



Literaturliste

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Mehr Informationen unter:

https://www.bibb.de/de/26480_jens_doerpinghaus.php

Books and Book Contributions


- 2025 [XII] 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, 2025.
- [XI] M. Tiemann, J. Dörpinghaus: Computational Social Sciences. *Handbuch Methoden der empirischen Sozialforschung*. Nina Baur, Jörg Blasius (Eds.). To appear: Springer, 2025.
- [X] J. Binnewitt, M. Tiemann, J. Dörpinghaus: Text Mining. *Handbuch Methoden der empirischen Sozialforschung*. Nina Baur, Jörg Blasius (Eds.). To appear: Springer, 2025.
- [IX] J. Dörpinghaus, M. Tiemann (Eds.). *Advances in Computational Social Sciences*. In preparation with Springer.
- 2024 [IIX] J. Dörpinghaus, M. Tiemann. Künstliche Intelligenz - aktueller Treiber der Transformation? *Datenreport zum Berufsbildungsbericht 2024*. Bundesinstitut für Berufsbildung (Hrsg.), 2023, pp. 386-388.
- [VII] 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.). Springer, 2024.
- 2023 [VI] 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.
- 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 [47] J. Dörpinghaus, V. Weil, R. Rockenfeller. An interdisciplinary approach towards quality control for social networks extracted from texts. Submitted.
- [46] J. Dörpinghaus, V. Weil, R. Rockenfeller, M. P. Mangroliya. A novel approach towards the robustness of centrality measures in networks. Accepted at *Social*

Sciences & Humanities Open.

- [45] T. Reiser, J. Dörpinghaus, P. Steiner, M. Tiemann. Towards a dataset of digitalized historical German VET and CVET regulations. Accepted at *Data*.
- [44] J. Dörpinghaus. Complex network analysis of biblical texts: A case study on Acts. Submitted.
- [43] J. Dörpinghaus, V. Weil, M. W. Sommer. Modeling and analysis of longitudinal social networks. *Applied Network Science*, **9**, 52 (2024)
- [42] T. Asselborn, J. Dörpinghaus, F. Kausar, R. Möller, S. Melzer: Enhancing Text Recognition of Damaged Documents through Synergistic OCR and Large Language Models. Accepted at FedCSIS 2024.
- [41] M. P. Mangroliya, J. Dörpinghaus, R. Rockenfeller. Towards the analysis of errors in centrality measures in perpetuated networks. Accepted at FedCSIS 2024.
- [40] R. Fechner, J. Dörpinghaus. No Train, No Pain? Assessing the Ability of LLMs for Text Classification with no Finetuning. Accepted at FedCSIS 2024.
- [39] M. Tiemann, J. Dörpinghaus, V. H. Shivashankar. An analysis of Computer Science in OJAs with a dual-lingual ontology approach. *INFORMATIK 2024, Lecture Notes in Informatics (LNI)*, Gesellschaft für Informatik, p. 2041-2052.
- [38] D. Martić, A. Fischer, J. Dörpinghaus. Extending the German Labor Market Ontology with Online Data. *INFORMATIK 2024, Lecture Notes in Informatics (LNI)*, Gesellschaft für Informatik, p. 2013-2024.
- [37] M. P. Mangroliya, J. Dörpinghaus, R. Rockenfeller. Node and Edge Removal on Complex Networks in Labor Market Research and their Influence on Centrality Measures. *INFORMATIK 2024, Lecture Notes in Informatics (LNI)*, Gesellschaft für Informatik, p. 2029-2040.
- [36] R. Fechner, J. Dörpinghaus, R. Rockenfeller, J. Faber. Ensemble of HMMs for Sequence Prediction on Multivariate Biomedical Data. *BioMedInformatics 2024*, **4**(3), 1672-1691
- [35] T. Reiser, J. Dörpinghaus, P. Steiner. Analyzing Historical Legal Textcorpora: German VET and CVET regulations. *INFORMATIK 2024, Lecture Notes in Informatics (LNI)*, Gesellschaft für Informatik, p. 2001-2012.
- [34] J. Dörpinghaus, J. Binnewitt, D. Samray, K. Hein. Understanding Informatics in Continuing Vocational Education and Training Data in Germany. *ACM Transactions on Computing Education*, 2024, **24**(3), 1-22.
- [33] The Social Network of Philip in Acts: A dynamic pioneering missionary. *Biblical Theology Bulletin 2024*, **54**(1), 50-73.
- [32] A. Fischer, J. Dörpinghaus. Web Mining of Online Resources for German Labor Market Research and Education: Finding the Ground Truth? *Knowledge 2024*, **4**(1), 51-6
- [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. *Svensk Exegetisk Årsbok*, 88(1) pp. 106–134.
- [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.
- 2022 [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). 
- 2021 [15] J. Dörpinghaus, C. Düing. Automated creation of parallel bible corpora with crosslingual semantic concordance. *Annals of Computer Science and Information Systems, 22 and Proceedings of the 2021 Federated Conference on Computer Science and Information Systems*. IEEE, 2021.
- [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*

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- [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.
- 2019 [8] J. Dörpinghaus, A. Stefan. Knowledge Extraction and Applications utilizing Context Data in Knowledge Graphs. *Proceedings of the 2019 Federated Conference on Computer Science and Information Systems*. IEEE, 2019.
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- 2018 [6] J. Dörpinghaus, R. Schrader. A Graph-Theoretic Approach to the Train Marshalling Problem. *Proceedings of the 2018 Federated Conference on Computer Science and Information Systems*. IEEE, 2018.
- [5] J. Dörpinghaus, J. Darms, M. Jacobs. What was the Question? A Systematization of Information Retrieval and NLP Problems. *Proceedings of the 2018 Federated Conference on Computer Science and Information Systems*. IEEE, 2018.
- [4] T. Adams, J. Dörpinghaus, M. Jacobs und V. Steinhage. Automated lung tumor detection and diagnosis in CT Scans using texture feature analysis and SVM. *Communication Papers of the 2018 Federated Conference on Computer Science and Information Systems*. IEEE, 2018.
- [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 [C40] J. Dörpinghaus, D. Stepanov, T. Hübenthal. A novel DFS/BFS approach towards link prediction. 2024. Preprint at <https://arxiv.org/abs/2409.11687>

- [C39] S. Udelhofen, J. Dörpinghaus. 2024. IT Professionals in Germany. Labor Market Demands of Computer Science Education and their Perception on Social Media. In *Proceedings of the 2024 on Innovation and Technology in Computer Science Education V. 2 (ITICSE 2024)*. Association for Computing Machinery, New York, NY, USA, 802.
- [C38] 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, 2024.
- [C37] K. Kostadinovska, J. Dörpinghaus. Educational pathways in a German labor market knowledge graph. Poster, accepted at DAI-EaR'24 at Informatik 2024.
- [C36] S. Udelhofen, J. Dörpinghaus, M. Tiemann: Transforming VET research through data science? Opportunities, challenges, restrictions and connections. Workshop, Nordyrk conference 2024, Reykjavík, Iceland.
- [C35] K. Hein, J. Dörpinghaus: What is said about VET on social media in Germany? Trends, demands, and opinions. Nordyrk conference 2024, Reykjavík, Iceland.
- [C34] A. Firl, J. Dörpinghaus, R. Helmrich, M. Tiemann: Evolving trends and digitization for vocational education in Germany on YouTube. Nordyrk conference 2024, Reykjavík, Iceland.
- [C33] T. Reiser, J. Dörpinghaus, P. Steiner: Learning from historical VET and CVET regulations in Germany: What should VET look like and whom should it serve? Nordyrk conference 2024, Reykjavík, Iceland.
- [C32] J. Dörpinghaus, R. Helmrich: German CVET advertisement: Do we see a connection between Digitalization and Sustainability? Poster, 13th Researching Work & Learning (RWL), Linköping, Sweden.
- [C31] M. Tiemann, S. Udelhofen, J. Dörpinghaus, D. Peachkah, A. Vahdatnia: Twitter data in substantial VET research: Discussing occupations, briefly but thoroughly. 13th Researching Work & Learning (RWL), Linköping, Sweden.
- [C30] M. Tiemann, R. Helmrich, J. Dörpinghaus: Surveys and Big Data: Closing the gap? 13th Researching Work & Learning (RWL), Linköping, Sweden.
- [C29] J. Dörpinghaus, R. Helmrich, M. Tiemann. Towards an analysis of perception biases in historical networks: Synergies between Social Sciences and Digital Humanities. Poster, Digital Humanities Conference 2024, Washington DC, USA.
- [C28] S. Udelhofen, J. Dörpinghaus, M. Tiemann, T. Reiser, P. Steiner: Reinventing Historical Sources as New Computational Social Science Data: Regulations for Vocational Education over Time in Germany. Digital Humanities Conference 2024, Washington DC, USA.
- [C27] M. Tiemann, J. Dörpinghaus: Where is the AI? A case study on VET and CVET advertisements. IX Stockholm International Conference & Research Workshop on VET.
- [C26] J. Dörpinghaus, M. Tiemann: How does social media data reflect labour market demands: A case study on vocational education and continuing education in Germany. IX Stockholm International Conference & Research Workshop on VET.
- 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](https://arxiv.org/abs/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](https://arxiv.org/abs/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](https://arxiv.org/abs/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](https://doi.org/10.1101/397133); 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.