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Employment

Senior Data Scientist

Content and Product Innovation
Elsevier Research Groups
May 1 2018 → present

Research outputs

A pre-trained Language Model for Chemical Patents

He, J., Zhai, Z., Akhondi, S., Drukenbrodt, C., Thorne, C., Yoshikawa, H. & Verspoor, K., 2021, In: International Conference Recent Advances in Natural Language Processing, RANLP.

ChemTables: A Dataset for Semantic Classification of Tables in Chemical Patents.

Zhai, Z., Drukenbrodt, C., Thorne, C., Akhondi, S., Nguyen, D. Q., Cohn, T. & Verspoor, K., 2021, In: Research Square preprint.

Natural Language Processing Methods are Effective for Information Extraction from Chemical Patents. Under review at *Frontiers in Research Metrics and Analytics*, section Text-mining and Literature-based Discovery

He, J., Nguyen, D. Q., Akhondi, S., Drukenbrodt, C., Thorne, C., Hoessel, R., Afzal, Z., Zhai, Z., Fang, B., Yoshikawa, H., Albahem, A., Cavedon, L., Cohn, T., Baldwin, T. & Verspoor, K., 2021, In: *Frontiers in Bioscience - Landmark*.

Reaction Reference Resolution and Anaphora Resolution in Chemical Patents

He, J., Fang, B., Yoshikawa, H., Akhondi, S., Drukenbrodt, C., Thorne, C., Afzal, Z., Zhai, Z., Cavedon, L., Cohn, T., Baldwin, T. & Verspoor, K., 2021, *Advances in Information Retrieval*. (European Conference on Information Retrieval).

Stress Test Evaluation of Biomedical Word Embeddings

Araujo, V., Carvalho, A., Aspillaga, C., Thorne, C. & Parra, D., 2021, *BioNLP*.

ChEMU shared task: chemical entity recognition and event extraction of chemical reactions from patents

Thorne, C., Oct 9 2020.

An Extended Overview of the CLEF 2020 ChEMU Lab: Information Extraction of Chemical Reactions from Patents

He, J., Nguyen, D. Q., Akhondi, S., Drukenbrodt, C., Thorne, C., Hoessel, R., Afzal, Z., Zhai, Z., Fang, B., Yoshikawa, H., Albahem, A., Wang, J., Cavedon, L., Cohn, T. & Verspoor, K., 2020, *Proceedings of the CLEF 2020 conference*.

Disease Normalization with Graph Embeddings

Pujary, D., Thorne, C. & Aziz, W., 2020.

Overview of ChEMU 2020: Named Entity Recognition and Event Extraction of Chemical Reactions from Patents

He, J., Nguyen, D. Q., Akhondi, S. A., Drukenbrodt, C., Thorne, C., Hoessel, R., Afzal, Z., Zhai, Z., Fang, B., Yoshikawa, H., Albahem, A., Cavedon, L., Cohn, T., Baldwin, T. & Verspoor, K., 2020, *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Springer Science and Business Media Deutschland GmbH, p. 237-254 18 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 12260 LNCS).

Detecting Chemical Reactions in Patents

Yohsikawa, H., Thorne, C., Akhondi, S., Drukenbrodt, C., Verspoor, K., Nguyen, D. Q., Zhai, Z. & Cohn, T., 2019.

Improving Chemical Named Entity Recognition in Patents with Contextualized Word Embeddings

Akhondi, S. & Thorne, C., 2019, *BioNLP2019*.

Improving Chemical Named Entity Recognition in Patents with Contextualized Word Embeddings

Zhai, Z., Thorne, C., Akhondi, S., Verspoor, K., Nguyen, D. Q., Cohn, T. & Drukenbrodt, C., 2019.

On the semantic similarity of disease mentions in medline® and twitter

Thorne, C. & Klinger, R., 2018, *Natural Language Processing and Information Systems - 23rd International Conference on Applications of Natural Language to Information Systems, NLDB 2018, Proceedings*. Meziane, F., Silberstein, M., Atigui, F., Kornysheva, E. & Metais, E. (eds.). Springer Verlag, p. 324-332 9 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 10859 LNCS).

Press/Media

How data scientists are uncovering chemical compounds hidden in patents

Karin Verspoor, George Tsatsaronis, Saber Akhondi, Christian Drukenbrodt, Ralph Hoessel, Camilo Thorne, Trevor Cohn, Dat Quoc Nguyen, Zenan Zhai, Biaoyan Fang & Hiyori Yohsikawa

11/28/19

1 Media contribution

Projects

Information Extraction for Chemical Reactions with University of Melbourne

Verspoor, K., Akhondi, S., Tsatsaronis, G., Drukenbrodt, C., Thorne, C., Hoessel, R., Cohn, T., Nguyen, D. Q., Zhai, Z., Fang, B., Yohsikawa, H. & Doornenbal, M.

06/1/18 → 05/31/21

Datasets

ChemTables Sample: dataset for table classification in chemical patents

Thorne, C. (Creator), Akhondi, S. (Creator), Drukenbrodt, C. (Creator), Zhai, Z. (Creator), Verspoor, K. (Creator), Cohn, T. (Creator), Nguyen, D. Q. (Creator) & Eustratiadis, P. (Creator), Mendeley Data, Nov 4 2020

DOI: 10.17632/g7tjh7tbrj.1

ChEMU dataset for information extraction from chemical patents

Verspoor, K. (Creator), Nguyen, D. Q. (Creator), Akhondi, S. (Creator), Drukenbrodt, C. (Creator), Thorne, C. (Creator), Hoessel, R. (Creator), He, J. (Creator) & Zhai, Z. (Creator), Mendeley Data, 2020

DOI: 10.17632/wy6745bjfj.2