Ensuring Research Integrity before publication

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TECHNOLOGIES

Why we should catch problems early

- Retractions are not good for publishers
  - Nor for authors, institutions, or funders
- So we want to catch problems at submission
  - and before peer review

What to look for

Authors

- Do they exist?
- Previous retractions
- Frequency of publications
- Do co-authors match expertise
- Topics of previous publications

Affiliations

- Do they exist?
- What is annual work output?
- Number of retractions

Text body

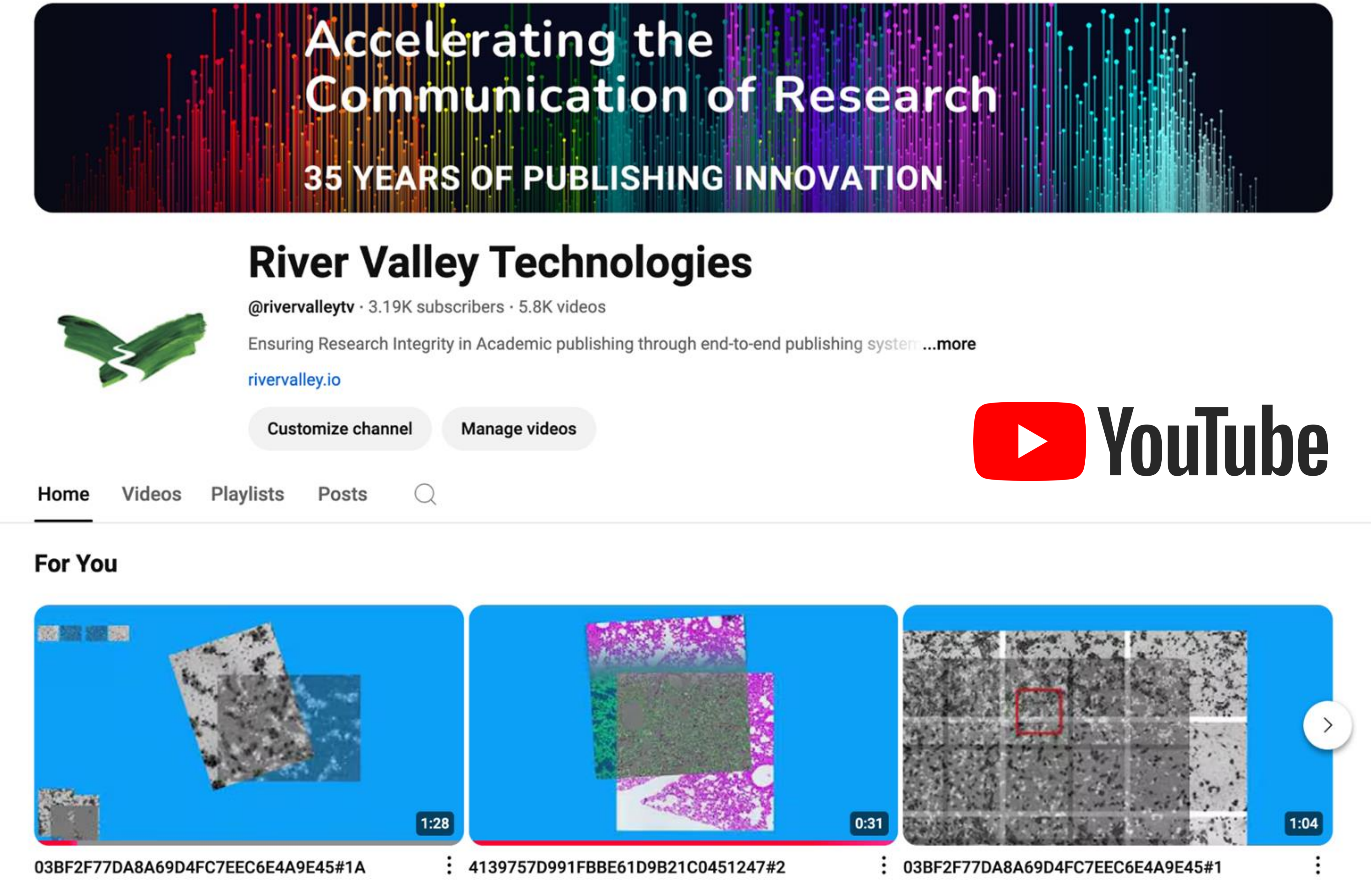
- Plagiarism
- Tortured phrases
- Missing citations to references

References

- Any retracted?
- Refs citing other retracted references?
- Are references relevant to article?
- High level of citation to one author
- Too high or too low self-citations

Images

- Duplications within & across articles
- Manipulations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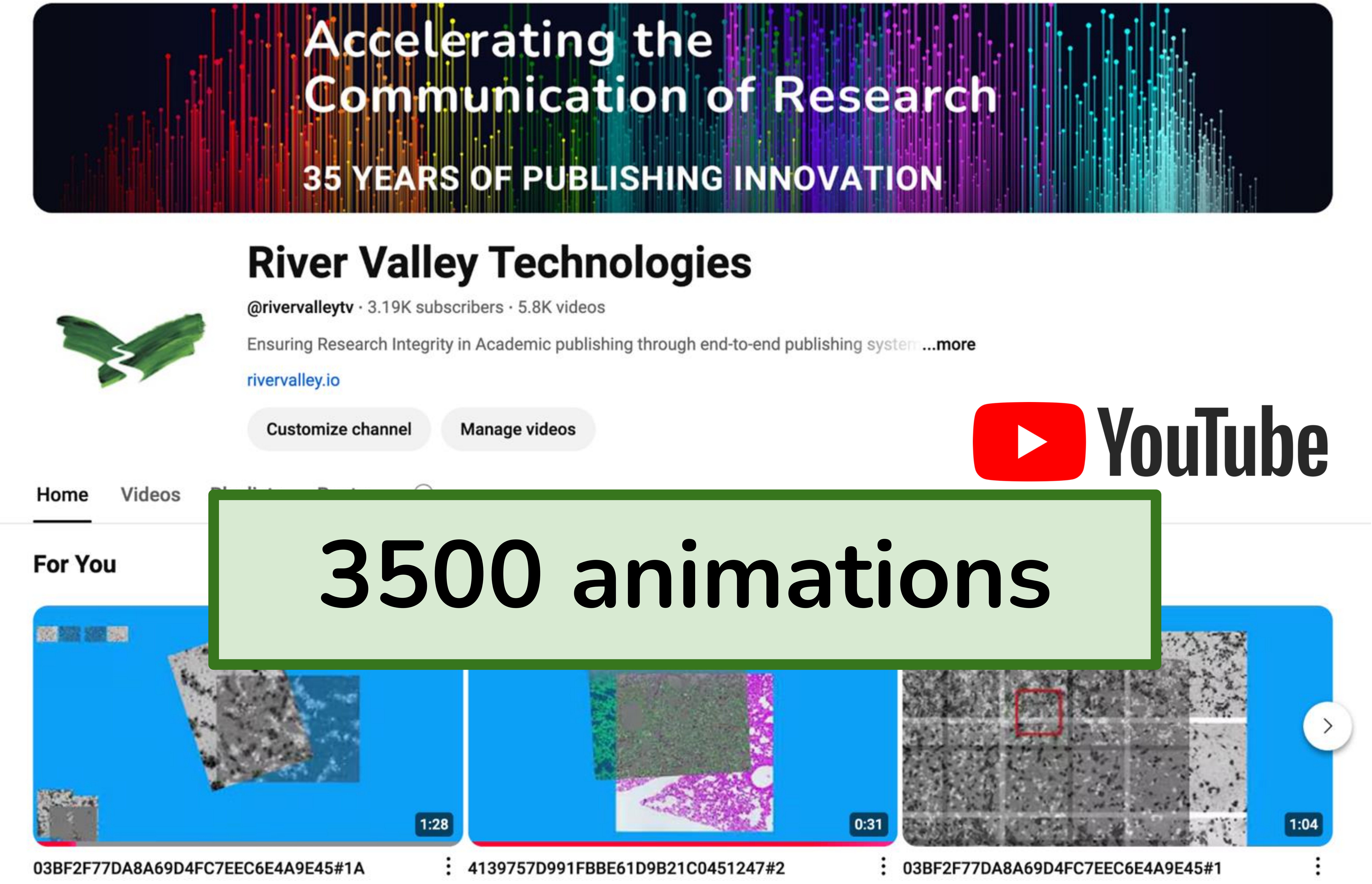

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River Valley's advantages

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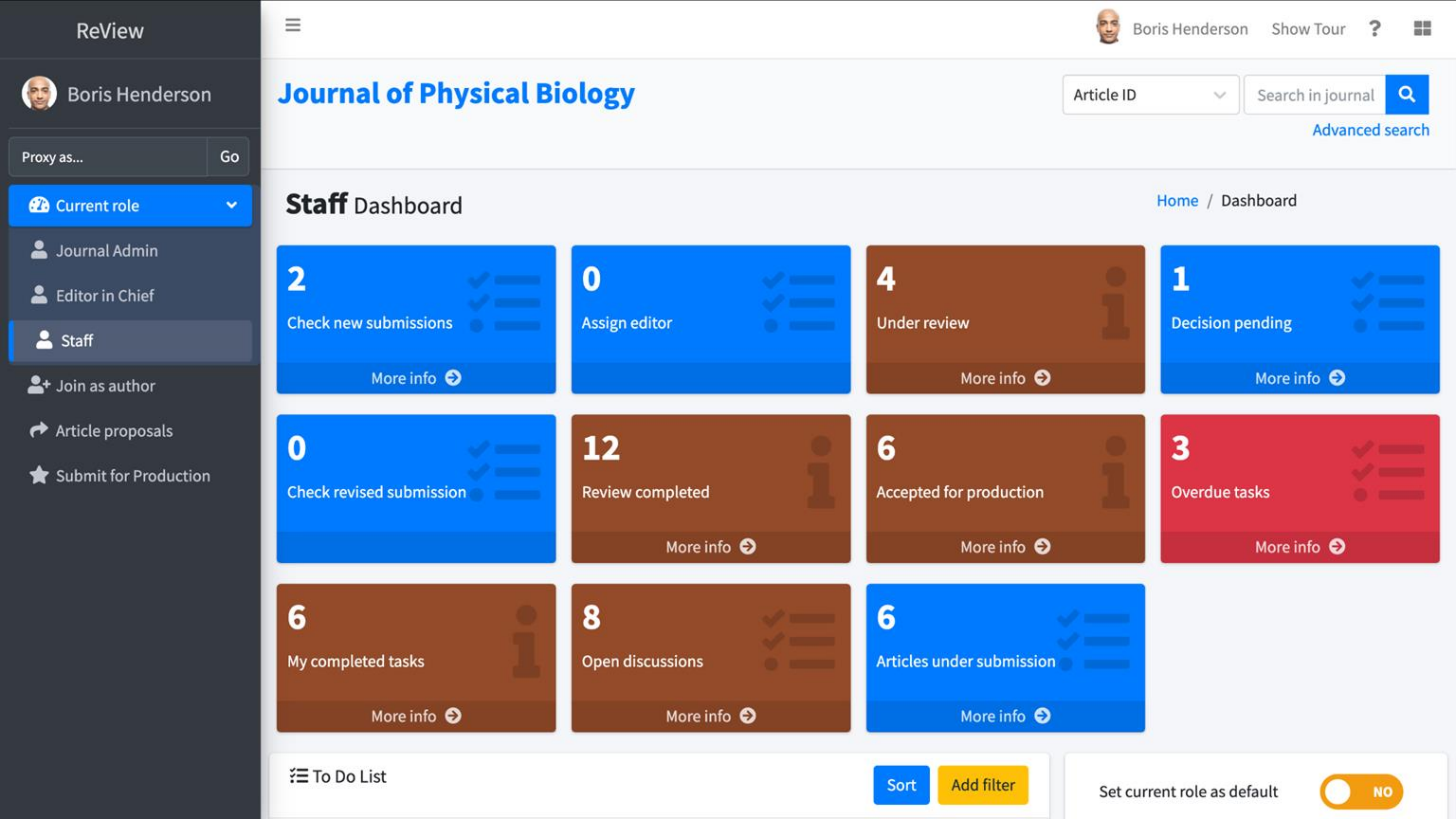
  - …we know content, inc. complex STM
- Award winning, submission platform
  - ISMTE innovation award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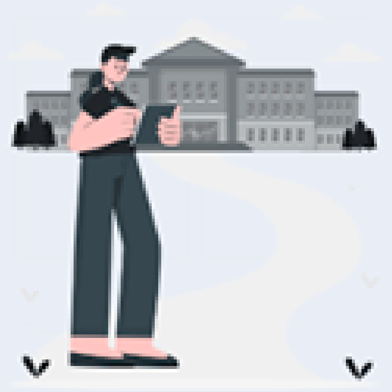

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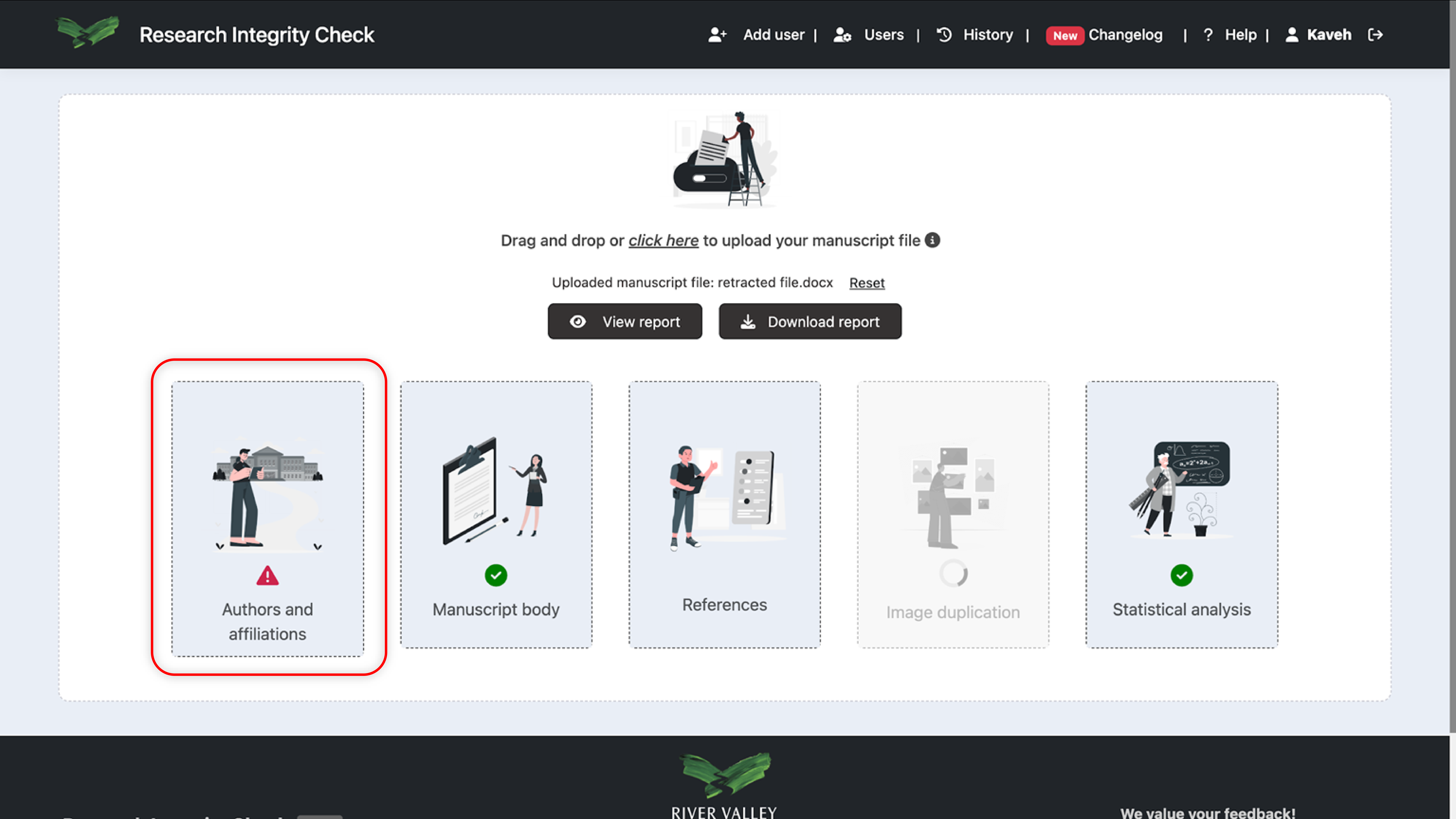
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Email Address: mc[redacted])gmal.com

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Arba Minch, Ethiopia

Type: Education

Retracted Articles : 10

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10.1080/03772063.2023.2262829 10.1080/03772063.2023.2262892
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Retractions detected

Security and Communication Networks

Forward Series

Retraction | Open Access

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This article retracts the following:

Security and Communication Networks

https://doi.org/10.1155/2024/9796165

First published: 09 January 2024 |

This article is part of Special Issue: Security Hardened and Privacy Preserved Vehicle-to-Everything (V2X) Communication 2021

This article has been retracted by Hindawi, as publisher, following an investigation undertaken by the publisher [1]. This investigation has uncovered evidence of systematic manipulation of the publication and peer-review process. We cannot, therefore, vouch for the reliability or integrity of this article. Please note that this notice is intended solely to alert readers that the peer-review process of this article has been compromised.

Wiley and Hindawi regret that the usual quality checks did not identify these issues before publication and have since put additional measures in place to safeguard research integrity.

Security and Communication Networks

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References Related Information

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First published: 09 January 2024 |

1 comment on PubPeer (by: Celastrus Subspicatus)

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#1 ***Celastrus subspicatus*** comment accepted March 2024

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We wish to credit our Research Integrity and Research Publishing teams and anonymous and named external researchers and research integrity experts for contributing to this investigation.

The corresponding author, as the representative of all authors, has been given the opportunity to register their agreement or disagreement to this retraction. We have kept a record of any response received.

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Mol[illegible]z

Alternate names

M. [illegible]

Previous institution

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h-index: 35

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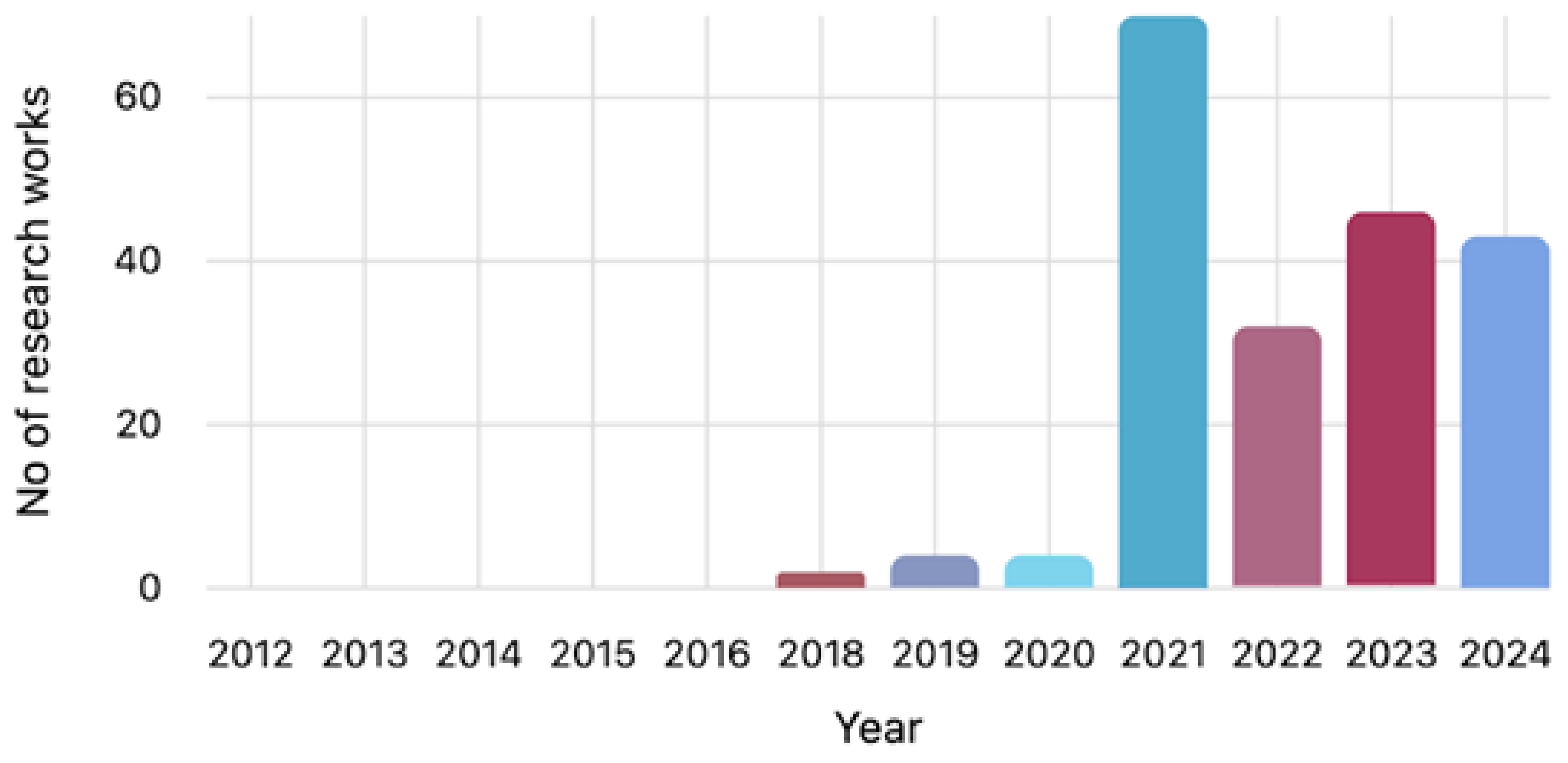

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Type: education
Years: [2024, 2021]

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ROR: https://ror.org/00ssp9h11
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Mohammad Shabaz

Alternate names

M. Shabaz, Mohammad Shabaz

Previous institution

Institution: Indian Institute of Technology Jammu (IN)
Type: education

Summary Stats

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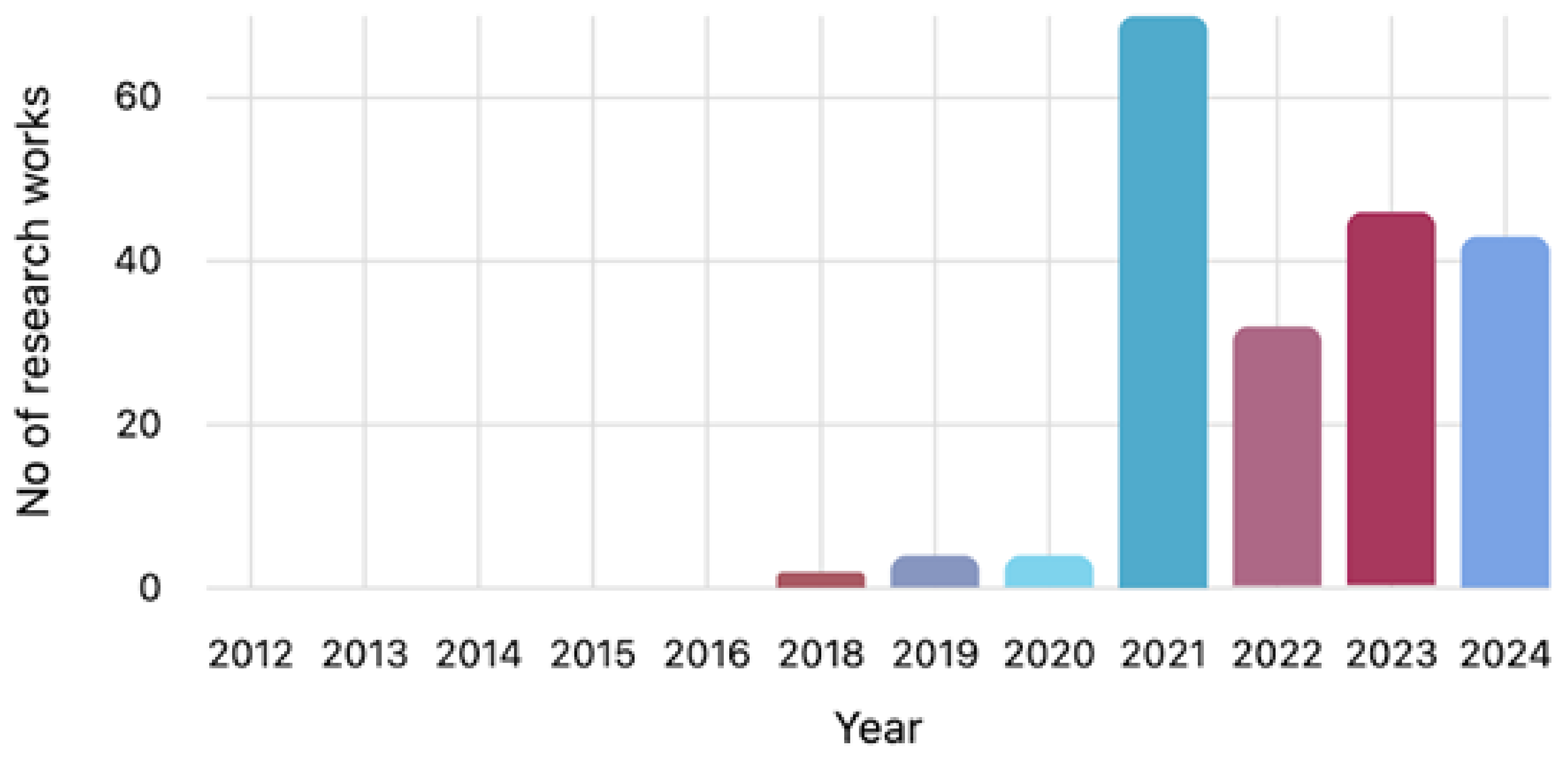

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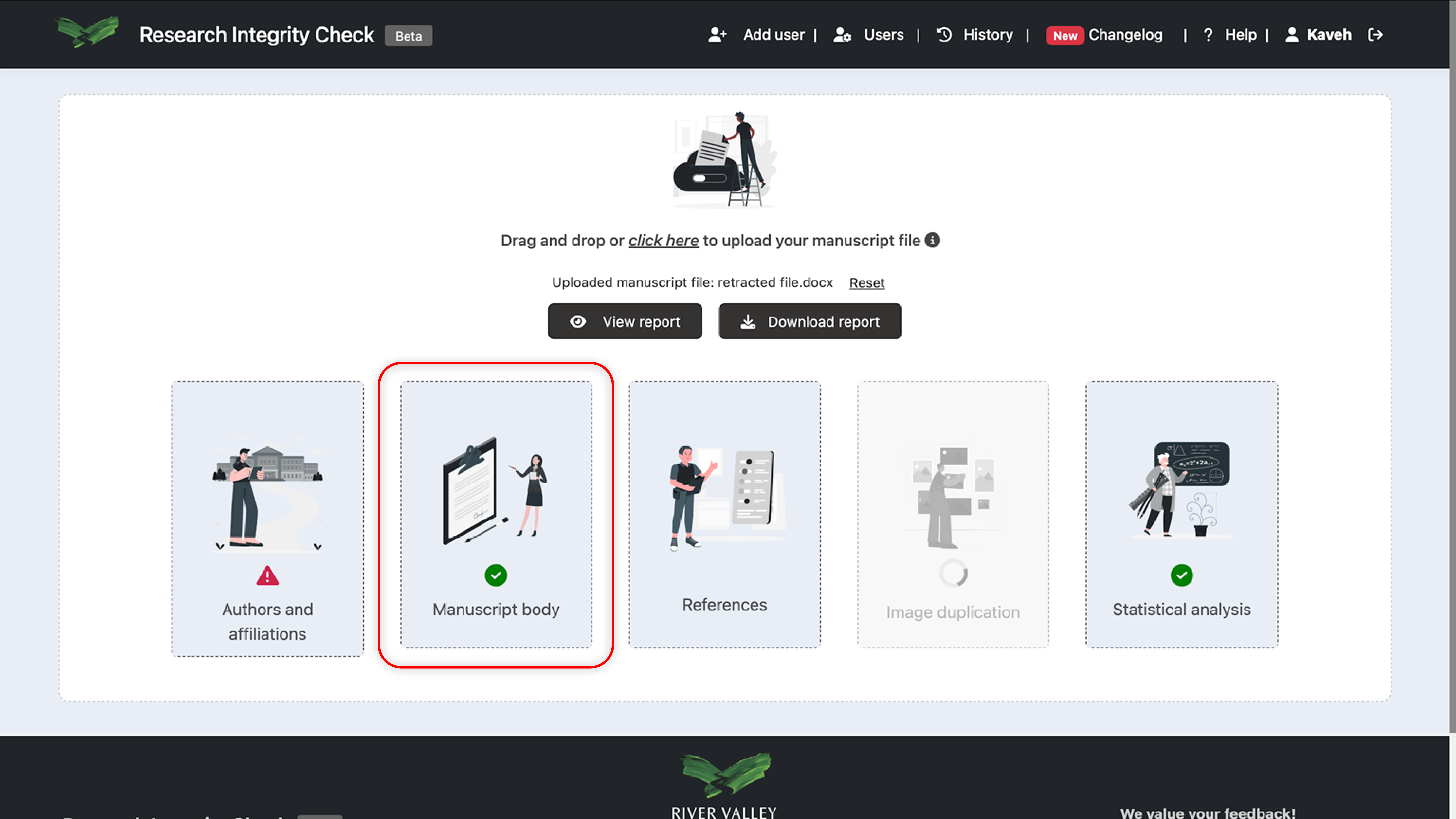
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Overview | AI usage | Tortured phrases

Keywords Missing

KB Blockchain and IPFS Integrated Framework in Bilevel Fog-Cloud Network for Security and Privacy of IoMT Devices

Preksha Sharma [1], Surbhi Gupta [1], Sonali Vyas [2], Mohammad Shabaz [3], Wei Zhang [4]

[1] Model Institute of Engineering and Technology, Jammu, J&K, India

[2] University of Petroleum and Energy Studies, Dehradun, India

[3] Arba Minch University, Arba Minch, Ethiopia

[4] Hebei University of Technology, Tianjin , China

Correspondence: Dr Mohammad Shabaz, Arba Minch University, Arba Minch, Ethiopia. Email: mohammad.shabaz@gmal.com

Abstract

In recent years, object detection has garnered significant academic attention due to its close association with video analysis and image interpretation. With the rapid advancement of deep learning, more robust tools capable of learning semantic, high-level, and intricate features have emerged to overcome challenges posed by traditional architectures. These models exhibit variations in network design, training methodology, optimization functions, and other factors. This

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Tortured phrases

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profound neural organizations	deep neural networks	4
Total		**4**

these discriminant local feature descriptors and shallow learn-able architectures, and real-time integrated systems have been developed with little hardware overhead [22]. Regions with Convolutional Neural Networks (CNN) features (R-CNN) were introduced in order to address the exigency of Profound neural organizations (DNNs). The most representative CNNs, or DNNs, operate very differently from conventional methods. Compared to shallow architectures, they have deeper architectures that can learn more complicated features [23]. A pertinent pioneer effort has been made [24] that largely concentrates on useful software tools to deploy convolutional neural networks for object identification and picture classification but pays little attention to describing individual algorithms. Another concept of deep learning is Feature extraction. For the recognition of various objects, visual features are extracted which can provide semantic and robust representation. For the construction of significant features of the data for the purpose of training, research and interpretation of various algorithms feature extraction are used. Feature extraction can be done by using a Histogram of oriented gradients (HOG) [25] and Scale-invariant feature transform [26]. Deep learning is the driving force behind all recent advances in machine learning. Without machine learning, self-driving cars, chatbots, and personal assistants like Alexa and Siri would not exist. Net-flix and YouTube had no idea what movies or TV series we enjoy or dislike, and the Google Translation app would stay as simple as it was 10 years ago (before Google transitioned to neural networks for this app). Every one of these advancements relies on neural networks [27, 28]. However, it is not easy to design a robust feature descriptor manually that ide-ally illustrates all types of entities because of the diversity of appearances, backgrounds and illumination conditions. The past several years have seen a lot of interest in object detection. Deep Learning is a subset of Machine Learning, which is a category of artificial intelligence (AI) technology. A broad term used to describe methods that let computers replicate human behaviour is artificial intelligence (AI). Deep learning models may be described as neural networks with a deep framework. For object detection, we used a variety of deep learning models, including convolutional neural networks, region-proposal-based models, and regression/classification-based models. In contrast to that, our work not only thoroughly examines object detection models and algorithms based on deep learning that encompass many application domains but also offers relevant experimental assessments and evaluations. The development of a system for efficient and accurate object

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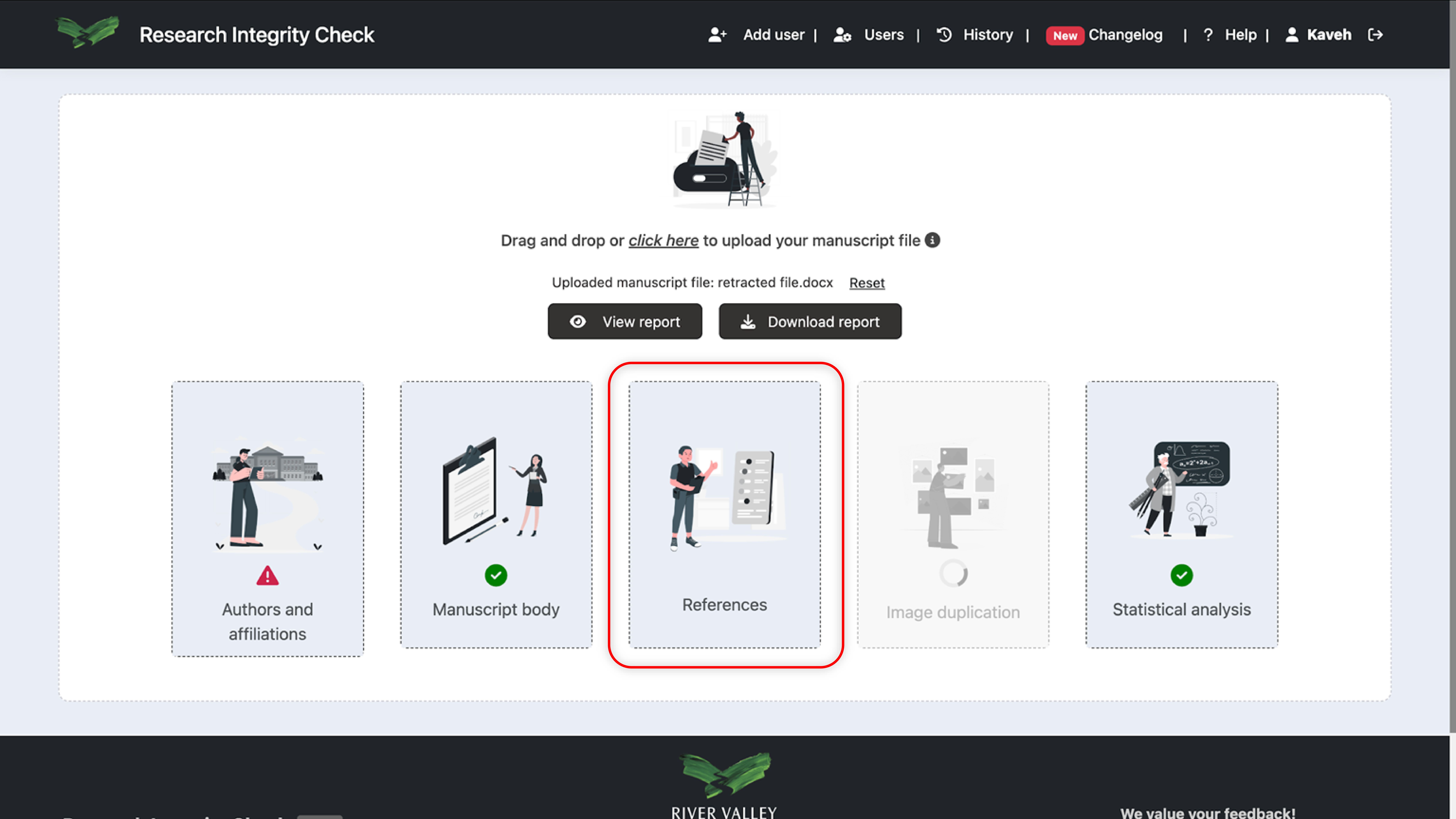
Tortured phrase > Expected Text:
profound neural organizations > deep neural networks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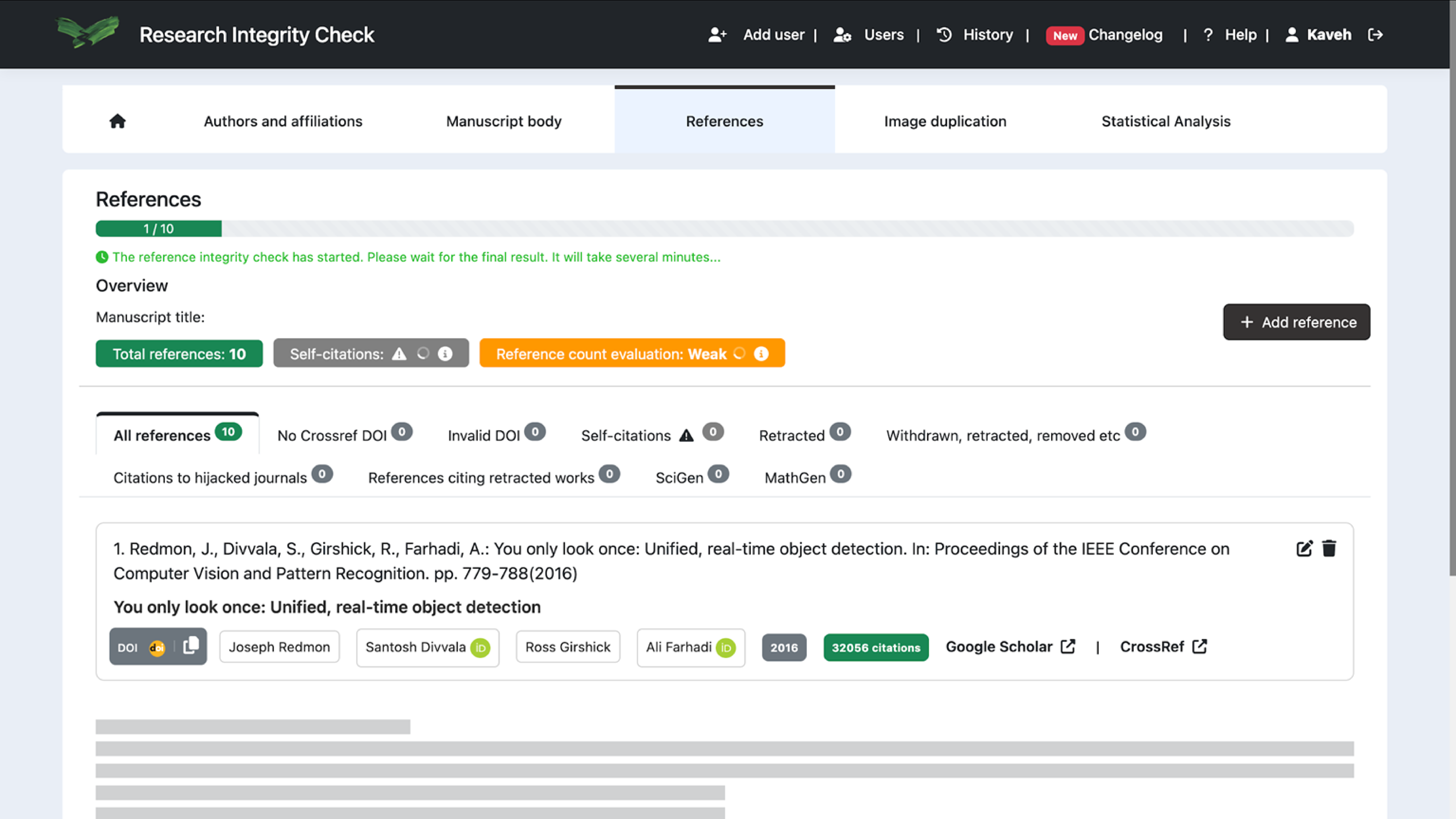
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1. Redmon, J., Divvala, S., Girshick, R., Farhadi, A.: You only look once: Unified, real-time object detection. In: Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition. pp. 779-788(2016)
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Citations to hijacked journals 0 | References citing retracted works 0 | SciGen 0 | MathGen 0

1. Redmon, J., Divvala, S., Girshick, R., Farhadi, A.: You only look once: Unified, real-time object detection. In: Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition. pp. 779-788(2016)

You only look once: Unified, real-time object detection

DOI | Joseph Redmon | Santosh Divvala | Ross Girshick | Ali Farhadi | 2016 | 32056 citations | **Google Scholar** | **CrossRef**

2. Sriram, G.S.: Security challenges of big data computing. Int. Res. J. Mod. Eng. Technol. Sci. 4(1), 1164-1171 (2022)

No Crossref DOI | **Google Scholar**

3. Anbalagan, S., Gupta, S., Nirmala, P., Mohamed Mansoor Roomi, S.: Deep learning based real-time COVID norms violation detection system. Int. J.Intell.

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Retracted Article

1. Aditya Tandon, Shouvik Kumar Guha, Junaid Rashid, Jungeun Kim, Mamta Gahlan, Mohammad Shabaz & Nasreen Anjum (2023). Graph based CNN Algorithm to Detect Spammer Activity Over Social Media, IETE Journal of Research, 69:10, lxxi-lxxxi, DOI: 10.1080/03772063.2022.2061610

Graph based CNN Algorithm to Detect Spammer Activity Over Social Media

DOI | IETE Journal of Research | Aditya Tandon | Shouvik Kumar Guha | Junaid Rashid | Jungeun Kim | Mamta Gahlan

Mohammad Shabaz | Nasreen Anjum | 2022 | 4 citations | **Google Scholar** | **CrossRef**

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RETRACTED ARTICLE: Graph based CNN Algorithm to Detect Spammer Activity Over Social Media

Aditya Tandon, Shouvik Kumar Guha, Junaid Rashid, Jungeun Kim, Mamta Gahlan, Mohammad Shabaz & ...show all

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Abstract

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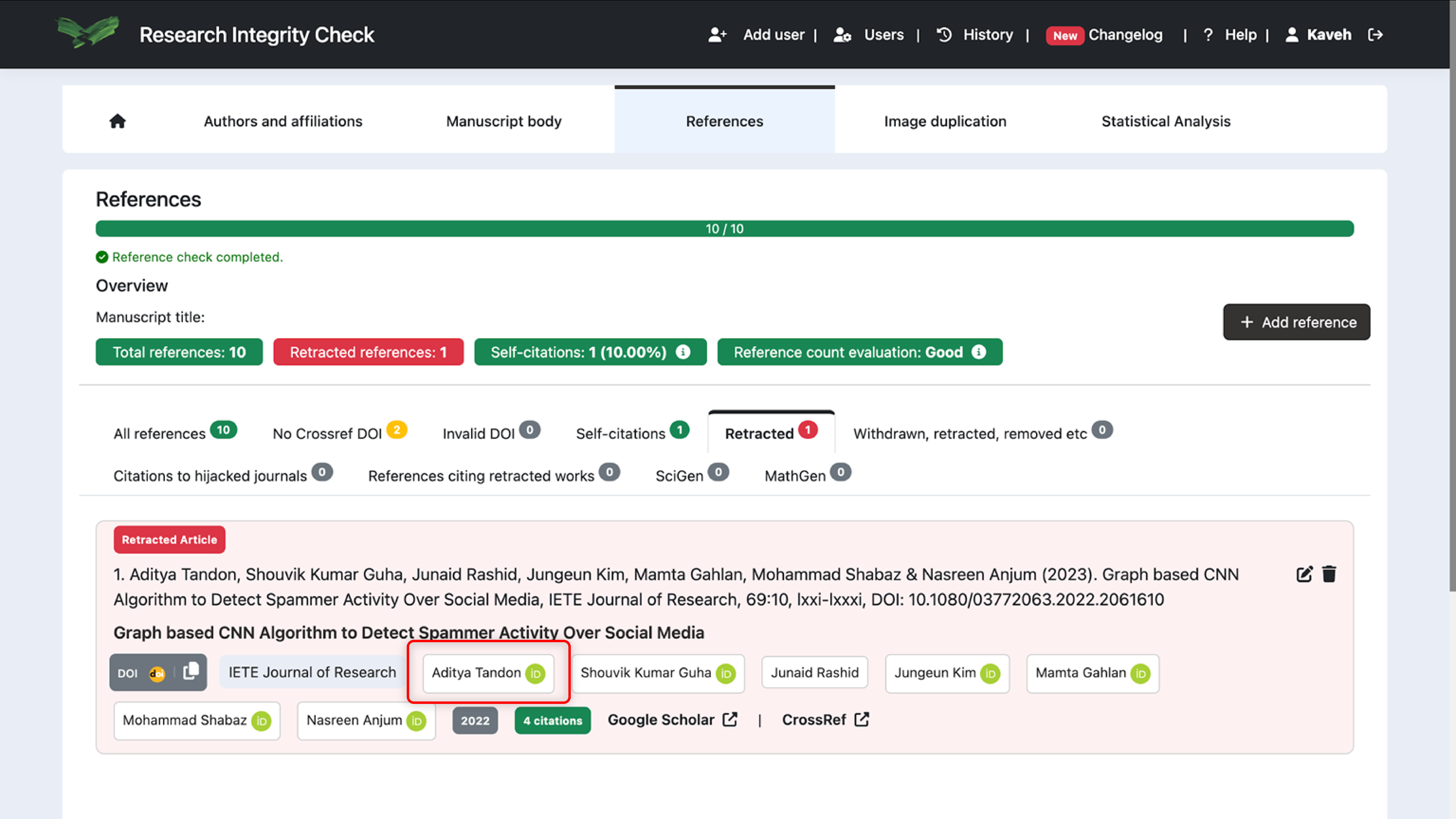
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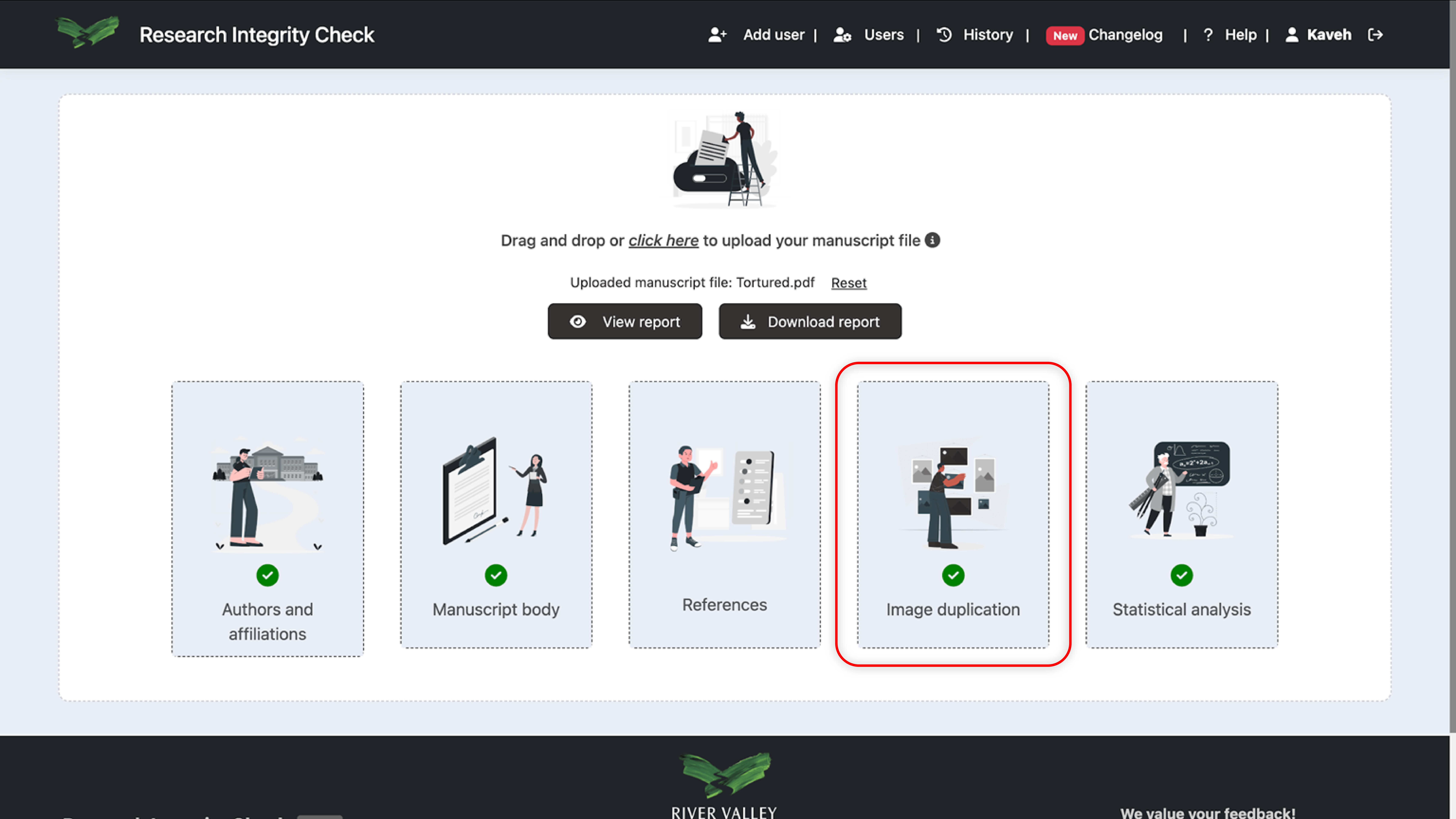

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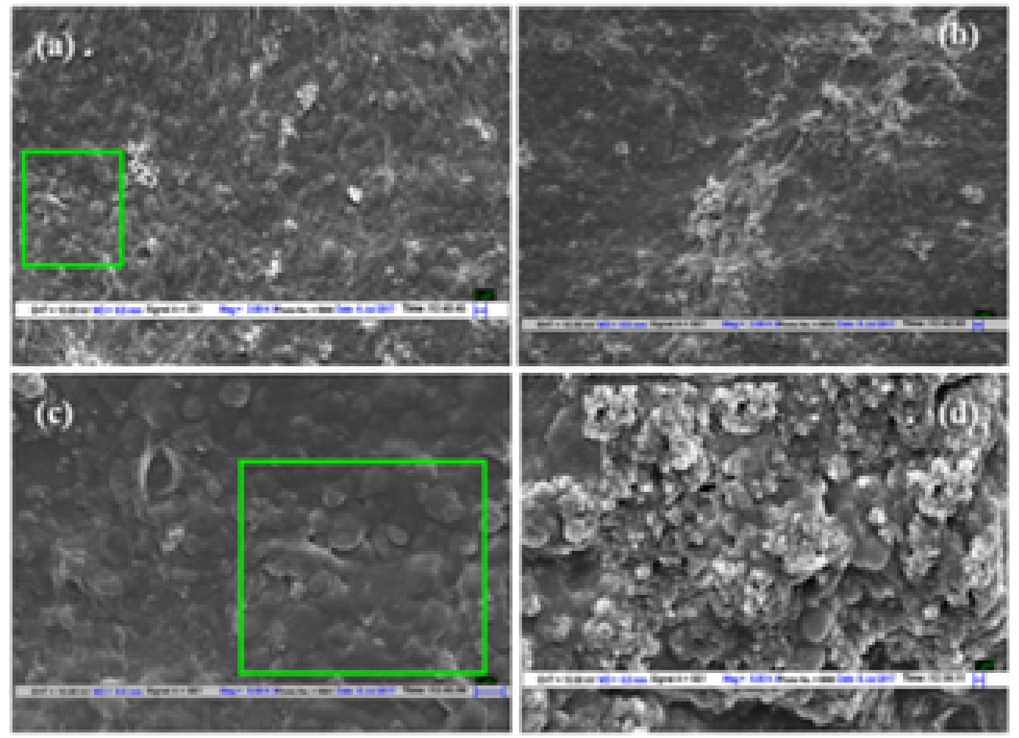


Fig. 4. SEM images of algal consortia S16 (a) and (c) under normal conditions at 2kX and 5kX (b) and (d) under stress conditions at 2kX and 5kX.

revealed strong vibrations at 1647 cm^{-1} (C=C), 2138 cm^{-1} (C≡C) and 3366 cm^{-1} (O—H), respectively. However, fluoride loaded biomass resulted in shifting of peaks attributed to C=C and C≡C whereas, hydroxyl group completely disappeared [50]. In the present study, under normal conditions, FTIR spectra of both the consortia (S1 and S16) showed the presence of lipid at 2937 cm^{-1}, protein amide I at 1645 cm^{-1}, carbohydrate at 1037 and 1051 cm^{-1} and water at 3430 cm^{-1}, respectively. Nonetheless, under stress conditions, both the consortia exhibited strong peaks at 2944 and 2954 cm^{-1}, respectively for lipid, 1652 cm^{-1} for protein amide I, 1051 cm^{-1} for carbohydrate and 3473 and 3448 cm^{-1}, respectively for water (Fig. 4 (a, b)).

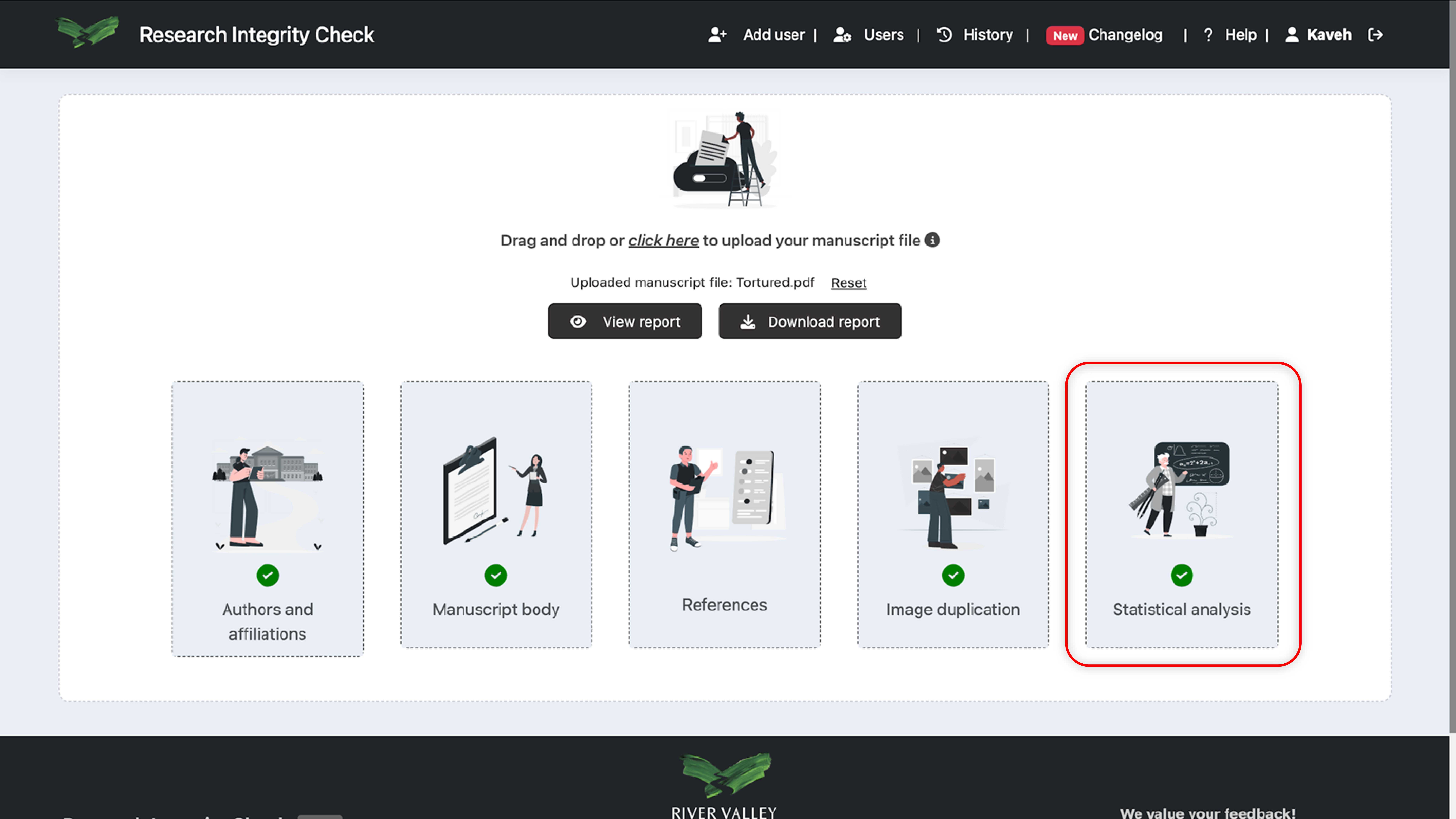
Miglio et al. carried out an investigation, which aimed at a semiquantitative estimation of microalgal triglycerols using Fourier transform infrared spectroscopy [48]. Various bands were observed at 1000–1200 cm^{-1} due to stretching of C—O—C groups thereby, indicating the presence of polysaccharides in the cell walls of microalgae. Additionally, protein amide I and protein amide II groups at 1655 cm^{-1} and 1545 cm^{-1}, respectively were also observed. FTIR analysis revealed the presence C—H stretching peaks at ~2960 cm^{-1} and ~2850 cm^{-1} corresponding to the triglycerides of algae. The presence of peaks at 1240 cm^{-1} were ascribed to nucleic acids and polyphosphate storage products mainly due to P=O group. FTIR analysis of microalgae can be used to evaluate structural changes in algal cells by taking band assignment into consideration [51]. Various band positions at 1655 cm^{-1} and 1545 cm^{-1} corresponding to protein amide I (C=O) and protein amide II ν(C—N), ν(N—H), respectively revealed the presence of protein. Presence of stretching vibration peaks at 2800–3000 cm^{-1} indicated that acid treatment (HCl 5% and H_2SO_4 5%) of algal biomass did not affect the functional groups related to lipid content.

3.5. SEM analysis of algal consortia under normal and stress conditions

SEM investigation was carried out to analyze the changes in surface morphologies of both the algal consortia. SEM micrographs of algal consortia under normal and stress conditions have been shown in Figs. 5 and 6 (a)–(b). Under normal conditions, algal cells were swollen, had compact boundaries, smooth surface with irregular network of subtle ribs, normal and well-defined shape as is evident from the SEM micrographs. Nitrogen stress conditions caused irregularity and slight corrugation of cells, which might be attributed to cell lysis due to the uptake of nitrate ions on the cell surfaces. Thus, it is inferred from the SEM images that nutrient stress had a profound effect on algal cell morphology [52–54]. Biswas et al. studied the effects of fluoride stress on cell morphology and revealed that native strains of cyanobacteria had smooth cell surfaces, which under fluoride stress became slightly rough and corrugated [50]. Similarly, Bajwa et al. evaluated the effects of nutrient stress on four species of microalgae. It was observed that under normal conditions, *Chlorella* sp. had smooth cell surfaces, whereas under nutrient stress, cells became disrupted [55]. In case of *Scenedesmus* sp., cells were compactly arranged in two to four under normal conditions while stress caused fragmentation of the cells. Similar to the present investigation Doshi et al. observed distortion of cell wall in *Chlorella* sp. after absorption of Ni^{2+} and Cu^{2+} ions [54].

4. Conclusion

Algal consortia present interesting cell factories for the production of lipids under extreme environmental conditions. However, in order to enhance their rates of lipid biosynthesis, culture conditions i.e. pH,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Statistical Analysis

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1	F(1,48) = 3.76, p < .05	0.05	0.05838328206900912	True
2	t(48) = 0.95, p < .01	0.01	0.34687124778977385	True
3	t(50) = 2.34, p < .05	0.05	0.023316552973589606	False

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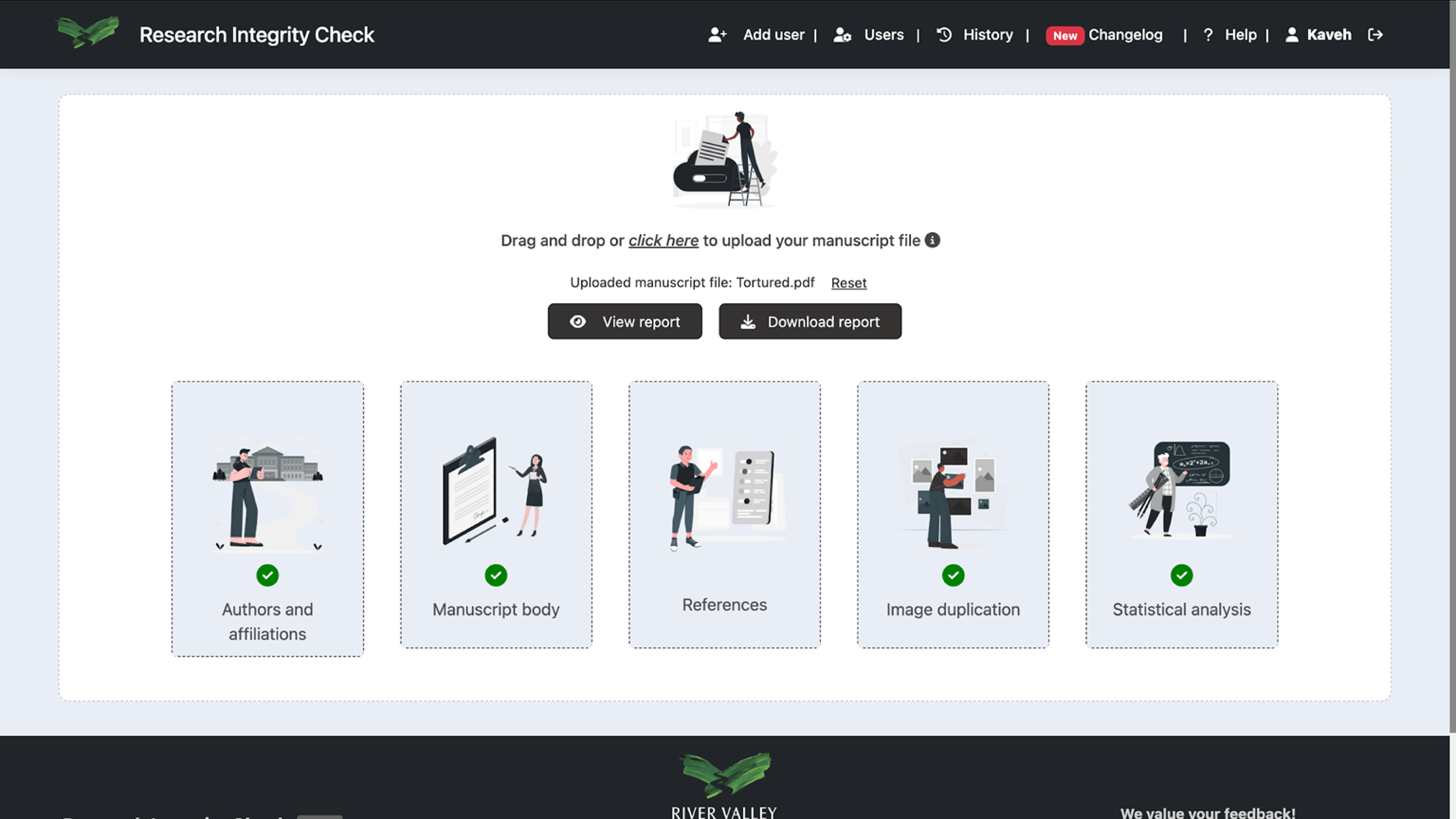
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