest of the target paper and all cited papers. This focus on extracting and concatenating salient sentences from the cited papers to form an RWS was used by most subsequent extractive RWG approaches [Hu and Wan2014, Wang et al.2018, Deng et al.2021].

One key variant is that of [Chen and Zhuge2019, Wang et al.2019]; who extracted sentences from other works that also referenced the cited papers. Otherwise, the main difference among extractive approaches is in how they order the extracted sentences: [Hoang and Kan2010, Wang et al.2018, Chen and Zhuge2019, Wang et al.2019] assumed the correct ordering as input (either via a human-constructed topic tree or the ground truth ordering of the target RWS), while [Hu and Wan2014, Deng et al.2021] used topic modeling and a sentence reordering module, respectively, to predict an ordering.

2.2 Abstractive Related Work Generation

With the advent of neural language models, two different versions of the abstractive RWG task have been proposed: generating single citation texts versus paragraphs or full RWS.

2.2.1 Citation Text Generation

Early neural language models, such as the Pointer-Generator [See et al.2017] and early pretrained Transformers [Vaswani et al.2017], were capable of fluent abstractive summarization but had severe input length restrictions. Because scientific research papers are very long documents, a new version of the RWG task arose: generating individual citation texts. The system input now needed to include only one or a few cited papers, and to further shorten the system input, researchers no longer included the full texts of the target and cited papers, but used only the target citation context and the cited paper

abstract (and occasionally the introduction and conclusion sections).

The main difference among single citation text generation works is in how a citation is defined. [AbuRa’ed et al.2020, Xing et al.2020, Ge et al.2021, Luu et al.2021, Gu and Hahnloser2023] restrict citation texts to be single sentences; [Jung et al.2022] allow any number of consecutive sentences, while [Li et al.2022, Li et al.2023, Mandal et al.2024] additionally allow citations that are shorter than a full sentence. Almost all works restrict citations to contain only one cited paper; only [Li et al.2022, Li et al.2023, Mandal et al.2024] explicitly allow multiple cited papers.

2.2.2 Section-Level Generation

[Chen et al.2021, Chen et al.2022] pioneered section-level RWG by treating the paragraph as the unit of generation; they required that a target paragraph contain at least two citations, explicitly distinguishing their work from the single citation text generation setting. While [Chen et al.2021, Chen et al.2022] used the given paragraph organization of the target RWS, subsequent works focused on ordering and organizing citations into paragraphs and generating transitional sentences between citations [Liu et al.2023, Li and Ouyang2024, Martin-Boyle et al.2024].

Further, the great success of SOTA LLMs in multiple natural language understanding and generation tasks, combined with their large context windows, have recently made it possible to generate a full RWS in a single pass [Li and Ouyang2024, Martin-Boyle et al.2024]. Thus, the task definition has now returned to the full RWS generation originally proposed by [Hoang and Kan2010] and previously tackled only by extractive approaches.

3 Overview of Approaches

When [Hoang and Kan2010] proposed the RWG task, they identified three main steps: (1) Finding relevant documents, (2) Identifying the salient aspects of these documents with respect to the current work; (3) Generating a topic-biased summary. In practice, all existing works skip the document retrieval step by using the gold cited paper list in the target RWS. At a high level, the methodologies of most extractive, citation-level and section-level abstractive RWG approaches are similar within their respective categories: extractive approaches focus on the salience step and simply concatenate the extracted sentences to form the summary, while abstractive approaches focus on directly generating the summary, often without explicitly modeling salience. In this section, we do not give an exhaustive description of all methodologies, but

	Output Unit			Cited Paper Input		Citation Order/Grouping		Availability	
	Sent	Para	Sect	Excerpts	FullText	Given	Predicted	Data	Code
Extractive									
Hoang and Kan (2010)									
Hu and Wan (2014)									
Wang et al. (2018)									
Chen and Zhuge (2019)									
Wang et al. (2019)				*					
Deng et al. (2021)									
Abstractive (citation)									
AbuRa’ed et al. (2020)									
Xing et al. (2020)									
Ge et al. (2021)									
Luu et al. (2021)									
Jung et al. (2022)	*								
Li et al. (2022)	*					**			
Gu and Hahnloser (2023)									
Li et al. (2023)	*			*		**			
Mandal et al. (2024)	*								
Abstractive (section)									
Chen et al. (2021)									
Chen et al. (2022)									
Liu et al. (2023)									
Li and Ouyang (2024)						†			
Martin-Boyle et al. (2024)							**		‡

Table 1: Comparison of the task definitions of extractive and both single-citation and full-section abstractive approaches to related work generation. * indicates works that allow multi-sentence citations. ** indicates works that extract snippets/features from the cited paper full text. † indicates works that use human editing to improve predicted citation groupings. ‡ indicates works that provide large language model prompts.

highlight some common features and design perspectives from the overall body of RWG work (summarized in Table 2). The details of individual works can be found in Appendix A.

3.1 Representing Cited Papers

Abstracts. In abstractive RWG approaches, and some extractive approaches, the cited paper title and abstract are commonly used as a proxy for its full text [AbuRa’ed et al.2020, Xing et al.2020, Ge et al.2021, Chen et al.2021, Chen et al.2022, Jung et al.2022, Li et al.2022, Gu and Hahnloser2023, Liu et al.2023, Mandal et al.2024, Martin-Boyle et al.2024], occasionally augmented with the introduction and/or conclusion [Hu and Wan2014, Chen and Zhuge2019, Deng et al.2021]. The abstract is a concise summary of the central ideas of the cited paper and can fit in a neural language model’s input length limit where the full text cannot. Abstracts also play an important role in scientific communication as a preview of the paper, so they are easy to access even when their full text are blocked by paywalls. [Li and Ouyang2024] find that generated RWS

conditioned on cited paper abstracts are preferred by human readers over those conditioned on LLM-generated faceted summaries [Meng et al.2021] of the cited papers.

Cited Text Spans (CTS). [Li et al.2023] proposed to condition on automatically predicted CTS rather than cited paper abstracts. CTS refers to the specific span of the cited paper that a given citation refers to; to draw a parallel to claim verification, the citation can be thought of as the claim, and the CTS as its supporting evidence. Thus, [Li et al.2023] effectively proposed an extract-then-abstract approach to citation text generation, arguing that the cited paper abstract may not always contain sufficient information to ground the target citation. It is interesting to note that CTS had previously been used for extractive RWG by [Wang et al.2019], who extracted CTS for other citations of the cited paper in works similar to the target paper.

Citation Graphs. Since an RWS describes the relationship between the target paper and prior work, as well as among prior works, some section-level RWG approaches have modeled the local citation network of the target and cited papers. [Wang et al.2018] used a ran-

	Cited Paper Representation				Target Paper Context				Citation Analysis	
	Abs	Intro	RWS	Concl	Intro	RWS	Concl	CTS	Graph	MTL
Extractive										
Hoang and Kan (2010)										
Hu and Wan (2014)										
Wang et al. (2018)										
Chen and Zhuge (2019)										
Wang et al. (2019)								*		
Deng et al. (2021)										
Abstractive (citation)										
AbuRa’ed et al. (2020)										
Xing et al. (2020)					†					
Ge et al. (2021)										
Luu et al. (2021)										
Jung et al. (2022)										
Li et al. (2022)					†					
Gu and Hahnloser (2023)										
Li et al. (2023)		*			†					
Mandal et al. (2024)					†					
Abstractive (section)										
Chen et al. (2021)										
Chen et al. (2022)										
Liu et al. (2023)										
Li and Ouyang (2024)										
Martin-Boyle et al. (2024)										

Table 2: Comparison of RWG approaches. * All surveyed works used cited paper titles and abstracts, which are not listed in this table. † The target citation itself is masked. ** indicates features extracted from the listed sections.

dom walk on a heterogeneous bibliography graph consisting of paper, author, venue, and keyword nodes to prune the search space of salient sentences for extractive RWG. [Ge et al.2021, Chen et al.2021, Chen et al.2022] used customized neural network architectures inspired by Graph Attention Networks [Velickovic et al.2018] to encode the local citation network as an additional input for abstractive RWG, while [Li and Ouyang2024] prompted an LLM to generate a natural language description of the relationship between a pair of papers in the citation network.

3.2 The Importance of Citation Context

Citation context refers to the text preceding or surrounding the target citation or RWS. In the case of individual citations, the context is commonly defined as several sentences before, and optionally after, the target citation [Xing et al.2020, Ge et al.2021, Li et al.2022, Li et al.2023, Mandal et al.2024]; for some citation text generation works and most section-level RWG works, the context can be the full text of the target paper, or a few key sections, most commonly the title, abstract, introduction, and conclusion [Luu et al.2021, Jung et al.2022, Gu and Hahnloser2023, Chen et al.2022,

Li and Ouyang2024, Martin-Boyle et al.2024].

Intuitively, the context indicates which topics are salient to the target paper, restricting the RWG solution space. Extractive works [Hu and Wan2014, Chen and Zhuge2019, Wang et al.2019] used the context as a query to score cited paper sentences. In abstractive approaches, conditioning on the context improves the coherence of the generated text with the rest of the target paper; [Mandal et al.2024] found human readers preferred citations generated using the entire context, with the target citation embedded inside it, as the generation target.

It is interesting to note that a few works did not use any target paper context at all [Hoang and Kan2010, AbuRa’ed et al.2020, Chen et al.2021], but these were early works in their respective categories (extractive versus abstractive citation- or section-level generation), and later works all used target paper context.

3.3 Applying Citation Analysis

Citation analysis is a related area of research studying the properties of citations in scientific writing. Several studies have proposed taxonomies such as citation function [Garfield et al.1965, Teufel et al.2006, Dong and Schäfer2011, Jurgens et al.2018,

Tuarob et al.2019, Zhao et al.2019], citation intent [Cohan et al.2019, Lauscher et al.2021], and citation sentiment [Athar2011, Athar and Teufel2012, Ravi et al.2018], and such labels have been used to improve RWG performance.

[Ge et al.2021] used citation function prediction as an auxiliary training objective. [Jung et al.2022, Gu and Hahnloser2023] used citation intents to perform controllable citation text generation. Inspired by the observation of [Lauscher et al.2022] that simple citation label sets struggle to represent ambiguous, real-world citations, [Li and Ouyang2024] used LLM-generated, natural language descriptions of function of a cited paper in other, similar works that also cited it.

Other work has studied the discourse properties and organization of citations. [Jaidka et al.2010, Jaidka et al.2011, Jaidka et al.2013a, Jaidka et al.2013b] classified literature reviews into integrative (summarizing individual cited papers) and descriptive (focusing on high-level ideas from multiple papers) writing styles. [Li et al.2022] proposed a more fine-grained taxonomy at the citation level, labeling citations as dominant (the main focus of their sentence) or reference (tangential to the rest of their sentence). [Li and Ouyang2024] used this taxonomy to analyze the writing style of LLM-generated RWS and observed a strong correlation between the proportion of reference-type citations and human preference scores, concluding that human readers prefer integrative RWS supported by reference-type citations. Similarly, [Martin-Boyle et al.2024] found that both human-written and human-assisted, LLM-generated RWS had significantly more cited papers per sentence than pure machine-generated RWS.

3.4 Human-Assisted Generation

While RWG models are optimized to reconstruct the original citation texts or RWS in their training datasets, the ultimate goal of the task is to generate an RWS that satisfies a user. Human readers are sensitive to errors in cited paper organization (e.g. papers cited in the same paragraph are not sufficiently related to each other) and emphasis (e.g. less salient papers are described in greater detail than more salient ones); currently, even SOTA LLMs are not capable of organizing and emphasizing a set of cited papers without human guidance [Li and Ouyang2024, Martin-Boyle et al.2024].

Thus, human input has been included in several RWG works. To determine the most salient aspects of a cited paper for single citation text generation, [Li et al.2023] proposed to retrieve cited text spans (CTS) using user-provided keywords as queries, while [Gu and Hahnloser2023] directly used human-written keywords as an additional input. [Li and Ouyang2024]

Data Source	Domain	NLP/AI Only	General CS
AAN	Linguistics		
S2ORC	Multi-disciplinary		
Delve	CS (multiple fields)		
Other	Varies		
Extractive			
Hoang and Kan (2010)			
Hu and Wan (2014)			
Wang et al. (2018)	CS		
Chen and Zhuge (2019)	NLP/AI		
Wang et al. (2019)	NLP		
Deng et al. (2021)	NLP*		
Abstractive (citation)			
AbuRa'ed et al. (2020)	NLP*		
Xing et al. (2020)	NLP		
Ge et al. (2021)	NLP		
Luu et al. (2021)	CS		
Jung et al. (2022)	CS		
Li et al. (2022)	NLP**		
Gu and Hahnloser (2023)	CS		
Li et al. (2023)	NLP**		
Mandal et al. (2024)	NLP**		
Abstractive (section)			
Chen et al. (2021)	CS		
Chen et al. (2022)	Multi		
Liu et al. (2023)	Multi		
Li and Ouyang (2024)	Multi		
Martin-Boyle et al. (2024)	NLP		

Table 3: List of common datasets used in related work generation. * indicates works that use the SciSummNet subset of AAN. ** indicates works that use the CORWA subset of S2ORC. † indicates works that published their datasets, but the repositories are no longer accessible.

extended this idea to section-level RWG by proposing to use a human-written short summary of the main ideas of the target RWS. Also for section-level RWG, [Martin-Boyle et al.2024] introduced a human-in-the-loop component where the user edited a predicted cited paper grouping before the generation step.

4 Datasets

Despite the twenty published works on RWG, there is no standard benchmark dataset for the task. As we discussed in Section 2, most RWG works define their own version of the task; they also create their own datasets, adapted to their particular task definition. In this section, we describe the most commonly used sources of scientific articles (Table 3) and summarize how RWG works have built on these sources. The details of each work’s datasets can be found in Appendix Table 6.

4.1 Common Datasets

The ACL Anthology Network (AAN) Corpus [Radev et al.2013] consists of papers published by the Association for Computational Linguistics (ACL). For each paper, it annotates the set of sentences in any other AAN paper that cite that paper. Both in the construction of AAN, as well as in single citation text generation works that use it, individual citation texts are extracted via string search for citation marks, such as “Smith et al. (2024)” or “[1]” [Xing et al.2020, Ge et al.2021].

SciSummNet [Yasunaga et al.2019], used by [AbuRa’ed et al.2020, Deng et al.2021], is a subset of papers from the AAN corpus with human-validated citation sentences and summaries.

Delve [Akujuobi and Zhang2017] consists of papers from several computer science conferences spanning multiple fields of research. It includes automatically extracted paper abstracts and full text, as well as citation texts and links.

The Semantic Scholar Open Research Corpus (S2ORC) [Lo et al.2020] contains open-access papers from multiple disciplines. The papers are annotated with automatically detected inline mentions of citations, figures, and tables, which saves researchers the need to process raw PDF files.

Citation Oriented Related Work Annotation (CORWA) [Li et al.2022] is derived from the ACL partition of S2ORC and is annotated specifically for citation text generation. CORWA labels citations and their discourse roles (dominant or reference).

4.2 Discussion

One common challenge with all existing datasets is that, for a given target paper, not all of its cited papers are necessarily in the dataset (e.g. because they are behind a paywall). In single citation text generation works, such missing cited papers are simply omitted from training and testing. For section-level RWG, missing cited papers are a bigger problem, as their absence may disrupt the flow of the generated RWS [Li and Ouyang2024].

It is also interesting to note that the majority of RWG works have used NLP datasets, and almost no works use papers from outside the domain of computer science. It is likely that RWG researchers prefer to use NLP papers because they include a separate RWS that is easy to extract, which is not the case in all fields of research; they are within the researchers’ own domain of expertise, making system development easier; and they are in the domain of the researchers’ colleagues, making it easier to recruit human judges for evaluation.

Finally, with the advent of LLM-based approaches, RWG researchers must contend with the possibility that a target paper was part of the training data of

their model. As a result, LLM-based works have explicitly targeted recent papers [Li and Ouyang2024, Martin-Boyle et al.2024].

5 Evaluation

5.1 Baselines

As Appendix Tables 8 & 9 show, there are a few baselines widely used across RWG works. Extractive works commonly use LEAD [Wasson1998], MEAD [Radev et al.2004], LexRank [Erkan and Radev2004], and TextRank [Mihalcea and Tarau2004], while abstractive works use naive sequence-to-sequence approaches, with base models such as PTGEN [See et al.2017], BertSumAbs [Liu and Lapata2019], and Longformer Encoder-Decoder [Beltagy et al.2020]. These common baselines are relatively easy to replicate because they are well-documented, general-purpose summarization approaches. In contrast, most specialized RWG approaches are not easy to replicate and are thus rarely used as baselines for later works; we discuss this issue further in Section 6.1.

5.2 Metrics

Almost all RWG works use the summarization metric ROUGE [Lin2004] as their automatic evaluation metric; [Luu et al.2021] additionally use the translation metric BLEU [Papineni et al.2002].

Most works additionally conduct human evaluations, as is common in natural language generation tasks. While there is no fixed standard for how to conduct an RWG human evaluation, most works evaluate at least 15 samples, with three human judges per sample. Judges are generally asked to rate the fluency or readability, the coherence with respect to the target paper, and the relevance or informativeness with respect to the cited paper on a five-point Likert scale.

The relatively small number of human-evaluated samples in RWG works is likely due to the difficulty of recruiting human judges with the expertise to understand the generated citation texts or RWS, as well as the high time commitment and difficulty of the task, which requires judges to read multiple, highly specialized documents. A more detailed summary of metrics used in RWG works can be found in Appendix Table 10.

6 Conclusions and Discussion

Having surveyed the field of RWG from the perspectives of task definition, approach, datasets, and evaluation methods, we conclude by identifying three main chal-

allenges in modern RWG and make recommendations for future work in this area.

6.1 Lack of Comparability

Work in RWG is fragmented in terms of task definitions, datasets used for training and evaluation, and how evaluations are conducted. Unlike most NLP tasks, there are no standard benchmarks for RWG. Table 1 shows that around half of existing works do not release their models or generated citation texts/RWS, making it impossible to reproduce or directly compare approaches.

As we discuss in Section 2, RWG works do not agree on the definition of citation (one or more cited papers discussed in one or more sentences, or just part of a sentence) or related work section (a concatenation of individual citations or paragraphs versus one continuous and coherent piece of text). Thus, the target outputs of most RWG systems are not directly comparable to those of other systems.

A deeper problem with the varying definitions of citation is noted by [Li et al.2022], who argue that human annotators can easily find examples of human-written citations that are longer or shorter than a single sentence, or that contain more than one cited paper, so ignoring citations that are longer than a single sentence or discuss more than a single cited paper is unrealistic. They further argue that restricting citations to be single sentences is problematic when the approach uses citation context; in the case of a multi-sentence citation, an RWG system that assumes each citation can only be one sentence and uses the surrounding sentences as context will actually use the rest of the sentences from the target citation as context, creating an information leakage problem.

Variation in datasets comes partly from differences in the task definition and partly from the fact that, of the commonly used source corpora, only the CORWA partition of S2ORC [Li et al.2022] is explicitly designed for RWG; the others (AAN, S2ORC, and Delve) are general-purpose scholarly document and citation analysis datasets. As a result, these other source corpora either automatically extract citations by searching for sentences containing citation marks or do not label citations at all; in the latter case, RWG researchers extract citations themselves by searching for sentences containing citation marks and imposing assumptions about the number of cited papers a citation can contain. Besides CORWA, only the annotations of [Xing et al.2020] provide human-labeled citations.

Finally, variation in evaluation stems from the existing problem in general summarization research where automated metrics, such as the commonly used ROUGE scores, do not correlate well with human judgments, so many RWG works perform human evaluation. While flu-

ency, coherence, and relevance are commonly used aspects of human evaluation (Appendix Table 10), many works define custom aspects, such as succinctness [Chen et al.2021, Deng et al.2021, Liu et al.2023], factual correctness [Li and Ouyang2024], and correctness of citation intent [Jung et al.2022, Gu and Hahnloser2023].

6.2 Common Limitations and Suggestions for Future Work

We find several limitations common to existing work on RWG for future work to consider.

Citation ordering and organization. Out of twenty surveyed RWG works, only four attempt to predict the correct ordering and/or grouping of citations into paragraphs [Hu and Wan2014, Deng et al.2021, Liu et al.2023, Martin-Boyle et al.2024]; an additional two papers acknowledge the citation ordering and grouping problem but assume a human-provided ordering is available [Hoang and Kan2010] or use a chronological ordering heuristic [Li and Ouyang2024]. Yet [Li and Ouyang2024] observed that human readers noticed and disliked errors in citation grouping, such as when chronologically adjacent cited papers about different topics were placed in the same paragraph, and [Martin-Boyle et al.2024] found significant differences in the organization of generated RWS with and without human-assisted citation grouping. We suggest fully automatic citation ordering and grouping as an important area for further investigation. For example, cited papers might be clustered based on their faceted summaries (e.g. their task objectives or methodologies; [Meng et al.2021]). In addition, the generated RWS should deliver a coherent story and use a more abstract, human-like writing style, perhaps by using LLMs with multi-stage prompting to simulate human authors’ thinking processes. Existing human-in-the-loop approaches can be extended to develop RWS that are truly helpful to users.

Retrieval-augmented related work generation. Existing RWG works assume the list of cited papers is available as input, but this assumption is unrealistic, as evidenced by the existence of “missing citations” questions on many conference and journal peer review forms. [Li and Ouyang2024] reported that several human judges expressed the desire for a system that would not only help them draft a RWS, but also alert them to any other relevant papers they should consider citing. Given the recent success and popularity of retrieval-augmented generation (RAG) approaches [Lewis et al.2020, Shuster et al.2021], applying RAG to RWG is a promising direction for future RWG research. Future works may start with a partial list of works that should definitely be cited, alongside a set of candidate works that might be related. They could then use RAG to iteratively select a candidate paper and gen-

erate its transition/citation sentences. This functionality is crucial because RWG systems are much less practically useful without the ability to search for additional related works.

Transition sentences and writing style. Based on the terms from general summarization [Klavans et al.2001], [Hoang and Kan2010] distinguished informative sentences, which “give detail on a specific aspect of the problem... definitions, purpose or application of the topic”, and indicative sentences, which “make the topic transition explicit and rhetorically sound”. However, modern abstractive approaches have focused on informative sentences: single citation generation approaches completely ignore indicative transition sentences, and section-level approaches include them only in that they are part of the target paragraphs. [Li and Ouyang2024] found that human readers asked for more transition sentences, complaining about RWS that simply concatenated one cited paper summary after another. Further, in their analysis of RWS writing style and citation clusters, [Martin-Boyle et al.2024] have shown that generated RWS do not draw enough connections among cited papers. Thus, the generation of transition sentences and multi-paper citations remains an open problem. Where existing works have often explicitly excluded multi-paper citations, future works should explicitly target them. Similarly, the distinction between the reference-style citations [Li et al.2022], which are more like extreme summarization, and the dominant-style citations that current models tend to produce, should be accounted for; future works can use different models for these two very different citation styles.

6.3 Ethical Concerns

Finally, we discuss three ethical issues related to the RWG task. First, abstractive RWG works must be concerned with the problems of plagiarism and factual errors. In extractive approaches, the generated RWS is by its very nature plagiarized, since its sentences are copied directly from the cited papers; it was presumably well-understood by extractive RWG researchers that their systems could never be used to directly write the RWS for a new paper. However, extractive approaches cannot hallucinate, so their outputs are less likely to contain factual errors about the cited papers.

With modern abstractive RWG, the situation is muddier. It is well-known in general summarization research that abstractive models can still copy significant chunks of text directly from their inputs [Grusky et al.2018, Narayan et al.2018], and factual consistency in summarization is an active research area [Cao et al.2018, Goodrich et al.2019, Falke et al.2019, Kryscinski et al.2019]. Thus, it is possible for an abstrac-

tive RWG system to output plagiarized or hallucinated text, which should be of concern to any user who wishes to use such a system to write an RWS.

Second, the use of RWG to write an RWS for a paper one intends to submit for publication raises questions of academic dishonesty. Is it ethical for a researcher to put an automatically generated RWS in a submitted manuscript? Does this mean the researcher is claiming to have written that RWS, as they presumably wrote the rest of the paper? Do the answers to these questions change if the researcher has edited the automatically generated RWS? As with many concerns relating to the use of powerful modern LLMs, these questions are very new, and there is as yet no consensus among the scientific community on how to answer them. While automatically generated RWS are currently easy to recognize, we nonetheless urge caution on the part of RWG researchers and users.

Third, RWG is a challenging task even for humans; in many doctoral programs, writing a formal literature review is part of their candidacy qualifying exams [Knopf2006]. Thus, the process of writing an RWS may be considered an important process for researchers where they must read broadly and think deeply about how their contributions fit into the bigger picture of their field. Some RWG works have argued that writing an RWS is arduous and time-consuming, and so RWG should save researchers from having to do it, but we argue this position ignores the value of RWS writing as a learning and thinking experience. We urge RWG researchers to consider human-in-the-loop frameworks, following [Gu and Hahnloser2023, Li and Ouyang2024, Martin-Boyle et al.2024].

6.4 Limitations of this Survey

There is currently a surge of interest in RWG, so new papers are being published that may not be included in this survey.

Due to the length limit, we are not able to give a detailed discussion of each work’s methodology and implementation. We include cheat sheets in Appendix A to summarize the surveyed works from various perspectives. We also do not compare the specific performance scores of the surveyed works because they are generally not directly comparable.

As with any survey paper, the opinions and interpretations are ours and may not reflect what the authors of the surveyed papers believe about their own work.

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A Appendix

Prior Work	Inputs
Hoang and Kan (2010)	Topic hierarchy tree of the target related work, full cited papers
Hu and Wan (2014)	Target paper (abstract, introduction), cited papers (abstract, introduction, related work, conclusion)
Wang et al. (2018)	Full-texts of cited papers
Chen and Zhuge (2019)	Title, abstract, introduction, and conclusion for both target paper and cited papers; papers that co-cite the cited papers
Wang et al. (2019)	Full papers of target paper and cited papers, citation sentences that co-citing the cited papers
Deng et al. (2021)	Abstract or conclusion sections of the cited papers

Table 4: A summary of the problem formulations of the prior works on extractive related work generation. All of their generation targets are a sequence of extracted sentences.

Prior Work	Inputs	Target
AbuRa'ed et al. (2020)	Cited title, abstract	Citation sentence w/ single reference
Xing et al. (2020)	Context sentences, single cited abstract	Citation sentence w/ single reference
Ge et al. (2021)	Citation network, single cited abstract, context sentences	Citation sentence, citation function, salient sentence in cited abstracts
Luu et al. (2021)	Intro of the citing paper, named entities of the cited papers	Citation sentence w/ single reference
Li et al. (2022)	Context sentences w/o the target span, 1+ cited abstracts	Citation span w/ 1+ citations
Jung et al. (2022)	Abstract or title of the citing paper, cited abstract, citation intent	1+ citation sentences with single citation
Li et al. (2023)	Context sentences w/o the target span, 1+ cited abstracts	Citation span w/ 1+ citations
Gu and Hahnloser (2023)	Title, abstract of the target paper & cited paper; citation text, citation intent, keywords	Citation sentence with presumably single citation
Mandal et al. (2024)	Context sentences w/o the target span, 1+ cited abstracts	Context sentences w/ the target span w/ 1+ citations
Chen et al. (2021)	Cited abstracts	A paragraph w/ 2+ citations
Chen et al. (2022)	Target abstract, cited abstracts	A paragraph w/ 2+ citations
Liu et al. (2023)	Cited abstracts	Related work paragraph
Li and Ouyang (2024)	Main idea of the RWS, title, abstract, intro, conclusion of the target paper, full text of cited papers	1+ paragraphs of RWS
Martin-Boyle et al. (2024)	Target paper w/o RWS, and abstracts of the cited papers	RWS

Table 5: A summary of the problem formulations of the prior works on neural network-based related work generation. "Context" refers to those sentences or paragraphs around the target citation sentences.