Suchetha Nambanoor Kunnath

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Summary

I am a Jisc funded Data Science PhD student in the Big Scientific Data and Text Analytics Group (BSDTAG) at Knowledge Media Institute (KMi), Open University, UK. My research work focuses on identifying citation functions using automated methods for research evaluation. Specifically, I am interested in using Machine learning and Natural Language Processing for analysing scientific publications full-text for gaining insights about discursive relationship between citing and cited articles.

Education

2020–Present	Data Science PhD Student, Knowledge Media Institute (KMi), The Open University, UK
	Topic: "Language Models for Citation Classification"
	Supervisors: Prof. Petr Knoth and Dr. David Pride
2011–2013	M.Tech, Cyber Security, Amrita University, Coimbatore, India
2007–2011	B.Tech, Computer Science, College of Engineering, Vadakara, India

Research Experience

2022 Jan–
2022 June

Research Assistant, KMi, The Open University, Milton Keynes, UK

- The AI Chemist project on citation classification
- Development of new feature-enriched ACT2 dataset from unstructured scholarly documents

2015–2016   Research Assistant, Computer Science, Amrita University, Coimbatore, India

- Semantic Analysis Project (SAP) funded by Defence Research & Development Organisation (DRDO), Govt. of India.
- Social media analysis for twitter sentiment classification

Publications

Journals

[1] **Kunnath, Suchetha N.**, Drahomira Herrmannova, David Pride, and Petr Knoth. "A meta-analysis of semantic classification of citations." Quantitative Science Studies (2021): 1-24. (pdf)

Conferences

[1] **Suchetha Nambanoor Kunnath**, David Pride, and Petr Knoth. 2023. Prompt Training Strategies for Citation Classification. Submitted to the ACM International Conference on Information and Knowledge Management, CIKM 2023 (under review)

[2] **Suchetha Nambanoor Kunnath**, David Pride, and Petr Knoth. 2022. Dynamic Context Extraction for Citation Classification. In Proceedings of the 2nd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 12th International Joint Conference on Natural Language Processing (Volume 1: Long Papers), pages 539–549, Online only. Association for Computational Linguistics. (pdf)

[3] **Suchetha Nambanoor Kunnath**, Valentin Stauber, Ronin Wu, David Pride, Viktor Botev, and Petr Knoth. 2022. ACT2: A multi-disciplinary semi-structured dataset for importance and purpose classification of citations. In Proceedings of the Thirteenth Language Resources and Evaluation Conference, pages 3398–3406, Marseille, France. European Language Resources Association. (pdf)

[4] **Kunnath, S. N.**, Pride, D., Herrmannova, D., Knoth, P. (2021, June). Overview of the 2021 SDP 3C citation context classification shared task. Association for Computational Linguistics. (pdf)

[5] **Kunnath, S. N.**, Pride, D., Gyawali, B., Knoth, P. (2020). Overview of the 2020 WOSP 3C citation context classification task. In Proceedings of the 8th International Workshop on Mining Scientific Publications (pp. 75-83). Association for Computational Linguistics. (pdf)

[6] Knoth, P., **Kunnath, S. N.**, Gyawali, B., Pride, D., Stahl, C., Herrmannova, D. (2020, August). 8th International Workshop on Mining Scientific Publications (WOSP 2020). In Proceedings of the ACM/IEEE Joint Conference on Digital Libraries in 2020 (pp. 581-582).

[7] **Suchetha, N. K.**, Nikhil, A., Hrudya, P. (2019, February). Comparing the wrapper feature selection evaluators on twitter sentiment classification. In 2019 International Conference on Computational Intelligence in Data Science (ICCIDS) (pp. 1-6). IEEE. (pdf)

[8] Surendran, K., Harilal, O. P., Hrudya, P., Poornachandran, P., **Suchetha, N. K.** (2017). Stylometry detection using deep learning. In Computational Intelligence in Data Mining (pp. 749-757). Springer, Singapore.

Invited Talks

- **Citation Typing for Research Evaluation** - Keynote presentation at the International Workshop on Knowledge Graphs, 2022 (KG2022), collocated with ICDM 2022 (The 22nd IEEE International Conference on Data Mining)

- **Context-dependent Citation Typing.** - Invited talk at Research Deep-Dive@iris.ai, 2022

Competitions Organised

- 3C Citation Context Classification shared task at second Scholarly Document Processing workshop (SDP), collocated with NAACL-2021. (link)

- 3C Citation Context Classification shared task at Eighth International Workshop on Mining Scientific Publications (WOSP), collocated with JCDL-2020. (link)

Conferences Organised

- Organiser of the Eighth International Workshop on Mining Scientific Publications (WOSP), 2020, collocated with JCDL.

Academic Activities

- Sub-reviewer, Joint Conference on Digital Library (JCDL), 2023.

- Reviewer, Quantitative Science Studies (QSS) Journal, 2022.

- Sub-reviewer, Theory and Practice of Digital Libraries (TPDL), 2022

- Reviewer, 2nd Scholarly Document Processing Workshop (SDP), 2021.

- Reviewer, 8th International Workshop on Mining Scientific Publications (WOSP), 2020.

- Sub-reviewer, Joint Conference on Digital Library (JCDL), 2021.

References

Available on request.