



From the ‘Best of Our Knowledge’ to the ‘Best Available Knowledge’^{*,†}

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Abstract

To trust in science, both researchers and the public must be able to trace claims to their origins. Traditionally, scholars have relied on each other to disclose their use of prior ideas, concepts, and findings through citations. But the current practice of modern research pressures researchers to spend less time studying, learning, and reviewing the literature. Worse still, competition for recognition and advancement in professional careers tempts some authors to avoid citing potential rivals. The term *dismissive literature review* describes a review of the literature for a given topic in which the claim is made that no answer to a question or solution to a problem exists. We explain here the important distinction between a dismissive literature review, in which the author makes such claims due to insufficient search, and a *ghosting literature review*, in which the author knowingly suppresses others’ work and refuses to cite it. Better knowledge engineering, especially repositories of resource metadata with semantic markup that supports more explainable search algorithms, can help to prevent dismissive literature reviews by directing researchers to relevant information available in cross-disciplinary libraries. However, detecting and remediating ghosting reviews will require both software tools and community commitment to communication and cooperation. In this work, we review the tools that the PORTAL-DOORS Project has developed to help researchers, reviewers, editors, and readers to assess whether authors acknowledge others’ contributions in the historical record of published literature. We then call for scholarly communities to build interlinked repositories not only for scientific data and bibliographic metadata, but also for the social relationships that illuminate the interpersonal context of submissions, publications, and the potential incentives to uphold or violate other researchers’ and the public’s trust in science.

Keyphrases

Data stewardship, metadata management, knowledge engineering, research ethics, citational justice.

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Deficient reviews of published literature

Dismissive reviews

Primary research articles typically place the novel results that they present in the wider context of a given field by citing, summarizing, and discussing related prior literature (Steward 2004). However, many articles instead assure the reader that no prior research on a given topic exists, a practice for which Phelps (2012) coined the term *dismissive literature review*. The same article defines a *firstness claim* as “a particular type of dismissive review in which a researcher insists that he is the first to study a topic.” Phelps (2012) argued that false dismissive reviews dissuade readers from looking more deeply into the history of a topic, thereby diminishing the impact of potentially valuable literature. As an example on a specific topic, Phelps (2012) presented several articles by prominent figures in education policy that wrongly insisted little to no information was available on the impact of academic standards and policies on outcomes, all of which appeared shortly prior to the passage of the No Child Left Behind Act in the United States.

Ghosting reviews

While Phelps (2012) defined dismissive literature reviews in terms of behavior that results in absences and omissions, it is useful to draw a distinction between actual and feigned ignorance of the historical record of published literature. The former is correctable, while the latter is likely to reoccur no matter how often others attempt to correct

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Table 1: Distinctions among valid firstness claims, dismissive literature reviews, and ghosting literature reviews.

| Scope of work | Authors aware of prior work? | |
|------------------|--------------------------------|----------------------------|
| | No | Yes |
| Firstness claim | Multiple independent discovery | Idea plagiarism |
| History of field | Dismissive literature review | Ghosting literature review |

the scholarly record by alerting the authors and journal editors to the presence of prior published work that renders false the wrongful claim of novelty. The term *dismissive literature review* includes cases when authors fail to search for prior work that introduces the same ideas or answers the same questions as their own and then use their pretextual lack of awareness as the basis for claiming novelty (Phelps 2012). In this context, common phrases such as “to the best of our knowledge, no prior work has...” are examples of the *appeal-to-ignorance* fallacy: We do not know of any prior work answering the same question that ours does, so no such work exists (Walton 2010). Inappropriate use of this appeal-to-ignorance fallacy should be prevented by editors requiring authors to report explicitly both the queries and the database repositories searched before accepting claims of no prior literature.

We define here the term *ghosting literature review* to describe the case where authors are cognizant that a topic does have prior work published answering a question and solving a problem, but then intentionally suppress that history and refuse to cite it in order to make their own work seem novel or more impactful. See Figure 1 for a visual representation of this definition as a decision tree for deciding whether a ghosting claim is made within a ghosting literature review. We choose to use the word *ghosting* to draw an analogy with the social phenomenon of ghosting by one person or party of another, in which social interaction occurred in the past but then one party severs relations with the other without warning, explanation, or communication (Teichert 2025). In this situation, one party intentionally acts as if the other does not exist.

We summarize the similarities and differences between ghosting literature reviews and three related concepts in Table 1. All four are situations in which authors wrongfully claim to present a novel idea. The key distinctions among them are whether the authors are aware that their firstness claim is incorrect and whether their novelty claim ignores the existence of an isolated report of an individual research result or a much larger body of literature with the history of the topic spanning decades.

The least similar to a ghosting literature review is multiple discovery, also known as simultaneous invention or any of several other terms, depending on the kind of research output reported (Ione 1999). The discovery or invention need not be strictly simultaneous, but the latter instance must occur independently, without knowledge of the former (Plantec et al. 2025). Such cases have remained a perennial subject of interest to scholars of the history of science and engineering from the early 20th century (Rossman 1930) to the present day (Héraud and Popiolek 2024) due to their potential implications for the roles of individual insight, chance, and larger societal context in innovation (Merton 1961; Simonton 1979; Voss 1984).

When authors do know of prior instances of a research result but present it as their own novel contribution, they commit idea plagiarism

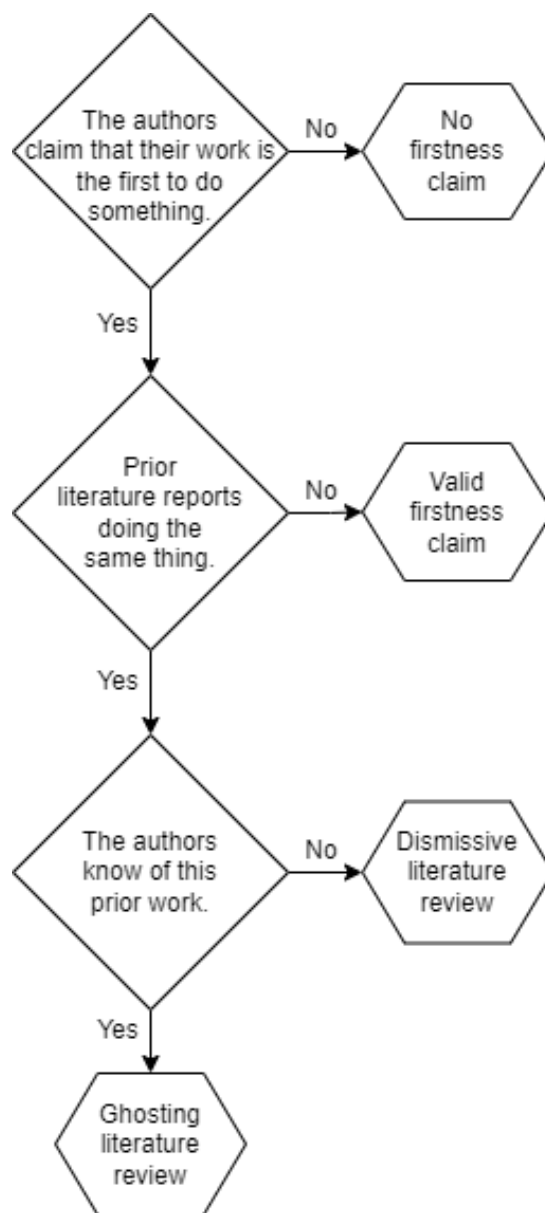


Figure 1: Decision tree for distinguishing among valid firstness claims, dismissive literature reviews, and ghosting literature reviews.

(Weyland 2007). If the false firstness claim is part of a larger pattern of obfuscation and refusal to correct the scientific record when confronted with evidence of prior work, it is not merely idea plagiarism but intentional idea-laundering plagiarism and represents a purposeful effort to erase the original discoverers’ or inventors’ identities from history (S. K. Taswell, Triggle, et al. 2020).

Phelps (2010) argued that dismissive literature reviews do even more damage to the scientific community’s collective understanding by denying the existence of not just a single report but an entire branch of research. Furthermore, the wider scope of ignorance required to remain oblivious to a larger body of work represents a more severe failure to study the problem domain and makes claims of unintentional omission less plausible and intentional erasure more likely. While this observation remains true regardless of whether the authors were aware that their the firstness claim was false, distinguishing a ghosting literature review from a merely dismissive one reflects a meaningful difference in

intent and purpose. Whereas a wrongly dismissive literature review is mis-information with false information spread as a result of a deficient literature search, a ghosting review is dis-information with intentional dissemination of a falsehood and misrepresentation of readily available published literature (S. K. Taswell, Athreya, et al. 2021; Lecheler and Egelhofer 2022).

One can draw additional distinctions beyond mis-information versus dis-information to classify information based on how authors respond when asked to correct mistakes about omissions. Mis-information and dis-information adequately cover the cases where authors correct mistakes, while refusal to address concerns escalates mis-information to anti-information and dis-information to caco-information (S. K. Taswell, Athreya, et al. 2021). Analogously, after the publication of the dismissive or ghosting literature review, a refusal to publish a correction when others have called the existence of relevant prior work to the authors' attention escalates the severity of the issue. Such cases call for additional terms, such as *literature anti-review* for a dismissive review that the authors refuse to correct and *literature caco-review* for a ghosting review that the authors refuse to correct.

Software from the PORTAL-DOORS Project

NPDS Cyberinfrastructure

Since publication of the first report related to the PORTAL-DOORS Project (PDP) in 2006 (C. Taswell et al. 2006), one of the goals has been to help authors identify relevant prior work. An important motivating example problem has been to support automated meta-analyses through publication of semantic descriptions of primary research articles and related resources in such a way that automated reasoning engines could identify the hypothesis being tested and the result of the test (C. Taswell 2007). These efforts have centered on the development of the Nexus-PORTAL-DOORS-Scribe (NPDS) cyberinfrastructure, originally envisioned as a messaging protocol and web API that would allow independent implementations of data and rich metadata management through a separate web service for conventional lexical metadata, the Problem-Oriented Registry of Tags And Labels (PORTAL), and for semantic descriptions, the Domain Ontology-Oriented Resource System (C. Taswell 2007). Subsequent updates have led to the inclusion of the Nexus diristry (ie, a combined registry-directory) as a semantic-lexical hybrid repository, and the Scribe registrar as a read-write service, separate from the original PORTAL and DOORS services (C. Taswell 2010a; Craig, S. H. Bae, et al. 2016). In contrast to the concentration of web traffic on some search platforms with power controlled by a few large companies, the NPDS Cyberinfrastructure has been designed as a democratized and distributed system that can support individuals and organizations to establish their own independent repositories of both human- and machine-readable information shared across institutional and disciplinary boundaries (Athreya, Craig, et al. 2023).

While the ideas of a peer-to-peer distributed network for managing semantic web resources (Schlosser et al. 2002) and infrastructure for producing explainable answers to questions using semantic markup (McGuinness and Da Silva 2003) preceded C. Taswell (2007), implementation of NPDS with a network of repositories has been the first framework to materialize the complete collection of design principles (C. Taswell 2007; Craig, Ambati, et al. 2019a) and has remained relevant for nearly 20 years amid major changes in internet communications. Many of the most successful projects in search infrastructure development focus on data sharing within a specific discipline. Some notable

examples include the UniProt database, which integrates structural and functional information to facilitate large-scale proteomics (Jain et al. 2009), xWCPS, which combines the XQuery and the Web Coverage Processing Service standards to manage Earth science data (Liakos et al. 2015), and the Data Storage for Computation and Integration platform, which mainly facilitates collaborative research in dentistry (Brosset et al. 2021). One specific application area that has received attention from multiple projects is management of spatial location data due to its wide range of applications from environmental research (Li et al. 2011) to commercial Internet of Things uses (Trifa et al. 2011). This approach stands in contrast to NPDS, which has always emphasized cross-disciplinary applicability to multiple problem domains and supported representation of both online virtual and offline physical locations (C. Taswell 2007). BHA collaborators have studied the application of NPDS to a wide variety of problems, including tracking provenance of cultural artifacts (Athreya, S. K. Taswell, et al. 2021), comparing hypotheses about neurodegenerative diseases (Skarzynski et al. 2015a), and clinical telegaming (Gu and C. Taswell 2017). Some other works, such as (Ceri et al. 2011), have proposed abstract architectures for solving cross-domain search problems but have not taken concrete steps to build the necessary infrastructure.

In other cases, national governments have taken action to provide a common search infrastructure, but these systems inherently rely on centralized control, as with Finland's FinnONTO (Hyvönen et al. 2008) and the China National Knowledge Infrastructure (Ma et al. 2016). These approaches also differ from the PDP vision for NPDS of fostering communication and collaboration among independent institutions, which may participate in supporting use of a shared REST API and messaging protocol (Athreya, Craig, et al. 2023). More recent attempts at novel approaches for search often focus on scalable search within a large centralized collection of data for machine learning, as in the case of ScienceSearch (Orhean et al. 2022). Similarly, many reviews, such as Peek et al. (2014) that seek to identify the remaining shortcomings of existing approaches, emphasize challenges due to the sheer amount of data or biases inherent in the data without discussing the socio-technical problem of fostering curation of rich and mutually intelligible metadata from numerous contributors. However, Polleres et al. (2026) argue that, while semantic web services and agentic AI set out to solve many of the same problems, both have encountered key barriers to progress due to lack of shared terminology between services and poor discoverability of resources.

Lewandowski (2019) identified the lack of an open web index as a key shortcoming of modern web infrastructure that hinders discoverability, even though NPDS repositories could serve such a function effectively if sufficiently well-populated and frequently updated with online resources. However, the labor-intensive nature of creating and updating quality metadata that reflects the true content of a resource remains one of the key barriers to populating large repositories of semantically rich records (Hitzler 2021). Attempts to automatically generate semantic markup from natural language text have achieved some success but are still computationally intensive and less accurate than human understanding of the meaning of text (Regino et al. 2026). At the same time, advances in web-scale crawling and data extraction, as illustrated by Dlugolinsky et al. (2012), have the potential to bridge this gap but lack integration with any larger data management infrastructure.

This summary suggests that our work with the PDP for NPDS (C. Taswell 2007) remains unique as a multi-domain semantic-lexical hybrid data and metadata management system for the open web, but also

that many of the same challenges to building the infrastructure in 2007 persist to the present and continue to slow progress. While the core protocols and APIs have stabilized, Brain Health Alliance (BHA) continues to release updated versions of the free, open-source reference implementation of the NPDS server software and record curation web application annually (github.com/BHAVIUS/PORTALDOORS) and hosts NPDS record repositories at portaldoors.net, brainhealthalliance.net, and telegenetics.net.

DREAM Principles Ontology

To support the production of semantic markup that can facilitate the discovery of relevant prior work, BHA has developed several formal ontologies related to domains including nuclear medicine (C. Taswell et al. 2006), clinical telegaming (C. Taswell 2010b), and progressive neurodegenerative diseases (Skarzynski et al. 2015b). Additionally, to allow the NPDS cyberinfrastructure to better serve its role as a bridge between the semantic and lexical webs, BHA has introduced an NPDS ontology to provide a clear path for translation of lexical metadata into semantic descriptions (Craig, S.-H. Bae, et al. 2017). The most comprehensive formal ontology that BHA has developed is the DREAM Ontology, which codifies the collection of guiding design principles from PDP, the Discoverable Data with Reproducible Results for Equivalent Entities with Accessible Attributes and Manageable Metadata (DREAM), and serves as a foundational ontology for more specialized modules (Craig and C. Taswell 2021). For example, the PDP Contributor Roles module provides ontology classes and properties for recording roles in a format compatible with the Contributor Role Taxonomy (Craig and C. Taswell 2023).

Other ontologies relevant to the PDP-DREAM Ontology have represented design and engineering principles, including Sim and Duffy (2003) and Štorga et al. (2010). Additionally, a broad class of general-purpose foundational ontologies seek to express formally core concepts relevant to all or most problem domains, such as *time interval* or *physical object* (Borgo et al. 2022). The key distinction is that the DREAM Principles Ontology focuses on concepts and design principles relevant to data and metadata management itself, making its scope more manageable than that of a universal foundational or design principle-oriented ontology (Craig and C. Taswell 2021). If a use-case requires more wide-ranging semantic reasoning or detailed markup describing resources relevant to a specific problem, users can still use NPDS software to manage semantic descriptions with any desired foundational or domain ontology (C. Taswell 2007).

FAIR Metrics Ontology

BHA has previously called not only for open peer review but also for reproducible peer review, an approach in which reviewers make clear the sources of the factual claims they are using to support their recommendations so that an independent reviewer can evaluate the sources and claims, follow the same line of reasoning, and arrive at the same conclusion (Craig, Lee, et al. 2022). BHA is working to put these principles into practice in its own Brain Imaging, Information, And Computing, Communications Sciences open-access *Brainiacs Journal* started in 2020, now in its seventh year of publishing. Central to this effort is the need to quantify how accurately authors present novel claims as novel and attribute preexisting claims to their sources. While numerous tools for plagiarism detection exist, some of which may be able to detect idea plagiarism even when obfuscated with paraphrasing (Gipp, Meuschke, and Beel 2011; Naik et al. 2015; Foltýnek et al. 2019),

the results of any single evaluation are less important than the clear presentation of the reasoning behind evaluations. To support a more quantitative, systematic approach to evaluation, BHA has developed the Fair Attribution to Indexed Reports (FAIR) Metrics (Craig and C. Taswell 2018; Craig, Ambati, et al. 2019b). Evaluating a report according to the first family of FAIR Metrics involves identifying its substantive claims and categorizing them as either correctly attributed to a prior work, misattributed, correctly presented as novel, or presented as novel but plagiarized from prior work, counting the number in each category, and computing ratios derived from these counts (Craig, Athreya, et al. 2023). The second family of FAIR Metrics supports meta-reviews of peer reviews by calling for the classification of the factual claims the reviewer uses to support their recommendation based on whether they relate to the work under review, the venue of publication, or outside domain knowledge and then according to whether or not the reviewer cites an appropriate source for the claim (Craig and C. Taswell 2024). BHA also provides ontology modules for recording the evaluation process, including assertions of equivalence between claims in the report under review and prior reports (Craig, Athreya, et al. 2023; Craig and C. Taswell 2024). See [/nexus/fidentinus/wilkinson2016fgpsdms](#) for an example of a Nexus record with a semantic description of a FAIR Metrics evaluation of an article and [/nexus/fidentinus/submission1review1](#) for an example FAIR Metrics evaluation of a peer review.

In Craig and C. Taswell (2023), we compared the FAIR Metrics evaluations to other approaches for plagiarism detection. To summarize, the FAIR Metrics are distinctive in both their focus on semantic equivalence of the ideas conveyed rather than lexical similarity, and also, the semantic representation framework that allows scrutiny and improvement of the analysis. Two of the leading lexical-similarity-based plagiarism detection software tools, iThenticate for scholarly publications and Turnitin (Young 2023) for student assignments, were only partially successful at detecting plagiarizing reports generated with ChatGPT, giving similarity scores from 0% to 68% (Khalil and Er 2023). This poor result demonstrates the need for new approaches. Support vector machines and deep learning classifiers can detect plagiarism obfuscated through paraphrasing more effectively than do simple lexical similarity measures (Altheneyan and Menai 2020), but these approaches lack interpretability. However, new machine-learning based tools intended to distinguish human writing from AI-enabled plagiarism, such as the OpenAI text classifier (Kirchner et al. 2023), Copyleaks (Copyleaks 2023), and GPTZero (GPTZero 2023), have even less transparency, rely on costly large language model technology, and do not address human-written plagiarism.

More broadly, one can classify plagiarism detection methods as lexical, structural, semantic, stylometric, syntactic, citation, or cross-language-focused, each of which has distinct strengths and weaknesses (Jiffriya et al. 2021). While our work on the FAIR Metrics so far has relied on a human reviewer to identify claims with equivalent meaning (Craig, Athreya, et al. 2023; Craig and C. Taswell 2024), the FAIR Metrics analysis framework also allows for use of automated agents to search the literature for prior work from which a work under review may have plagiarized. Semantic similarity detection methods, such as those from Eisa et al. (2020) and Javadi-Moghaddam et al. (2022), may be especially valuable for their ability to identify specific pairs of passages in the new and prior work that have similar meaning. Ideally, publishers should be able to apply automated agents to survey and detect potentially equivalent claims from a larger pool of prior literature and then recruit human reviewers to judge the accuracy of the matches

and recommend other matches based on their own knowledge.

Socially aware knowledge engineering

Social influence and ethical behavior

The standards to which we hold ourselves reflect not only intrinsic motivations but also our interactions with others. A recent comprehensive meta-analysis found that, while interventions using social comparison to assist people with behavioral changes, such as reducing alcohol consumption or adopting more environmentally sustainable practices, had small effect sizes, the effects were frequently significant, low-cost, and readily scalable (Hoppen et al. 2025). A recent study used a variant of the marshmallow test to illustrate another way social interaction can support self-regulation: Children completed the challenge successfully more often when they had promised a peer that they would wait for the second marshmallow (Koomen et al. 2025). At the same time, social pressure can also induce or reinforce behaviors that harm oneself or others. For example, insular online communities can discourage members from seeking outside connections or life goals (Beckett-Herbert and Shor 2025). Even a single persuasive authority figure can sway people to act in ways they would normally find inappropriate, as illustrated in the Milgram experiments (McLeod 2017).

In the modern age, social media can amplify the reach of calls to action, but the nature of the appeal impacts the result in complex ways. A recent study found that online petitions that invoked moral outrage boosted their virality but not the number of signatures when compared to petitions with similar levels of virality, while appeals to agency, group identity, and prosociality boosted the number of signatures but not the virality of the petitions (Leach et al. 2025). At the same time, large language models have shown the potential to produce arguments that sway human opinion, especially when equipped with information about the person targeted (Salvi et al. 2025). Taken together, these developments suggest that a growing flood of machine-generated propaganda optimized to elicit strong emotions for the sake of virality could eventually replace more productive community-building interactions between humans. As a counterbalance to the often opaque workings of both algorithmic signal-boosting in social media and data-driven content generation by machine learning models, we advocate for the development of decentralized online communities in which members maintain and share their own lexical and semantic metadata records suitable for both human readers and explainable automated inference engines (Athreya, Craig, et al. 2023).

The need for metatextual context in metadata

With respect to use of PDP Software for cross-disciplinary interoperable search supporting meta-analyses and other analyses of the factual claims in scholarly literature, DREAM Principles ontologies and FAIR Metrics analysis workflows have focused on the text of scholarly communications themselves rather than on the social context surrounding them (Craig, Ambati, et al. 2019b; Craig, Athreya, et al. 2023; Craig and C. Taswell 2024). However, distinguishing among mis-information and dis-information hinges on being able to infer whether the propagators of the incorrect information knew that it was incorrect at the time of writing, and distinguishing either of these from anti-information or caco-information requires information about how the propagators responded to attempts to provide correct information (S. K. Taswell, Athreya, et al. 2021). This distinction also applies to the matter of differentiating between dismissive and ghosting literature reviews and differentiating

either from anti-reviews or caco-reviews, as defined above.

In the context of FAIR Metrics analysis, while a high proportion of apparently plagiarized claims suggests the presence of plagiarism, the authors still have plausible deniability in the absence of clear evidence that they were aware of the existence of the work from which they plagiarized. Proving idea-laundering plagiarism, a pattern of behavior defined in (S. K. Taswell, Triggie, et al. 2020) in which authors obfuscate plagiarism and then not only deny having plagiarized, but also refuse to make the correction of omission and to cite the original work, requires a record of the history of interactions among authors of original and plagiarizing reports, editors, institutional ethics boards, and other stakeholders. For example, while a FAIR Metrics analysis found that all of the Findable, Accessible, Interoperable, and Reusable data stewardship principles had appeared previously in the original 2007 PORTAL-DOORS schema report (Craig, Ambati, et al. 2019b; Craig, Athreya, et al. 2023), a more detailed description of the past occasions on which the authors had attended the same conferences and Taswell's attempts to convince Wilkinson et al. co-authors to acknowledge the existence of this similar prior work allows characterization of the Wilkinson et al. FAIR-branded principles published 2016 in *Nature Scientific Data* as idea-laundering plagiarism (C. Taswell 2024).

Incorporating social context into NPDS records

Several ontology engineering efforts have incorporated potentially useful social information into semantic knowledge graphs, some specifically for the purpose of providing social context to scholarly outputs. One of the most widely used formal ontologies is the Friend-of-a-Friend (FOAF) Ontology, which several social media platforms use to manage knowledge graphs incorporating a wide variety of social interaction-relevant information about their users (Shanker 2018). A derived version called FOAF-Academic offers specialized features suitable for tracking collaborations in academia (Kalemi and Martiri 2011). The AcademiS ontology is a purpose-built ontology for tracking collaborations among researchers as an aid to assessing the performance and impact of researchers (Triperina et al. 2013). Additionally, publishers often use the Dublin Core controlled vocabulary to publish bibliographic metadata about research reports in a machine-readable format (Arakaki et al. 2018), which can help identify when authors have published in the same journal or conference proceedings.

While the NPDS Cyberinfrastructure supports use of any desired ontology in semantic descriptions, a key ongoing effort for BHA will be incorporation of social information into FAIR Metrics analyses. A first step will be creation and testing of a new family of FAIR Metrics that takes into account the presence of prior social connections between authors. For example, we can supplement the existing P count of apparently plagiarized claims (Craig, Athreya, et al. 2023) with a separate count P_G of ghosting claims plagiarized from reports presented at conferences attended by the plagiarists and the victim of the plagiarism who has been ghosted. By default for simplicity, we can assume that all other plagiarism counts are considered dismissive claims plagiarism (for which ghosting has not been proven) such that $P_D = P - P_G$, otherwise stated as the total plagiarism claims count, $P = P_D + P_G$, with D and G denoting Dismissive and Ghosting, respectively. However, much work remains in order to gather adequate social network information for test cases, render it in semantic markup, and evaluate the effectiveness of such social context-augmented metrics.

Another area where social context may prove valuable is development of metrics of secondary source plagiarism. Several authors, in-

cluding Abbamonte (2024), Joy et al. (2009), and Maxel (2013), have defined secondary source plagiarism as use of information from a literature review, meta-analysis, textbook, or other secondary source accompanied only by citations of the primary sources that it uses, not the secondary source itself. Taylor (2024) refers to this practice as *bypass plagiarism*, because the plagiarist bypasses citing the secondary source by directly citing the primary sources. The existing FAIR Metrics do not include any measure of secondary plagiarism, and incorporating one into the existing workflow may be challenging due to its emphasis on comparison of individual claims. However, one useful approach will be flagging potential plagiarism through detection of similar sequences of citations in the target and comparison texts (Gipp, Meuschke, and Breitingner 2014), but evidence proving that the author of the apparently plagiarizing work was aware of the prior work and its author will strengthen the argument for plagiarism.

A related open question involves the prevalence of ghosting and dismissive literature reviews. While Phelps (2012) discusses individual examples of dismissive reviews, he does not provide a systematic study of its prevalence. An investigation attempting to answer this question would face similar challenges to those seeking to assess the prevalence of plagiarism. Studies such as those included in the meta-analysis in Pupovac (2021) analyzed large bodies of scientific publications for plagiarism using automated lexical plagiarism detection tools followed by human checking of the detected matches. While independently testing articles is preferable to relying on official notices of retraction, since it provides a consistent and known methodology instead of relying on the varied approaches of the publishers, lexical plagiarism detection tools may still fail to detect paraphrased ideas or claims. Human reviewers can only remedy this problem if they add missed matches in addition to removing false positives.

Here too, the FAIR Metrics provide a framework for a transparent recording of analysis. To detect an instance of a dismissive literature review, we must identify any firstness claim in a work and then find a matching firstness claim in a prior works. Analyzing a representative sample of the scientific literature in this way will require a new FAIR Metrics analysis workflow that incorporates automated tools for detecting potentially equivalent claims. Furthermore, to distinguish dismissive literature reviews from ghosting literature reviews, we will need to define a test of whether the authors of the work under review knew of the prior work. Because scientists can learn of each other's work through multiple channels, a possible solution would be to search for linkages in a multi-level network incorporating collaboration, institutional affiliation, and conference attendance, such as that used for recommending future collaborators in Chen et al. (2025). We plan to address this task in future work.

Conclusion

Ghosting literature reviews represent a violation of the traditional standard of *standing on the shoulders of giants* required for citing, referencing, and discussing previously published work. Furthermore, they represent a threat to the scientific literacy of readers by discouraging them from searching for potentially valuable information that the plagiarizing authors know exists. The NPDS Cyberinfrastructure can support individuals and organizations to host their own searchable repositories and share records through larger collaborative networks, providing alternate pathways by which readers can find works obfuscated by ghosting literature reviews. In particular, the FAIR Metrics module of the DREAM Principles ontology provides classes and proper-

ties useful for representing the key claims of scholarly publications and the equivalence relations between them. However, much work remains to build the collections of such semantic descriptions needed to address the problem of plagiarism on a larger scale. Such efforts will require input from a wide variety of stakeholders from many disciplines and fields, as well as adoption and use of the distributed network of repositories by the institutions that employ researchers and the organizations that fund research.

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