Literaturliste

Dr. Jens Dörpinghaus

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berufe.
bilden.
zukunft.

bibb Bundesinstitut für
Berufsbildung

Books and Book Contributions

2024   [IIX] J. Dörpinghaus, V. Weil, M. Sommer, M. Tiemann and K. Hein. Modeling and analysis of longitudinal labor market social networks. *Recent Advances in Computational Optimization Results of the Workshops on Computational Optimization and Numerical Search and Optimization*. Stefka Fidanova (Ed.). in press: Springer, 2024.

2023   [VII] J. Dörpinghaus, S. Schaaf, V. Weil, A. Apke (Eds.). *Computational Life Sciences – Data Engineering and Data Mining for Life Sciences*. Studies in Big Data; 112. Springer Verlag.

[VI] J. Dörpinghaus, V.Weil, J. Binnewitt. Towards the analysis of longitudinal Data in Knowledge Graphs on Job Ads. *Recent Advances in Computational Optimization Results of the Workshops on Computational Optimization and Numerical Search and Optimization*. Stefka Fidanova (Ed.). in press: Springer, 2023.

2021   [V] J. Dörpinghaus, A. Stefan. Semantic Graph Queries on Linked Data in Knowledge Graphs. *Recent Advances in Computational Optimization Results of the Workshops on Computational Optimization and Numerical Search and Optimization*. Stefka Fidanova (Ed.). Springer, 2021.

2020   [IV] J. Dörpinghaus, C. Düing, V. Weil. Utilizing Minimum Set-Cover Structures with Several Constraints for Knowledge Discovery on Large Literature Databases. *Recent Advances in Computational Optimization Results of the Workshops on Computational Optimization and Numerical Search and Optimization*. Stefka Fidanova (Ed.). Springer, 2020.

[III] J. Dörpinghaus, S. Schaaf, V. Weil. *Java für die Life Sciences – Eine Einführung in die angewandte Bioinformatik*. O'Reilly.

2019   [II] J. Dörpinghaus, R. Schrader. Solving Sorting of Rolling Stock Problems utilizing pseudochain structures in Graphs. *Recent Advances in Computational Optimization Results of the Workshops on Computational Optimization and Numerical Search and Optimization*. Stefka Fidanova (Ed.). Springer, 2019: 45–59.

2018   [I] J. Dörpinghaus. *Pseudostabile Mengen in Graphen*. Fraunhofer Verlag, 2018 (PhD thesis, University of Cologne).

Papers with Peer-Review

2024   [38] The Social Network of Philip in Acts: A dynamic pioneering missionary. Accepted at Biblical Theology Bulletin.

[37] J. Dörpinghaus. Complex network analysis of biblical texts: A case study on Acts. Submitted.

[36] J. Dörpinghaus, D. Stepanov, T. Hübenthal. A novel DFS/BFS approach towards link prediction. Submitted.

[35] J. Dörpinghaus, V. Weil, M. W. Sommer. Modeling and analysis of longitudinal social networks. Submitted.

[34] J. Dörpinghaus, J. Binnewitt, D. Samray, K. Hein. Understanding Informatics in Continuing Vocational Education and Training Data in Germany. Submitted.

[33] J. Dörpinghaus, V. Weil, R. Rockenfeller. An interdisciplinary approach towards quality control for social networks extracted from texts. Submitted.

[32] A. Fischer, J. Dörpinghaus. Web Mining of Online Resources for German Labor Market Research and Education: Finding the Ground Truth? Accepted by Knowledge.

[31] J. Dörpinghaus. Automated Annotation of Parallel Bible Corpora with Cross-Lingual Semantic Concordance. *Natural Language Engineering*, 2024.

2023
[30] J. Dörpinghaus, D. Samray, R. Helmrich. Challenges of Automated Identification of Access to Education and Training in Germany. *Information* 2023, *14*(10), 524

[29] J. Dörpinghaus, J. Binnewitt, S. Winnige, K. Hein, K. Krüger. Towards a German Labor Market Ontology: Challenges and Applications. Applied Ontology, vol. 18, no. 4, pp. 343-365, 2023.

[28] J. Dörpinghaus. Digital and Network-Based Methods for Narrative Criticism. Accepted at Svensk Exegetisk Årsbok.

[27] J. Dörpinghaus, V. Weil, M. W. Sommer. Towards modelling and analysis of longitudinal social networks. Communication Papers of the 18th Conference on Computer Science and Intelligence Systems, 2023, pp. 81–89.

[26] F. Derksen, J. Dörpinghaus. Digitalization and Sustainability in German Continuing Education. INFORMATIK 2023, Lecture Notes in Informatics (LNI), Gesellschaft für Informatik, p. 1945-1954.

[25] R. Fechner, J. Dörpinghaus, A. Firll. Classifying Industrial Sectors from German Textual Data with a Domain Adapted Transformer. Proceedings of the 18th Conference on Computer Science and Intelligence Systems, 2023, pp. 463–470.

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[24] J. Dörpinghaus. Social Network Analysis and Co-Occurrence: Identifying the Gaps. *Proceedings of the Workshop on Humanities-Centred Artificial Intelligence co-located with 45th German Conference on Artificial Intelligence*, 2022.

[23] J. Dörpinghaus, V. Weil, J. Binnewitt. Analyzing longitudinal Data in Knowledge Graphs utilizing shrinking pseudo-triangles. Proceedings of the of the 17th Conference on Computer Science and Intelligence Systems, 2022.

[22] J. Dörpinghaus, V. Weil, C. Düing, M. Sommer. Centrality Measures in multi-layer Knowledge Graphs. Communication Papers of the of the 17th Conference on Computer Science and Intelligence Systems pp. 163–170, 2022.

[21] J. Dörpinghaus, T. Hübenthal, J. Faber. A novel link prediction approach on clinical knowledge graphs utilising graph structures. Proceedings of the of the 17th Conference on Computer Science and Intelligence Systems pp. 43–52, 2022.

[20] J. Dörpinghaus. Wissensgraphen: Interdisziplinäre Perspektiven für Linked Data in den Geisteswissenschaften. *Zeitschrift für digitale Geisteswissenschaften (ZfdG)*, Heft 7.2022.

[19] J. Dörpinghaus, C. Düing, S. Klante, M. Christian. From Social Networks to Knowledge Graphs: A plea for interdisciplinary approaches. *Social Sciences & Humanities Open*, 6(1).

[18] J. Dörpinghaus. Computergestützte Verfahren für die Narrative Exegese. *BeTh*, 2022(6).

[17] J. Dörpinghaus, A. Stefan, B. Schultz, M. Jacobs. Context Mining and Graph Queries on Giant Biomedical Knowledge Graphs. *Knowledge and Information Systems (KAIS)*, 2022(64).

[16] J. Dörpinghaus. Digital Theology: New perspectives on interdisciplinary research between the Humanities and Theology. *Interdisciplinary Journal of Research on Religion (IJRR)*, 2022(18).

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[14] J. Dörpinghaus, V. Weil, S. Schaaf, T. Hübenthal. An efficient approach towards the generation and analysis of interoperable clinical data in a knowledge graph. Annals of Computer Science and Information Systems, 22, and Proceedings of the 2021 Federated Conference on Computer Science and Information Systems. IEEE, 2021.

[13] J. Dörpinghaus. Die Soziale Netzwerkanalyse: Neue Perspektiven für die Auslegung biblischer Texte? BeTh, 2021(5).

2020   [12] J. Dörpinghaus. Neue Forschungen zur Apostelgeschichte. Zwischen Tradition und interdisziplinärem Aufbruch. BeTh, 2020(4).

[11] J. Dörpinghaus, A. Stefan. Optimization of Retrieval Algorithms on Large Scale Knowledge Graphs. Annals of Computer Science and Information Systems, 21, and Proceedings of the 2020 Federated Conference on Computer Science and Information Systems. IEEE, 2020.

[10] J. Dörpinghaus, M. Jacobs. Knowledge Detection and Discovery using Semantic Graph Embeddings on Large Knowledge Graphs generated on Text Mining Results. Annals of Computer Science and Information Systems, 21, and Proceedings of the 2020 Federated Conference on Computer Science and Information Systems. IEEE, 2020

[9] R. Li, A. Zupanic, M. Talikka, V. Belcastro, S. Madan, J. Dörpinghaus u. a. Systems toxicology approach for testing chemical cardiotoxicity in larval zebrafish. Chemical Research in Toxicology. 33:10, 2020.

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[7] J. Dörpinghaus, C. Düing, V. Weil. A Minimum Set-Cover Problem with several constraints for Information Extraction. Proceedings of the 2019 Federated Conference on Computer Science and Information Systems. IEEE, 2019.

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[3] J. Dörpinghaus, S. Schaaf, M. Jacobs. Soft Document Clustering using a novel Graph Covering Approach. *BioData Mining*. 11:11, 2018.

2017   [2] S. Madan, J. Szostak, J. Dörpinghaus, u. a. Overview of BEL Track: Extraction of Complex Relationships and their Conversion to BEL. *Proceedings of the BioCreative VI Workshop.* Bethesda, MD USA, 2017.

[1] J. Dörpinghaus, S. Schaaf, J. Fluck und M. Jacobs. Document Clustering using a Graph Covering with Pseudostable Sets. *Proceedings of the 2017 Federated Conference on Computer Science and Information Systems*. IEEE, 2017.

Workshop Publications, Posters with Peer-Review and Preprints

2024	[C26] M. Tiemann, S. Udelhoven, J. Dörpinghaus, R. Helmrich. Berufsbildungsforschung in Social Media: Perspektiven nach 2023? Poster, Nachhaltige Archivierung, Erschließung, Bereitstellung dynamischer Daten aus sozialen Medien - Twitter und danach, 2023.
2023	[C25] M. Tiemann, J. Dörpinghaus. Vocational Education and Training Data in Twitter: Making German Twitter Data Interoperable. Poster, ASIS&T Annual Meeting 2023.
	[C24] T. Reiser, J. Dörpinghaus. Die Verwendung der GLMO zur Verknüpfung von großen Textkorpora aus Berufsbildungsforschung und Stellenanzeigen. Poster, 6. OJA Forum, 2023.
	[C23] R. Fechner, J. Dörpinghaus, R. Rockenfeller. Hidden Markov Models for Longitudinal Disease Progress Modeling. Accepted at the International Conference on Computational Science (ICCS), 2023.
	[C22] J. Dörpinghaus. Algorithmic challenges towards temporal data in social network analysis. Accepted at GrapHNR 2023: Graphs and Networks in the fourth dimension – time and temporality as categories of connectedness.
	[C21] J. Dörpinghaus, J. Binnewitt, S. Winnige, K. Krüger, K. Hein, T. Schnepf. Linked data and modeling for the German labor market. Accepted at the International Conference on Computational Science (ICCS), 2023.
	[C20] J. Dörpinghaus, D. Samray, R. Helmrich. Rule-based detection of access to education and training in Germany. Accepted at the International Conference on Computational Science (ICCS), 2023. Preprint at arXiv:2304.06307.
	[C19] J. Dörpinghaus, J. Binnewitt, K. Hein. Evaluating Computer Science Education: Lessons from Continuing Vocational Training Course. 2023 Conference on Innovation and Technology in Computer Science Education.
2022	[C18] J. Dörpinghaus, J. Binnewitt, S. Winnige. *Generating Linked Skills Data for Knowledge Discovery in German Labor Market Documents*. Knowledge, skills, behaviours: An international workshop. Brighton, 2022.
	[C17] J. Dörpinghaus, V. Weil, C. Düing, M. W. Sommer. *Centrality Measures in multi-layer Knowledge Graphs*. Preprint at arXiv:2203.09219 .
2019	[C16] J. Dörpinghaus, A. Stefan, A. Apke, V. Lage-Ruprecht. Data Exploration on dense Knowledge Graphs for biomedical Research utilizing Context Information. arXiv:1912.06194; doi: https://arxiv.org/abs/1912.06194.
	[C15] J. Dörpinghaus, M. Jacobs. Semantic Knowledge Graph Embeddings for biomedical Research: Data Integration using Linked Open Data. Proceedings of

the Posters and Demo Track of the 15th International Conference on Semantic Systems co-located with 15th International Conference on Semantic Systems - SEMANTiCS 2019.

[C14] J. Dörpinghaus, M. Jacobs, M. Hofmann-Apitius. Context graph for biomedical research data: A fair and open approach towards reproducible research in Medicine. MAQC2019, Poster.

2018   [C13] R. Li, M. Talikka, S. Madan, J. Dörpinghaus u. a. Systems toxicology approach for the assessment of imidacloprid neurotoxicity in zebrafish. SOT 2019; Toxicology Letters 295(1), Poster.

[C12] J. Dörpinghaus, J. Klein, S. Madan, J. Darms, M. Jacobs. SCAIView – A semantic Search Engine for biomedical Research utilizing a Microservice Architecture. Proceedings of the Posters and Demos Track of the 14th International Conference on Semantic Systems - SEMANTiCS2018. 2018.

[C11] J. Dörpinghaus, S. Schaaf, und M. Jacobs. DocClustering: An implementation of the novel PS-Document Clustering algorithm. bioRxiv 397133; doi: https://doi.org/10.1101/397133 .

[C10] J. Dörpinghaus, A. Tom Kodamullil, S. Madan. Knowledge Discovery on Biomedical Literature: Validating and Quality Control on Cause and Effect Networks. SWAT4HCLS 2018, Poster.

[C9] J. Dörpinghaus, C. Stenschke. Ein kollaborativer Workflow zur historischen Netzwerkanalyse mit Open Source Software. FrOSCon 2018, Vortrag. Science Track FrOSCon 2018

[C8] J. Dörpinghaus, A. Tom Kodamullil. An Alzheimer's Landscape: Validating Cause and Effect Networks and Knowledge Discovery on MEDLINE. ICSB 2018, Poster.

[C7] J. Dörpinghaus, C. Stenschke. Early Christianity in Acts 1-12: A Social Network Perspective. GBFE M&D Seminar 2018, Poster.

[C6] R. Li, C. vom Berg, M. Talikka, J. Dörpinghaus u. a. Systems toxicology approach for the assessment of zebrafish cardiotoxicity. EUROTOX 2018, Poster. Toxicology Letters 295, 2018.

[C5] J. Darms, J. Dörpinghaus. Improving Document Retrieval with a clustering based relevance Feedback System. Proceedings of the 11th IADIS International Conference on Information Systems. IADIS, 2018.

[C4] J. Dörpinghaus, M. Jacobs, J. Fluck. Graph based Discovery in biomedical Information Systems connecting scientific Texts with structured Expert Knowledge. Proceedings of the 11th IADIS International Conference on Information Systems. IADIS, 2018.

[C3] M. Jacobs, S. Hodapp, J. Dörpinghaus. SDA: Towards a novel knowledge discovery model for information systems. Proceedings of the 11th IADIS International Conference on Information Systems. IADIS, 2018.

2017   [C2] J. Szonastak, S. Madan, W. Hayes, J. Dörpinghaus u. a. Recent Improvements of the BEL Information Extracion workFlow (BELIEF) for Biomedical Text Mining and Curation. Biocuration 2017, Poster.

2016   [C1] S. Schaaf, M. Zimmermann, S. Hodapp, J. Dörpinghaus u. a. Semantic technologies for the rapid generation of mechanistic models in neurodegenerative diseases. Bioinformatics for Human Health and Disease 2016, Poster.