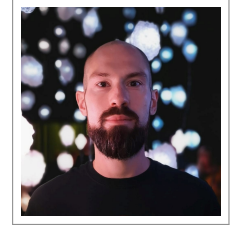


# Dr. Dominik Kowald

Research Area Manager at Know-Center & TU Graz



*"If scientific reasoning were limited to the logical processes of arithmetic, we should not get very far in our understanding of the physical world. One might as well attempt to grasp the game of poker entirely by the use of the mathematics of probability." (Vannevar Bush, Author of "As We May Think")*

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## Education

**Dr.techn. (Ph.D.),** *Graz University of Technology, Graz, 2012–2017*  
Austria, *with distinction.*

Institute of Interactive Systems and Data Science (ISDS)

**Dipl.Ing. (MSc.),** *Graz University of Technology, Graz, 2009–2012*  
Austria, *with distinction.*

Institute for Information Systems and Computer Media (IICM)

**BSc.,** *Graz University of Technology, Graz, Austria. 2006–2009*

Institute for Information Systems and Computer Media (IICM)

**College,** *College of Industrial Engineering (BULME), 2001–2006*  
Graz, Austria, *with distinction.*

Manufacturing Computer Science

## Ph.D. thesis

**title:** *Modeling Activation Processes in Human Memory to Improve Tag Recommendations*

**supervisors:** Prof. Stefanie Lindstaedt, Ass.Prof. Elisabeth Lex

**external examiner:** Prof. Tobias Ley (Tallinn University, Estonia)

## Master thesis

**title:** *Combining Computer-Supported, Collaborative Learning with E-Assessment: Enhancing a Wiki System with Flexible Assessment Methods*

**supervisors:** Prof. Christian Gütl, Ass.Prof. Mohammad Al-Smadi

## Bachelor thesis

**title:** *Peer Assessment in Computer Science and Modern Technologies to Build a Flexible E-Learning System around it*

**supervisors:** Prof. Christian Gütl, Ass.Prof. Mohammad Al-Smadi

## Positions held

### **Research Area Manager, Know-Center & TU-Graz. 2021–now**

Research Area Manager for Social Computing and senior researcher at the Institute of Interactive Systems (ISDS) at TU-Graz.

International research projects:

- DDIA (FFG), key researcher for “Social Immersive Training” (2022 - 2026).
- Radreisen4All (FFG), key researcher (2022 - 2024)
- AI-Xciting (FFG), key researcher (2022 - 2024).
- XAI and recommendations (Maastrich University), research stay (Nov. 2021)
- DDAI (FFG), key researcher for “Explainable AI for Users” (2020 - 2023).
- AI-CARE (FFG), key researcher (2021 - 2023)
- TRUSTS (H2020), task lead and key researcher (2020 - 2022).
- COGSTEPS (Erasmus+), key researcher (2020 - 2022).
- TRIPLE (H2020), key researcher (2019 - 2023).
- AI4EU (H2020), co-task lead and key researcher (2019 - 2021).

### **Deputy Research Area Manager, Know-Center, Graz. 2017–2020**

Deputy Research Area Manager for Social Computing and post-doctoral researcher for recommender systems.

International research projects:

- MarineXChange (FFG), researcher (2020 - 2021).
- JOLIOO (FFG), researcher (2020 - 2021).
- Heli-D (SFG), work package lead and researcher (2018 - 2021).
- Studo (FFG), researcher (2018 - 2020)
- Data Market Austria (FFG), researcher (2017 - 2019).

### **Researcher and developer, Know-Center, Graz. 2012–2017**

Working on various research projects in the Social Computing area.

International research projects:

- AFEL (H2020), co-task lead (2017 - 2018) and researcher (2016 - 2018).
- MoreGrasp (H2020), researcher (2017 - 2018).
- Organic.Lingua (FP7), developer (2012 - 2013).

### **Ph.D. candidate, Graz University of Technology, Graz. 2012–2017**

Institute of Interactive Systems and Data Science (ISDS).

International research projects:

- Learning Layers (FP7), co-work package lead and researcher (2012 - 2016).
- Digitale TU Graz, researcher (2017).

### **Project assistant, Graz University of Technology, Graz. 2010–2012**

Institute for Information Systems and Computer Media (IICM).

International research projects:

- ALICE (FP7), developer (2010 - 2012).

### **Developer, IVM Technical Consultants, Graz. 2009–2010**

Working on software projects in the automotive sector.

### **Developer, GRAWE Insurance AG, Graz. Summer 2009**

Working on software projects in the insurance sector (summer intern).

### **Developer, GAW Technologies, Graz. Summer 2007+2008**

Working on software projects in the automation sector (summer intern).

## Awards

**Dissertation Award:** Chamber of Labor Styria (Arbeiterkammer Steiermark), Austria. 2018.

**Nominated for ACM SIGCHI Outstanding Dissertation Award:** Faculty of Informatics of Graz University of Technology for Ph.D. thesis. 2018.

**Nominated for Award of Excellence:** Faculty of Informatics of Graz University of Technology for Ph.D. thesis. 2018.

**Nominated for Heinz Zemanek Award:** Faculty of Informatics of Graz University of Technology for Ph.D. thesis. 2018.

**Best Demo Honourable Mention:** Conference on Knowledge Technologies and Data-Driven Business (i-Know'2015) in Graz, Austria. 2015.

**Best Poster Award:** ACM Conference on Hypertext and Social Media (HT'2014) in Santiago, Chile. 2014.

## Grants

**FFG – K1 Research Center Grant:** 20,4M for second funding period of the Know-Center GmbH (3,4M for Fair-AI) as research area manager for Fair-AI. 2023 - 2026.

**Project Grant:** RADREISEN4ALL, FFG Femtech, 150k for Social Computing, Know-Center GmbH as key-researcher. 2022 - 2024.

**FFG – COMET Module Grant “DDIA”:** 3,7M for the Know-Center GmbH (350k for Social Computing) as key-researcher. 2022 - 2026.

**Travel Grant:** Research stay (1 week) at XAI group at Maastricht University, The Netherlands, by Land Steiermark. 2021

**Travel Grant:** Research stay (1 week) at WIS Group at TU Delft, The Netherlands, by Land Steiermark (postponed due to COVID-19). 2020

**Project Grant:** COGSTEPS, Erasmus+, 130k for the Know-Center GmbH and ISDS@TU-Graz as researcher. 2020 - 2023.

**Project Grant:** JOLIOO, FFG Basisantrag, 120k for Social Computing, Know-Center GmbH as co-writer. 2020.

**Project Grant:** TRUSTS, H2020, 730k for the Know-Center GmbH (138k for Social Computing) as co-writer. 2020 - 2022.

**FFG – COMET Module Grant “DDAI”:** 3,7M for the Know-Center GmbH (700k for Social Computing) as co-writer. 2020 - 2022.

**Project Grant:** TRIPLE, H2020, 377k for the Know-Center GmbH (120k for Social Computing) as co-writer. 2019 - 2022.

**Travel Grant:** European Symp. on Computational Social Science (EU-ROCSS) in Zurich, Switzerland. 2019.

**FFG – K1 Research Center Grant:** 20,4M for second funding period of the Know-Center GmbH (3,4M for Social Computing) as co-writer. 2019 - 2022.

**Project Grant:** AI4EU, H2020, 147k for the Know-Center GmbH (73,5k for Social Computing) as co-writer. 2019 - 2021.

**Travel Grant:** European Symp. on Computational Social Science (EU-ROCSS) in Cologne, Canada. 2018.

**Project Grant:** OpenAIRE Matchmaker, OpenAIRE Open Tender Calls LOT II Value-added services, 15k for Social Computing, Know-Center GmbH as co-writer. 2018.

**Project Grant:** Health-Literacy und Diversity (HeLi-D), Gesundheitsfonds Steiermark (2017), 75k for the Know-Center (37.5k for Social Computing) as co-writer. 2018 - 2020.

**Travel Grant:** ACM Conference on Hypertext and Social Media (HT'2016) in Halifax, Canada. 2016.

**Project Grant:** Data Market Austria (DMA), IKT der Zukunft, 286k for the Know-Center (170k for Social Computing) as co-writer. 2015 - 2019.

## Teaching and mentoring

**Teaching certificate:** Advanced Module of Teaching Academy of TU-Graz. 2022 - 2023.

**External lecture:** FH Joanneum, Summer term 2022, Journalism course, invited external lecture on recommender systems in media and beyond, 2022

**Teaching certificate:** Basic Module of Teaching Academy of TU-Graz. 2021 - 2022.

**Co-supervision:** Mayr, G., Accuracy, Popularity Lift and Calibration in Recommender Systems. Master Project. Graz University of Technology. 2022.

**Co-supervision:** Mayr, G., Calibration in Recommender Systems. Bachelor thesis. Graz University of Technology. 2022.

**Co-supervision:** Duricic, T., Sparsity and Interpretability of Graph-based Recommender Systems. PhD thesis. Graz University of Technology. 2021 - 2024.

**Co-supervision:** Muellner, P., Privacy-Aware Recommender Systems. PhD thesis. Graz University of Technology. 2020 - 2023.

**Co-supervision:** Wagner, M., Diversity-Aware Recommendation of Tweets. Master thesis. Graz University of Technology. 2020.

**Co-supervision:** Muellner, P., Studying Non-Mainstream Music Listening Behavior For Fair Music Recommendations. Master thesis. Graz University of Technology. 2019.

**Co-supervision:** Punz, A., Detection and Analysis of Communities on Twitter. Bachelor thesis. Graz University of Technology. 2016.

**Course support:** Lex, E., Science 2.0. Graz University of Technology. 2016.

**Course support:** Parra, D. and Trattner, C., Recommender Systems.

PUC Chile. 2014.

**Practical assignment:** Lex, E. and Trattner, C., Web Science. Graz University of Technology. 2014.

**Practical assignment:** Guetl, C., Information Search and Retrieval. Graz University of Technology. 2011 and 2012.

**Teaching assistant:** Legenstein, R., Data-Structures and Algorithms. Graz University of Technology. 2009.

## Session chairing and workshop organization

**SummerAcademy'2020:** Co-Organizer of Know-Center summer academy on recommender systems, Graz, Austria (online due to COVID-19, 2020).

**CIKM'2018:** Session chair of the Recommendation track of the ACM Conference on Information and Knowledge Management, Turin, Italy, 2018.

**RSBDA'2017:** Co-Organizer of the Second Workshop on Recommender Systems and Big Data Analytics co-located with i-KNOW 2017, Graz, Austria, 2017.

**RSBDA'2016:** Co-Organizer of the First Workshop on Recommender Systems and Big Data Analytics co-located with i-KNOW 2016, Graz, Austria, 2016.

**i-Know'2015:** Session chair of the Social Computing track of the International Conference on Knowledge Technologies and Data-Driven Business, Graz, Austria, 2015.

**i-Know'2013:** Session chair of the Science 2.0 track of the International Conference on Knowledge Technologies and Data-Driven Business, Graz, Austria, 2013.

## Programm committee membership and reviewing

**PERSPECTIVES'2022:** Perspectives on the Evaluation of Recommender Systems co-located with RecSys'2022, 2022

**MORS'2022:** Workshop on Multi-Objective Recommender Systems co-located with RecSys'2022, 2022

**RecSys'2022:** 16th ACM Conference on Recommender systems, 2022.

**IJHCI:** International Journal of Human-Computer Interaction, 2022

**ECTEL'2022 (leading reviewer:** 17th European Conference on Technology-Enhanced Learning, 2022.

**IUI'2022:** ACM Conf. on Intelligent User Interfaces, 2022.

**HT'2022:** 33rd ACM Conference on Hypertext and Social Media, 2022.

**UMAP'2022:** ACM Conference on User Modeling, Adaptation and Personalization, 2022.

**UMAP-DC'2022:** Doctoral Consortium of ACM Conference on User Modeling, Adaptation and Personalization, 2022.

**HAAPIE'2022:** 7th International Workshop on Human Aspects in Adaptive and Personalized Interactive Environments co-located with UMAP'2022, 2022.

**ICWE'2022:** 22nd International Conference on Web Engineering, 2022.

**FRONTIERS (review editor):** Frontiers in Big Data - Section Recommender Systems, 2021.

**TIST:** ACM Transactions on Intelligent Systems and Technology, 2021.

**MORS'2021:** Workshop on Multi-Objective Recommender Systems co-located with RecSys'2021, 2021.

**PERSPECTIVES'2021:** Perspectives on the Evaluation of Recommender Systems co-located with RecSys'2021, 2021

**RecSys'2021:** 15th ACM Conference on Recommender systems (Reproducibility track), 2021.

**CIKM'2021:** 30th ACM International Conference on Information and Knowledge Management (resource track), 2021.

**ASC:** Applied Soft Computing, 2021.

**ECTEL'2021 (leading reviewer):** 16th European Conference on Technology-Enhanced Learning, 2021.

**HT'2021:** 32nd ACM Conference on Hypertext and Social Media, 2021.

**UMAP'2021:** ACM Conf. on User Modeling, Adaptation and Personalization, 2021.

**IUI'2021:** ACM Conf. on Intelligent User Interfaces, 2021.

**ECTEL'2020 (leading reviewer):** 15th European Conference on Technology-Enhanced Learning, 2020.

**FRONTIERS:** Frontiers in Psychology, 2020.

**RecSys'2020:** 14th ACM Conference on Recommender systems (LBR and reproducibility tracks), 2020.

**CIKM'2020:** 29th ACM International Conference on Information and Knowledge Management (resource track), 2020.

**HT'2020:** 31st ACM Conf. on Hypertext and Social Media, 2020.

**WWW'2020:** International World Wide Web Conference (poster track), 2020.

**IUI'2020:** ACM Conf. on Intelligent User Interfaces (poster track), 2020.

**RDSM'2020:** 3rd International Workshop on Rumours and Deception in Social Media co-located with COLING'2020 conference, 2020.

**EPJ:** EPJ Data Science, 2019.

**TWEB:** ACM Transactions on the Web, 2019.

**HT'2019:** 30th ACM Conference on Hypertext and Social Media, 2019.

**WebSci'2019:** 11th ACM Conference on Web Science, 2019.

**EUROCSS'2019:** EU Symp. on Computational Social Science, 2019.

**TCSC:** IEEE Transactions on Computational Social Systems, 2019.

**ASC:** Applied Soft Computing, 2019.

**MSM'2019:** Workshop on Modeling Social Media at WWW'2019, 2019.

**PlosOne:** PlosOne Journal, 2018.

**Journal of Systems and Software:** Elsevier, 2018.

**TKDE:** IEEE Transactions of Knowledge and Data Management, 2018.

**INRT:** Information Retrieval Journal, 2018.

**AJSE:** Arabian Journal for Science and Engineering, 2018.

**RecSys'2018:** ACM Conference on Recommender Systems, 2018.

**UMAP'2018:** ACM Conf. on User Modeling, Adaptation and Personalization, 2018.

**SoAPS'2018:** Workshop on Social Aspects in Personalization and Search co-located with ECIR'2018 conference, 2018.

**AFEL'2018:** Analytics for Everyday Learning Workshop co-located with ECTEL'2018 conference, 2018.

**SNAM:** Social Network Analysis and Mining Journal, 2017.

**C&E:** Computers and Education Journal, 2017.

**TLT:** Transactions on Learning Technologies, 2017.

**SNAMS'2017:** Int. Symp. on Social Networks Analysis, Management and Security, 2017.

**WebSci'2017:** Int. ACM Web Science Conference (poster track), 2017.

**OpenSym'2017:** Int. Symp. on Open Collaboration, 2017.

**MSM'2015:** Int. Workshop on Modeling Social Media co-located with WWW'2015, 2015.

**UMAP'2014:** ACM Conf. on User Modelling, Adaption and Personalization, 2014.

**EC-TEL'2014:** EU Conference on Technology Enhanced Learning, 2014.

## **Presentations at international conferences**

**ECIR'2022:** Poster session of the 44th European Conference on Information Retrieval in Stavanger, Norway.

**ECIR'2022:** Industry track of the 44th European Conference on Information Retrieval in Stavanger, Norway.

**BIAS'2022:** Bias workshop co-located with the 44th European Conference on Information Retrieval in Stavanger, Norway.

**DataWeek'2021:** Panel on Breaking silos in data innovation in Europe as part of BDVA Data Week (online event).

**ECIR'2020:** Reproducibility track of the 42nd European Conference on Information Retrieval in Lisbon, Portugal (online due to COVID-19).

**RECSYS'2019:** Poster session of the REVEAL workshop co-located with RECSYS'2019 in Copenhagen, Denmark.

**EUROCSS'2019:** Pecha Kucha and poster sessions of the EU Symp. on

Computational Social Science in Zurich, Switzerland.

**EUROCSS'2018:** Pecha Kucha and poster sessions of the EU Symp. on Computational Social Science in Cologne, Germany.

**CSS-SummerSchool'2019:** Madness session and mini-project presentation in Berlin, Germany.

**CIKM'2018:** Paper session of the Social Interaction-Based Recommender Systems Workshop co-located with CIKM'2018 in Turin, Italy.

**WWW'2018:** Poster session of the 27th International World Wide Web Conference in Lyon, France.

**EUROCSS'2017:** Algorithms paper and poster sessions of the EU Symp. on Computational Social Science in London, GB.

**UMAP'2017:** Poster session of the 25th Conference on User Modeling, Adaption and Personalization in Bratislava, Slovakia.

**WWW'2017:** Data Mining paper session of the 26th International World Wide Web Conference in Perth, Australia.

**HT'2016:** Social Media Analytics paper session of the 27th ACM Conference on Hypertext and Social Media in Halifax, Canada.

**CSSWS'2015:** Pecha Kucha and poster session of the 2nd Computational Social Sciences Winter Symp., Cologne, Germany.

**RECSYS'2015:** Short Paper slam and poster session of the 9th ACM Conference on Recommender Systems, Vienna, Austria.

**WWW'2015:** PhD Symp. of the 24th International World Wide Web Conference, Florence, Italy.

**i-Know'2015:** Demo session of 15th Int. Conference on Knowledge Technologies, Graz, Austria.

**WWW'2014:** Paper session of the WebScience track of the 23rd International World Wide Web Conference, Seoul, Korea.

**WWW'2014:** Paper session of the workshop on Social Recommender Systems @ WWW'2014 conference, Seoul, Korea.

**i-Semantics'2013:** Minute madness and poster session of the 9th Int. Conference on Semantic Systems, Graz, Austria.

## Selected publications (last 5 years)

**ECIR'22:** E. Lacic, L. Fadljevic, F. Weissenboeck, S. Lindstaedt, and D. Kowald, "What drives readership? An online study on user interface types and popularity bias mitigation in news article recommendations", in *Proc. of the 44th European Conference on Information Retrieval*, 2022

**EPJ'21:** D. Kowald, P. Muellner, E. Zangerle, C. Bauer, M. Schedl, and E. Lex, "Support the Underground: Characteristics of Beyond-Mainstream Music Listeners", *EPJ Data Science*, 2021

**FTIR'21:** E. Lex, D. Kowald, P. Seitlinger, T. Tran, A. Felfernig, and M. Schedl, "Psychology-informed recommender systems", *Foundations and Trends in Information Retrieval*, 2021



**ECIR'20:** D. Kowald, M. Schedl, and E. Lex, "The Unfairness of Popularity Bias in Music Recommendation: A Reproducibility Study", in *Proc. of the 42nd European Conference on Information Retrieval*, 2020

**WWW'17:** D. Kowald, S. C. Pujari, and E. Lex, "Temporal effects on hashtag reuse in twitter: A cognitive-inspired hashtag recommendation approach", in *Proc. of the 26th International Conference on World Wide Web*, 2017

### Publication list (in chronological order)

- [1] E. Lacic, L. Fadljevic, F. Weissenboeck, S. Lindstaedt, and D. Kowald, "What drives readership? an online study on user interface types and popularity bias mitigation in news article recommendations," in *Proceedings of the 44th European Conference on Information Retrieval*, ECIR '22, 2022.
- [2] D. Kowald and E. Lacic, "Popularity bias in collaborative filtering-based multimedia recommender systems," in *Proceedings of the BIAS Workshop co-located with the 44th European Conference on Information Retrieval*, BIAS@ECIR '22, 2022.
- [3] E. Lacic and D. Kowald, "Recommendations in a multi-domain setting: Adapting for customization, scalability and real-time performance," in *Proceedings of the Industry-Day Track of the 44th European Conference on Information Retrieval*, ECIR '22, 2022.
- [4] D. Kowald, P. Muellner, E. Zangerle, C. Bauer, M. Schedl, and E. Lex, "Support the underground: Characteristics of beyond-mainstream music listeners," *EPJ Data Science*, 2021.
- [5] E. Lex, D. Kowald, P. Seitlinger, T. Tran, A. Felfernig, and M. Schedl, "Psychology-informed recommender systems," *Foundations and Trends in Information Retrieval*, 2021.
- [6] M. Schedl, C. Bauer, W. Reisinger, D. Kowald, and E. Lex, "Listener modeling and context-aware music recommendation based on country archetypes," *Frontiers in Artificial Intelligence*, 2021.
- [7] P. Muellner, D. Kowald, and E. Lex, "Robustness of meta matrix factorization against strict privacy constraints," in *Proceedings of the 43rd European Conference on Information Retrieval*, ECIR '21, 2021.
- [8] O. Lesota, A. Melchiorre, N. Rekabsaz, S. Brandl, D. Kowald, E. Lex, and M. Schedl, "Impact of meta learning for privacy-preserving recommender systems," in *Proceedings of the 15th ACM Conference on Recommender Systems, Late-Breaking Results*, RecSys-LBR '21, 2021.
- [9] T. Turicic, D. Kowald, M. Schedl, and E. Lex, "My friends also prefer diverse music: homophily and link prediction with user preferences for mainstream, novelty, and diversity in music," in *Proceedings of International Conference on Advances in Social Network Analysis and Mining (MSDNS Workshop)*, ASONAM '21, 2021.

- [10] P. Muellner, E. Lex, and D. Kowald, "Impact of meta learning for privacy-preserving recommender systems," in *In The Responsible AI Forum*, TRAIF '21, 2021.
- [11] P. Muellner, E. Lex, and D. Kowald, "Position paper on simulating privacy dynamics in recommender systems," in *In Simulation for Recommender Systems Workshop co-located with ACM Conference on Recommender Systems*, SimuRec@RecSys '21, 2021.
- [12] E. Lex\*, D. Kowald\*, and M. Schedl, "Modeling popularity and temporal drift of music genre preferences," *Transactions of the International Society for Music Information Retrieval*, 2020, \* both authors contributed equally.
- [13] E. Lacic, M. Reiter-Haas, D. Kowald, M. R. Daredy, J. Cho, and E. Lex, "Using autoencoders for session-based job recommendations," *User Modeling and User-Adapted Interaction*, 2020.
- [14] D. Kowald, M. Schedl, and E. Lex, "The unfairness of popularity bias in music recommendation: A reproducibility study," in *Proceedings of the 42nd European Conference on Information Retrieval*, ECIR '20, 2020.
- [15] D. Kowald\*, E. Lex\*, and M. Schedl, "Utilizing human memory processes to model genre preferences for personalized music recommendations," in *HUMANIZE workshop co-located with the 25th ACM Conference on Intelligent User Interfaces*, HUMANIZE@IUI '20, 2020, \* both authors contributed equally.
- [16] T. Duricic, H. Hussain, L. Emanuel, D. Kowald, D. Helic, and E. Lex, "Empirical comparison of graph embeddings for trust-based collaborative filtering," in *Proceedings of the 25th International Symposium on Intelligent Systems*, ISMIS '20, 2020.
- [17] L. Fadljevic\*, K. Maitz\*, D. Kowald, V. Pammer-Schindler, and B. Gasteiger-Klipcera, "Slow is good: The effect of diligence on student performance in the case of an adaptive learning system for health literacy," in *Proceedings of the 10th International Learning Analytics and Knowledge Conference*, LAK '20, 2020, \* both authors contributed equally.
- [18] A. Ruiz-Calleja, S. Dennerlein, D. Kowald, D. Theiler, E. Lex, and T. Ley, "An infrastructure for workplace learning analytics: Tracing knowledge creation with the social semantic server," *Journal of Learning Analytics*, 2019.
- [19] S. Kopeinik, E. Lex, D. Kowald, D. Albert, and P. Seitlinger, "A real-life school study of confirmation bias and polarisation in information behaviour," in *Proceedings of the 14th European Conference on Technology Enhanced Learning*, ECTEL '19, 2019.
- [20] E. Lacic\*, D. Kowald\*, D. Theiler, M. Traub, L. Kuffer, S. Lindstaedt, and E. Lex, "Evaluating tag recommendations for e-book annotation

using a semantic similarity metric," in *REVEAL Workshop co-located with 13th ACM Conference on Recommender Systems*, REVEAL@RECSYS '19, 2019, \* both authors contributed equally.

- [21] D. Kowald, M. Traub, D. Theiler, H. Gursch, S. Lindstaedt, R. Kern, and E. Lex, "Using the open meta kaggle dataset to evaluate tripartite recommendations in data markets," in *REVEAL Workshop co-located with 13th ACM Conference on Recommender Systems*, REVEAL@RECSYS '19, 2019.
- [22] D. Kowald\*, E. Lex\*, and M. Schedl, "Modeling artist preferences for personalized music recommendations," in *Late-Breaking-Results of the 20th annual conference of the International Society for Music Information Retrieval*, ISMIR '19, 2019, \* both authors contributed equally.
- [23] E. Lex and D. Kowald, "The impact of time on hashtag reuse in twitter: A cognitive-inspired hashtag recommendation approach," in *Proceedings of the 49th GI Annual Conference*, INFORMATIK '19, 2019.
- [24] D. Kowald\*, E. Lex\*, and M. Schedl, "Modeling artist preferences of users with different music consumption patterns for fair music recommendations," in *3rd European Symposium on Societal Challenges in Computational Social Science*, EUROCSS '19, 2019, \* both authors contributed equally.
- [25] T. Duricic, E. Lacic, D. Kowald, and E. Lex, "Exploiting weak ties in trust-based recommender systems using regular equivalence," in *3rd European Symposium on Societal Challenges in Computational Social Science*, EUROCSS '19, 2019.
- [26] I. Hasani-Mavriqi, D. Kowald, D. Helic, and E. Lex, "Consensus dynamics in online collaboration systems," *Computational Social Networks*, vol. 5, no. 1, 2018.
- [27] D. Kowald, P. Seitlinger, T. Ley, and E. Lex, "The impact of semantic context cues on the user acceptance of tag recommendations: An online study," in *Companion of the The Web Conference 2018*, WWW '18, 2018.
- [28] M. d'Aquin, D. Kowald, A. Fessler, E. Lex, and S. Thalmann, "Afel-analytics for everyday learning," in *Companion of the The Web Conference 2018*, WWW '18, 2018.
- [29] E. Lex, T. Ross-Hellauer, and D. Kowald, "Recommender systems as enabling technology to interlink scholarly information," in *Workshop on Researcher Centric Scholarly Communication co-located with The Web Conference 2018*, RCSC@WWW '18, 2018.
- [30] T. Duricic, E. Lacic, D. Kowald, and E. Lex, "Trust-based collaborative filtering: Tackling the cold start problem using regular equivalence," in *Proceedings of the 12th ACM Conference on Recommender Systems*, RECSYS '18, 2018.

- [31] D. Kowald, E. Lacic, D. Theiler, and E. Lex, "AFEL-REC: A recommender system for providing learning resource recommendations in social learning environments," in *Social Interaction-Based Recommender Systems Workshop co-located with the 27th ACM International Conference on Information and Knowledge Management*, SIR@CIKM '18, 2018.
- [32] E. Lacic, D. Kowald, and E. Lex, "Neighborhood troubles: On the value of user pre-filtering to speed up and enhance recommendations," in *Workshop on Entity Retrieval co-located with the 27th ACM International Conference on Information and Knowledge Management*, EYRE@CIKM '18, 2018.
- [33] E. Lacic, D. Kowald, M. Reiter-Haas, V. Slawicek, and E. Lex, "Beyond accuracy optimization: On the value of item embeddings for student job recommendations," in *Workshop on Multi-dimensional Information Fusion for User Modeling and Personalization co-located with the 11th ACM International Conference on Web Search and Data Mining*, IFUP@WSDM '18, 2018.
- [34] D. Kowald and E. Lex, "Studying confirmation bias in hashtag usage on twitter," in *2nd European Symposium on Societal Challenges in Computational Social Science*, EUROCSS '18, 2018.
- [35] E. Lex, M. Wagner, and D. Kowald, "Mitigating confirmation bias on twitter by recommending opposing views," in *2nd European Symposium on Societal Challenges in Computational Social Science*, EUROCSS '18, 2018.
- [36] A. Fessler, D. Kowald, S. L. Sola, A. Moreno, R. Alonso, and S. Thalmann, "Analytics for everyday learning from two perspectives: Knowledge workers and teachers," in *AFEL Workshop co-located with European Conference on Technology Enhanced Learning Conference*, AFEL@ECTEL '18, 2018.
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