

## **Hady W. LAUW**

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## **Education**

PhD, Nanyang Technological University, Singapore, 2008

Bachelor of Engineering, Nanyang Technological University, Singapore, 2002  
First Class Honours

## **Academic Appointments**

Associate Professor of Computer Science, School of Computing and Information Systems, SMU, Apr 2021 - Present

Associate Professor of Information Systems, School of Computing and Information Systems, SMU, Jul 2018 - Mar 2021

Assistant Professor of Information Systems, School of Computing and Information Systems, SMU, Jan 2012 - Jun 2018

## **Academic Administrative Positions**

Director, BSc (Computer Science) Programme, School of Computing and Information Systems, SMU, Jul 2018 - Present

## **Other Positions and Affiliations**

Scientist, Data Mining Department, A\*STAR Institute for Infocomm Research, Singapore, Apr 2010 - Dec 2011

Postdoctoral Researcher, Search Labs, Microsoft Research, United States of America, Mar 2008 - Mar 2010

System Analyst (Trade & Industry), CrimsonLogic Singapore, Singapore, Jan 2003 - Nov 2003

## **Awards and Honors**

Distinguished Paper Award, International Joint Conference on Artificial Intelligence (IJCAI-20), 2021

Educational Research Fellow, Singapore Management University, 2019

Nominee for the Excellent Teacher Award, SMU Undergraduate Teaching Excellence Awards 2017, Singapore Management University, 2017

National Research Foundation (NRF) Fellow, Class of 2016, Singapore National Research Foundation, 2016

Lee Kong Chian (LKC) Fellow, Lee Kong Chian Fund for Excellence from the Lee Foundation, 2016

Nominee for the Most Promising Teaching Award, SMU Teaching Excellence Awards 2015, Singapore Management University, 2015

Nominee for the Outstanding Paper Award, AAAI Conference on Artificial Intelligence (AAAI'14), 2014

A\*STAR Graduate Scholarship, full funding for PhD study, Agency for Science, Technology and Research (A\*STAR), 2004

Goh Keng Swee Scholarship, full funding for undergraduate study, Association of Banks in Singapore, 1999

ASEAN Scholarships, full funding for secondary and pre-university studies, Singapore Ministry of Education, 1995

### Professional Memberships

Chair, Singapore Chapter of ACM SIGKDD, 2017 - 2023

Member, SIAM, 2016 - 2018

Member, AAAI, 2014 - 2023

Senior Member, IEEE Computer Society, 2013 - 2023

Senior Member, ACM, 2008 - 2023

Senior Member, IEEE, 2005 - 2023

## RESEARCH

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### Research Interests

Preference mining and recommender system

Visual analytics and dimensionality reduction

Web search and mining

### Publications

#### Journal Articles [Refereed]

Memory network-based interpreter of user preferences in content-aware recommender systems, by TRAN, Nhut-Thuat; LAUW, Hady W.. (2023). *ACM Transactions on Intelligent Systems and Technology*, 14 (6), 1-28. <https://doi.org/10.1145/3625239> (Published)

Robust Bidirectional Poly-Matching, by LEE, Ween Jiann; TKACHENKO, Maksim, LAUW, Hady W.. (2023). *IEEE Transactions on Knowledge and Data Engineering*, 35 (10), 10762-10774. <https://doi.org/10.1109/TKDE.2023.3266480> (Published)

Performance Evaluation of Aggregation-based Group Recommender Systems for Ephemeral Groups, by CEH-VARELA, Edgar; CAO, Huiping; LAUW, Hady W.. (2022). *ACM Transactions on Intelligent Systems and Technology*, 13 (6), 1-26. <https://doi.org/10.1145/3542804> (Published)

Variational learning from implicit bandit feedback, by TRUONG, Quoc Tuan; LAUW, Hady W.. (2021).

*Machine Learning*, 110 (8), 2085-2105. <https://doi.org/10.1007/s10994-021-06028-0> (Published)

Exploring Cross-Modality Utilization in Recommender Systems, by TRUONG, Quoc-Tuan; SALAH, Aghiles; TRAN, Thanh-Binh; GUO, Jingyao; LAUW, Hady W.. (2021). *IEEE Internet Computing*, 25 (4), 50-57. <https://doi.ieeecomputersociety.org/10.1109/MIC.2021.3059027> (Published)

Efficient retrieval of matrix factorization-based top-k recommendations: A survey of recent approaches, by LE, Duy Dung; LAUW, Hady Wirawan. (2021). *Journal of Artificial Intelligence Research*, 70 1441-1479. (Published)

Cornac: A Comparative Framework for Multimodal Recommender Systems, by SALAH, Aghiles; TRUONG, Quoc-Tuan; LAUW, Hady W.. (2020). *Journal of Machine Learning Research*, 21 (95), 1-5. (Published)

Comparative Relation Generative Model, by TKACHENKO, Maksim; LAUW, Hady W.. (2017). *IEEE Transactions on Knowledge and Data Engineering*, 29 (4), 771-783. <https://doi.org/10.1109/TKDE.2016.2640281> (Published)

Micro-review synthesis for multi-entity summarization, by NGUYEN, Thanh-Son; LAUW, Hady W.; TSAPARAS, Panayiotis. (2017). *Data Mining and Knowledge Discovery*, 31 (5), 1189-1217. <https://doi.org/10.1007/s10618-017-0491-4> (Published)

Probabilistic Models for Contextual Agreement in Preferences, by DO, Loc; LAUW, Hady W.. (2016). *ACM Transactions on Information Systems*, 34 (4), 21:1-33. <https://doi.org/10.1145/2854147> (Published)

Semantic Visualization with Neighborhood Graph Regularization, by LE, Tuan M. V.; LAUW, Hady W.. (2016). *Journal of Artificial Intelligence Research*, 55 1091-1133. <https://doi.org/10.1613/jair.4983> (Published)

A Cooperative Coevolution Framework for Parallel Learning to Rank, by WANG, Shuaiqiang; WU, Yun; GAO, Byron J.; WANG, Ke; LAUW, Hady W.; MA, Jun. (2015). *IEEE Transactions on Knowledge and Data Engineering*, 27 (12), 3152-3165. <https://doi.org/10.1109/TKDE.2015.2453952> (Published)

Review Selection Using Micro-Reviews, by NGUYEN, Thanh-Son; LAUW, Hady W.; TSAPARAS, Panayiotis. (2015). *IEEE Transactions on Knowledge and Data Engineering*, 27 (4), 1098-1111. <https://doi.org/10.1109/TKDE.2014.2356456> (Published)

Generative Models for Item Adoptions Using Social Correlation, by CHUA, Freddy Chong Tat; LAUW, Hady W.; LIM, Ee Peng. (2013). *IEEE Transactions on Knowledge and Data Engineering*, 25 (9), 2036-2048. <http://doi.org/10.1109/TKDE.2012.137> (Published)

Entity Synonyms for Structured Web Search, by CHENG, Tao; LAUW, Hady W.; PAPANIZOS, Stelios. (2012). *IEEE Transactions on Knowledge and Data Engineering*, 24 (10), 1862-1875. <https://doi.org/10.1109/TKDE.2011.168> (Published)

Organizing User Search Histories, by HWANG, Heasoo; LAUW, Hady W.; GETOOR, Lise; NTOULAS, Alexandros. (2012). *IEEE Transactions on Knowledge and Data Engineering*, 24 (5), 912-925. <http://doi.org/10.1109/TKDE.2010.251> (Published)

Quality and Leniency in Online Collaborative Rating Systems, by LAUW, Hady W.; LIM, Ee Peng; WANG, Ke. (2012). *ACM Transactions on the Web*, 6 (1), 4-1-4-27. <https://doi.org/10.1145/2109205.2109209> (Published)

STEvent: Spatio-Temporal Event Model for Social Network Discovery, by LAUW, Hady W.; LIM, Ee Peng; PANG, Hwee Hwa; TAN, Teck-Tim. (2010). *ACM Transactions on Information Systems*, 28 (3), 1-32. <https://doi.org/10.1145/1777432.1777438> (Published)

Homophily in the Digital World <i>A LiveJournal Case Study</i>, by LAUW, Hady W.; SHAFER, John C.; AGRAWAL, Rakesh; NTOULAS, Alexandros. (2010). *IEEE Internet Computing*, 14 (2), 15-23. <https://doi.org/10.1109/MIC.2010.25> (Published)

Bias and controversy in evaluation systems, by LAUW, Hady W.; LIM, Ee Peng; WANG, Ke. (2008). *IEEE Transactions on Knowledge and Data Engineering*, 20 (11), 1490-1504. <http://doi.org/10.1109/tkde.2008.77> (Published)

Social network discovery by mining spatio-temporal events, by LAUW, Hady W.; LIM, Ee Peng; PANG, Hwee Hwa; TAN, Teck-Tim. (2005). *Computational and Mathematical Organization Theory*, 11 (2), 97-118. <https://doi.org/10.1007/s10588-005-3939-9> (Published)

Shared-storage auction ensure data availability, by LAUW, Hady W.; HUI, Siu-Cheung; LAI, Edmund M. K.. (2004). *IEEE Internet Computing*, 8 (5), 22-28. <http://doi.org/10.1109/MIC.2004.50> (Published)

### Book Chapters

Biases in trust-based systems, by LAUW, Hady W.. (2014). In X. Liu, A. Datta, & Ee-Peng Lim (Ed.), *Computational trust models and machine learning* (pp. 157-173) Boca Raton, FL: CRC Press. <https://worldcat.org/isbn/9781482226669> (Published)

### Encyclopedia Entries

Web social mining, by LAUW, Hady W.; LIM, Ee Peng. (2009). In Miriam A. Drake (Ed.), *Encyclopedia of library and information science* Boca Raton, FL: CRC Press. <http://worldcat.org/isbn/9780849338946> (Published)

### Conference Proceedings

Disentangling transformer language models as superposed topic models, by LIM, Jia Peng; LAUW, Hady. (2023.0). *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing, Singapore, December 6-10*, (pp. 8646-8666) Singapore: ACL. <https://aclanthology.org/2023.emnlp-main.534> (Published)

Multi-representation Variational Autoencoder via iterative latent attention and implicit differentiation, by TRAN, Nhu-Thuat; LAUW, Hady W.. (2023.0). *CIKM '23: Proceedings of the 32nd ACM International Conference on Information and Knowledge Management, Birmingham, October 21-25*, (pp. 2462-2471) New York: ACM. <https://doi.org/10.1145/3583780.3614980> (Published)

Continual collaborative filtering through gradient alignment, by DO, Jaime Hieu; LAUW, Hady W.. (2023.0). *Proceedings of the 17th ACM Conference on Recommender Systems, Singapore, 2023 September 18-22*, (pp. 1133-1138) New York: ACM. <https://doi.org/10.1145/3604915.3610648> (Published)

Semantically constitutive entities in knowledge graphs, by CHIA, Chong Cher; TKACHENKO, Maksim; LAUW, Hady Wirawan. (2023.0). *Proceedings of the 34th International Conference on Database and Expert Systems Applications DEXA 2023, Penang, Malaysia, 2023 August 28-30*, (pp. 445-461) Penang, Malaysia: Springer Nature Switzerland. [https://doi.org/10.1007/978-3-031-39847-6\\_36](https://doi.org/10.1007/978-3-031-39847-6_36) (Published)

Hyperbolic graph topic modeling network with continuously updated topic tree, by ZHANG, Delvin Ce; YING, Rex; LAUW, Hady W.. (2023.0). *Proceedings of the ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, Long Beach CA, August 6-10*, (pp. 3206-3216) New York, USA: ACM. <https://doi.org/10.1145/3580305.3599384> (Published)

Large-scale correlation analysis of automated metrics for topic models, by LIM, Jia Peng; LAUW, Hady W.. (2023.0). *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics, Toronto, Canada, 2023 Jul 9-14*, (pp. 13874-13898) Pennsylvania: Association for Computational Linguistics. <https://doi.org/10.18653/v1/2023.acl-long.776> (Published)

Multi-lingual multi-partite product title matching, by TAY, Huan-Lin; TAY, Wei-Jie; LAUW, Hady W.. (2023.0). *Proceedings of the World Wide Web Conference: WWW 2023*, (pp. 99-102) New York, USA: ACM. <https://doi.org/10.1145/3543873.3587322> (Published)

Concept-oriented transformers for visual sentiment analysis, by TRUONG, Quoc-Tuan; LAUW, Hady W.. (2023.0). *WSDM '23: Proceedings of the 16th ACM International Conference on Web Search and Data Mining, Singapore, February 27-March 3*, (pp. 1111-1119) New York: ACM. <https://doi.org/10.1145/3539597.3570437> (Published)

Mining competitively-priced bundle configurations, by YOUNG, Ezekiel Ong; LAUW, Hady W.. (2022.0). *2022 IEEE International Conference on Big Data (Big Data): Osaka, December 17-20: Proceedings*, (pp. 6844-6846) Piscataway, NJ: IEEE. <https://doi.org/10.1109/BigData55660.2022.10020975> (Published)

Question-attentive review-level recommendation explanation, by LE, Trung-Hoang; LAUW, Hady W.. (2022.0). *Proceedings of the 2022 IEEE International Conference on Big Data (Big Data), Osaka, Japan, December 17-20*, (pp. 1-6) USA: IEEE. <https://doi.org/10.1109/BigData55660.2022.10020538> (Published)

- Towards reinterpreting neural topic models via composite activations, by LIM, Jia Peng; LAUW, Hady W.. (2022.0). *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing, USA*: <https://preview.aclanthology.org/emnlp-22-ingestion/2022.emnlp-main.242/> (Published)
- Meta-complementing the semantics of short texts in neural topic models, by ZHANG, Delvin Ce; LAUW, Hady W.. (2022.0). *Advances in Neural Information Processing Systems 36 (NeurIPS 2022): New Orleans, November 28-December 9, USA*: (Forthcoming)
- Morphologically-aware vocabulary reduction of word embeddings, by CHIA, Chong Cher; TKACHENKO, Maksim; LAUW, Hady W.. (2022.0). *WI-IAT '22: Proceedings of the IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology 2022, Niagara Falls, Canada, November 17-20*, (pp. 56-63) Piscataway, NJ: IEEE. <https://doi.org/10.1109/WI-IAT55865.2022.00018> (Published)
- Aligning dual disentangled user representations from ratings and textual content, by TRAN, Nhu-Thuat; LAUW, Hady W.. (2022.0). *KDD '22: Proceedings of the 28th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Washington, DC, August*, (pp. 1798-1806) New York: ACM. <https://doi.org/10.1145/3534678.3539474> (Published)
- Variational graph author topic modeling, by ZHANG, Delvin Ce; LAUW, Hady W.. (2022.0). *KDD '22: Proceedings of the 28th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Washington, DC, August 14-18*, (pp. 2429-2438) New York: ACM. <https://doi.org/10.1145/3534678.3539310> (Published)
- Towards aligning slides and video snippets: Mitigating sequence and content mismatches, by LIU, Ziyuan; LAUW, Hady W.. (2022.0). *23rd International Conference on Artificial Intelligence in Education, AIED 2022: Durham, July 27-31: Proceedings*, (pp. 533-539) Cham: Springer. [https://doi.org/10.1007/978-3-031-11644-5\\_45](https://doi.org/10.1007/978-3-031-11644-5_45) (Published)
- Dynamic topic models for temporal document networks, by ZHANG, Delvin Ce; LAUW, Hady W.. (2022.0). *Proceedings of the 39th International Conference on Machine Learning, PMLR 2022, USA*: <https://proceedings.mlr.press/v162/zhang22n.html> (Published)
- AmpSum: adaptive multiple-product summarization towards improving recommendation captions, by TROUNG, Quoc-Tuan; ZHAO, Tong; YUAN, Changhe; LI, Jin; CHAN, Jim; PANTEL, Soo-Min; LAUW, Hady W.. (2022.0). *Proceedings of the 2022 ACM Web Conference, Lyon, France, April 25 - 29*, (pp. 2978-2988) New York: Association for Computing Machinery. <https://doi.org/10.1145/3485447.3512018> (Published)
- Collaborative curating for discovery and expansion of visual clusters, by LE, Duy Dung; LAUW, Hady W.. (2022.0). *WSDM '22: Proceedings of the 15th ACM International Conference on Web Search and Data Mining, Virtual, February 21-25*, (pp. 544-552) New York: ACM. <https://doi.org/10.1145/3488560.3498504> (Published)
- Robust bipoly-matching for multi-granular entities, by LEE, Ween Jiann; TKACHENKO, Maksim; LAUW, Hady W.. (2021.0). *2021 IEEE International Conference on Data Mining ICDM: Auckland, Virtual, December 7-10: Proceedings*, (pp. 1192-1197) Piscataway, NJ: IEEE. <https://doi.org/10.1109/ICDM51629.2021.00143> (Published)
- Topic modeling for multi-aspect listwise comparison, by ZHANG, Delvin Ce; LAUW, Hady W.. (2021.0). *CIKM '21: Proceedings of the ACM International Conference on Information and Knowledge Management, November 1-5, Virtual*, (pp. 2507-2516) New York: ACM. <https://doi.org/10.1145/3459637.3482398> (Published)
- Multi-modal recommender systems: Hands-on exploration, by TRUONG, Quoc-Tuan; SALAH, Aghiles Salah; LAUW, Hady W.. (2021.0). *RecSys'21: Proceedings of the 15th ACM Conference on Recommender Systems, September 27 - October 1, Virtual*, (pp. 834-837) New York: ACM. <https://doi.org/10.1145/3460231.3473324> (Published)
- Towards source-aligned variational models for cross-domain recommendation, by SALAH, Aghiles; TRAN, Thanh-Binh; LAUW, Hady W.. (2021.0). *RecSys'21: Proceedings of the 15th ACM Conference on Recommender Systems, September 27 - October 1, Virtual*, (pp. 176-186) New York: ACM. <https://doi.org/10.1145/3460231.3474265> (Published)
- Representation learning on multi-layered heterogeneous network, by ZHANG, Delvin Ce; LAUW, Hady W.. (2021.0). *Machine Learning and Knowledge Discovery in Databases. Research Track: European Conference, ECML PKDD 2021, Bilbao, Spain, September 13-17: Proceedings*, (pp. 399-416) Cham: Springer. [https://doi.org/10.1007/978-3-030-86520-7\\_25](https://doi.org/10.1007/978-3-030-86520-7_25) (Published)

- Semi-supervised semantic visualization for networked documents, by ZHANG, Delvin Ce; LAUW, Hady W.. (2021.0). *Machine Learning and Knowledge Discovery in Databases. Research Track: European Conference, ECML PKDD 2021, Bilbao, Spain, September 13-17: Proceedings*, (pp. 762-778) Cham: Springer. [https://doi.org/10.1007/978-3-030-86523-8\\_46](https://doi.org/10.1007/978-3-030-86523-8_46) (Published)
- Sentiment-oriented metric learning for text-to-image retrieval, by TRUONG, Quoc-Tuan; LAUW, Hady W.. (2021.0). *Advances in Information Retrieval: 43rd European Conference on IR Research ECIR 2021, Virtual, March 28 - April 1: Proceedings*, (pp. 634-649) Cham: Springer. [https://doi.org/10.1007/978-3-030-72113-8\\_42](https://doi.org/10.1007/978-3-030-72113-8_42) (Published)
- Explainable recommendation with comparative constraints on product aspects, by LE, Trung-Hoang; LAUW, Hady W.. (2021.0). *WSDM '21: Proceedings of the 14th ACM International Conference on Web Search and Data Mining, Virtual, March 8-12*, (pp. 967-975) New York: ACM. <https://doi.org/10.1145/3437963.3441754> (Published)
- Bilateral variational autoencoder for collaborative filtering, by TRUONG, Quoc-Tuan; SALAH, Aghiles; LAUW, Hady W.. (2021.0). *WSDM '21: Proceedings of the 14th ACM International Conference on Web Search and Data Mining, Virtual, March 8-12*, (pp. 292-300) New York: ACM. <https://doi.org/10.1145/3437963.3441759> (Published)
- Visual sentiment analysis for review images with item-oriented and user-oriented CNN: Reproducibility companion paper, by TRUONG, Quoc-Tuan; LAUW, Hady W.; AUMULLER, Martin; NITTA, Naoko. (2020.0). *MM '20: Proceedings of the 28th ACM International Conference on Multimedia, Seattle, October 12-16*, (pp. 4444-4447) New York: ACM. <https://doi.org/10.1145/3394171.3414813> (Published)
- Stochastically robust personalized ranking for LSH recommendation retrieval, by LE, Dung D.; LAUW, Hady W.. (2020.0). *Proceedings of the 34th AAAI Conference on Artificial Intelligence 2020, New York, February 7-12*, (pp. 4594-4601) Menlo Park, CA: AAAI Press. <https://doi.org/10.1609/aaai.v34i04.5889> (Published)
- Topic modeling on document networks with adjacent-encoder, by ZHANG, Ce; LAUW, Hady W.. (2020.0). *Proceedings of the 34th AAAI Conference on Artificial Intelligence 2020, New York, February 7-12*, (pp. 6737-6745) Menlo Park, CA: AAAI Press. <https://doi.org/10.1609/aaai.v34i04.6152> (Published)
- Synthesizing aspect-driven recommendation explanations from reviews, by LE, Trung-Hoang; LAUW, Hady W.. (2020.0). *Proceedings of the 29th International Joint Conference on Artificial Intelligence IJCAI 2020, Virtual Conference, January 7-15*, (pp. 2427-2434) Los Altos, CA: IJCAI. <https://doi.org/10.24963/ijcai.2020/336> (Published)
- Correlation-sensitive next-basket recommendation, by LE, Duc-Trong; LAUW, Hady W.; FANG, Yuan. (2019.0). *Proceedings of the 28th International Joint Conference on Artificial Intelligence, Macau, China, 2019 August 10-16*, (pp. 2808-2814) Los Altos, CA: International Joint Conference on Artificial Intelligence. <https://doi.org/10.24963/ijcai.2019/389> (Published)
- Learning multiple maps from conditional ordinal triplets, by LE, Dung D.; LAUW, Hady W.. (2019.0). *Proceedings of the 28th International Joint Conference on Artificial Intelligence: Macau, China, 2019 August 10-16*, (pp. 2815-2822) Menlo Park, CA: AAAI Press. <https://doi.org/10.24963/ijcai.2019/390> (Published)
- Multimodal review generation for recommender systems, by TRUONG, Quoc Tuan; LAUW, Hady W.. (2019.0). *WWW '19: Proceedings of the World Wide Web Conference, San Francisco, May 13-17*, (pp. 1864-1874) New York: ACM. <https://doi.org/10.1145/3308558.3313463> (Published)
- VistaNet: Visual Aspect Attention Network for multimodal sentiment analysis, by TRUONG, Quoc-Tuan; LAUW, Hady W.. (2019.0). *Proceedings of the 33rd AAAI Conference on Artificial Intelligence 2019: Honolulu, January 27 - February 1*, (pp. 305-312) Menlo Park, CA: AAAI Press. <https://doi.org/10.1609/aaai.v33i01.3301305> (Published)
- CompareLDA: A topic model for document comparison, by TKACHENKO, Maksim; LAUW, Hady W.. (2019.0). *Proceedings of the 33rd AAAI Conference on Artificial Intelligence 2019: Honolulu, January 27 - February 1*, (pp. 7112-7119) Menlo Park, CA: AAAI Press. <https://doi.org/10.1609/aaai.v33i01.33017112> (Published)
- Multiperspective graph-theoretic similarity measure, by LE, Dung D.; LAUW, Hady W.. (2018.0). *CIKM 2018: Proceedings of the 27th ACM International Conference on Information and Knowledge Management, Torino, Italy, October 22-26*, (pp. 1223-1232) New York: ACM. <https://doi.org/10.1145/3269206.3271758>

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Probabilistic collaborative representation learning for personalized item recommendation, by SALAH, Aghiles; LAUW, Hady W.. (2018.0). *Uncertainty in Artificial Intelligence (UAI 2018): Monterey, CA, August 6-10: Proceedings*, (pp. 998-1008) Corvallis, OR: AUAI Press. (Published)

Searching for the X-factor: Exploring corpus subjectivity for word embeddings, by TKACHENKO, Maksim; CHIA, Chong Cher; LAUW, Hady W.. (2018.0). *Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics: Melbourne, Australia, 2018 July 15-20*, (pp. 1212-1221) Stroudsburg, PA: Association for Computational Linguistics. (Published)

A Bayesian latent variable model of user preferences with item context, by SALAH, Aghiles; LAUW, Hady W.. (2018.0). *Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence (IJCAI-18), Stockholm, Sweden, July 13-19*, (pp. 2667-2674) Vienna: IJCAI. <https://doi.org/10.24963/ijcai.2018/370> (Published)

Modeling contemporaneous basket sequences with twin networks for next-item recommendation, by LE, Duc Trong; LAUW, Hady W.; FANG, Yuan. (2018.0). *Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence (IJCAI-18): Stockholm, Sweden, July 13-19*, (pp. 3414-3420) Vienna: IJCAI. <https://doi.org/10.24963/ijcai.2018/474> (Published)

Collaborative topic regression with denoising AutoEncoder for content and community co-representation, by NGUYEN, Trong T.; LAUW, Hady W.. (2017.0). *CIKM '17: Proceedings of the ACM Conference on Information and Knowledge Management: Singapore, November 6-10*, (pp. 2231-2234) New York: ACM. <https://doi.org/10.1145/3132847.3133128> (Published)

SemVis: Semantic visualization for interactive topical analysis, by LE, Tuan M. V.; LAUW, Hady W.. (2017.0). *CIKM '17: Proceedings of the ACM Conference on Information and Knowledge Management: Singapore, November 6-10*, (pp. 2487-2490) New York: ACM. <https://doi.org/10.1145/3132847.3133181> (Published)

Indexable Bayesian personalized ranking for efficient top-k recommendation, by LE, Dung D.; LAUW, Hady W.. (2017.0). *CIKM '17: Proceedings of the ACM Conference on Information and Knowledge Management: Singapore, November 6-10*, (pp. 1389-1398) New York: ACM. <https://doi.org/10.1145/3132847.3132913> (Published)

Visual sentiment analysis for review images with item-oriented and user-oriented CNN, by TRUONG, Quoc-Tuan; LAUW, Hady W.. (2017.0). *MM '17: Proceedings of the ACM Multimedia Conference, Mountain View, CA, October 23-27*, (pp. 1274-1282) New York: ACM. <https://doi.org/10.1145/3123266.3123374> (Published)

Basket-sensitive personalized item recommendation, by LE, Duc-Trong; LAUW, Hady W.; FANG, Yuan. (2017.0). *IJCAI-17: Proceedings of the 26th International Joint Conference on Artificial Intelligence, Melbourne, Australia, August 19-25*, (pp. 2060-2066) Vienna: IJCAI. <https://doi.org/10.24963/ijcai.2017/286> (Published)

Semantic visualization for short texts with word embeddings, by LE, Van Minh Tuan; LAUW, Hady W.. (2017.0). *Proceedings of the 26th International Joint Conference on Artificial Intelligence IJCAI-17, Melbourne, Australia, August 19-25*, (pp. 2074-2080) Vienna: IJCAI. <https://doi.org/10.24963/ijcai.2017/288> (Published)

Plackett-Luce Regression Mixture model for heterogeneous rankings, by TKACHENKO, Maksim; LAUW, Hady W.. (2016.0). *CIKM 2016: Proceedings of the 25th ACM International on Conference on Information and Knowledge Management: Indianapolis, October 24-28*, (pp. 237-246) New York: ACM. <https://doi.org/10.1145/2983323.2983763> (Published)

Modeling sequential preferences with dynamic user and context factors, by LE, Duc-Trong; FANG, Yuan; LAUW, Hady W.. (2016.0). *Machine learning and knowledge discovery in databases: European Conference, ECML PKDD 2016, Riva del Garda, Italy, September 19-23*, (pp. 145-161) Cham: Springer. [https://doi.org/10.1007/978-3-319-46227-1\\_10](https://doi.org/10.1007/978-3-319-46227-1_10) (Published)

Representation learning for homophilic preferences, by NGUYEN, Trong T.; LAUW, Hady W.. (2016.0). *RecSys '16: Proceedings of the 10th ACM Conference on Recommender Systems: Boston, September 15-19*, (pp. 317-324) New York: ACM. <https://doi.org/10.1145/2959100.2959157> (Published)

Word clouds with latent variable analysis for visual comparison of documents, by LE, Tuan M. V.; LAUW, Hady W.. (2016.0). *Proceedings of the 25th International Joint Conference on Artificial Intelligence IJCAI*

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- Mining social dependencies in dynamic interaction networks, by CHUA, Freddy Chong-Tat; LAUW, Hady W.; LIM, Ee Peng. (2012.0). *12th SIAM International Conference on Data Mining 2012: Anaheim, CA, 26-28 April: Proceedings*, (pp. 720-731) Philadelphia, PA: SIAM. <https://doi.org/10.1137/1.9781611972825.62> (Published)
- CCRank: Parallel learning to rank with cooperative coevolution, by WANG, Shuaiqiang; GAO, Byron J.; WANG, Ke; LAUW, Hady W.. (2011.0). *Proceedings of the Twenty-fifth AAAI Conference on Artificial Intelligence: San Francisco, 7-11 August 2011*, (pp. 1249-1254) Menlo Park, CA: AAAI. (Published)
- Parallel learning to rank for information retrieval, by WANG, Shuaiqiang; GAO, Byron J.; WANG, Ke; LAUW, Hady W.. (2011.0). *SIGIR '11: Proceeding of the 34th International ACM SIGIR Conference on Research and Development in Information Retrieval: Beijing, July 24-28*, (pp. 1083-1084) New York: ACM. <https://doi.org/10.1145/2009916.2010060> (Published)
- Predicting item adoption using social correlation, by CHUA, Freddy Chong-Tat; LAUW, Hady W.; LIM, Ee Peng. (2011.0). *2011 SIAM International Conference on Data Mining: 28-30 April, Mesa, AZ: Proceedings*, (pp. 367-378) Philadelphia, PA: SIAM. <https://doi.org/10.1137/1.9781611972818.32> (Published)
- Detecting product review spammers using rating behaviors, by LIM, Ee Peng; LIU, Bing; JINDAL, Nitin; NGUYEN, Viet-An; LAUW, Hady W.. (2010.0). *CIKM '10: Proceedings of the 19th ACM International Conference on Information and Knowledge Management: Toronto, October 26-30*, (pp. 939-948) New York: ACM. <https://doi.org/10.1145/1871437.1871557> (Published)
- Symphony: A platform for search-driven applications, by SHAFER, John C.; AGRAWAL, Rakesh; LAUW, Hady W.. (2010.0). *2010 IEEE 26th International Conference on Data Engineering (ICDE): Long Beach, CA, March 1-6: Proceedings*, (pp. 1189-1192) Los Alamitos, CA: IEEE Computer Society. <http://doi.ieeecomputersociety.org/10.1109/ICDE.2010.5447767> (Published)
- Fuzzy matching of web queries to structured data, by CHENG, Tao; LAUW, Hady W.; PAPANIZOS, Stelios. (2010.0). *2010 IEEE 26th International Conference on Data Engineering ICDE: Long Beach, CA, March 1-6: Proceedings*, (pp. 713-716) Los Alamitos, CA: IEEE Computer Society. <http://doi.ieeecomputersociety.org/10.1109/ICDE.2010.5447817> (Published)
- On mining rating dependencies in online collaborative rating networks, by LAUW, Hady W.; LIM, Ee Peng; WANG, Ke. (2009.0). *Advances in Knowledge Discovery and Data Mining: 13th Pacific-Asia Conference, PAKDD 2009, Bangkok, Thailand, April 27-30, 2009: Proceedings*, (pp. 1054-1061) Berlin: Springer Verlag. [https://doi.org/10.1007/978-3-642-01307-2\\_113](https://doi.org/10.1007/978-3-642-01307-2_113) (Published)
- Leveraging social context for searching social media, by SMITH, Marc; BARASH, Vladimir; GETOOR, Lise; LAUW, Hady W.. (2008.0). *SSM '08: Proceedings of ACM Workshop on Search in Social Media: Napa Valley, CA, October 30*, (pp. 91-94) New York: ACM. <https://doi.org/10.1145/1458583.1458602> (Published)
- Predicting trusts among users of online communities: An epinions case study, by LIU, Haifeng; LIM, Ee Peng; LAUW, Hady W.; LE, Minh-Tam; SUN, Aixin; SRIVASTAVA, Jaideep; KIM, Young Ae. (2008.0). *EC '08: Proceedings of the 9th ACM conference on Electronic Commerce: Chicago, July 8-12*, (pp. 310-319) New York: ACM. <https://doi.org/10.1145/1386790.1386838> (Published)
- Visual analytics for supporting entity relationship discovery on text data, by DAI, Hanbo; LIM, Ee Peng; LAUW, Hady W.; PANG, Hwee Hwa. (2008.0). *IEEE International Conference on Intelligence and Security Informatics, ISI 2008 Workshops: PAISI, PACCF, and SOCO 2008, Taipei, Taiwan, 17 June*, (pp. 183-194) Cham: Springer Verlag. [https://doi.org/10.1007/978-3-540-69304-8\\_19](https://doi.org/10.1007/978-3-540-69304-8_19) (Published)
- Building a web of trust without explicit trust ratings, by KIM, Young Ae; LE, Minh-Tam; LAUW, Hady W.; LIM, Ee Peng; LIU, Haifeng; SRIVASTAVA, Jaideep. (2008.0). *IEEE 24th International Conference on Data Engineering Workshop: ICDEW 2008: Cancun, Mexico, 7-12 April: Proceedings*, (pp. 531-536) Piscataway, NJ: IEEE. <https://doi.org/10.1109/ICDEW.2008.4498374> (Published)
- On ranking controversies in Wikipedia: Models and evaluation, by VUONG, Ba-Quy; LIM, Ee Peng; SUN, Aixin; LE, Minh-Tam; LAUW, Hady Wirawan; CHANG, Kuiyu. (2008.0). *WSDM '08: Proceedings of the 2008 International Conference on Web Search and Data Mining: Stanford, CA, 2008 February 11-12*, (pp. 171-182) New York: ACM. <http://doi.org/10.1145/1341531.1341556> (Published)

On improving Wikipedia search using article quality, by HU, Meiqun; LIM, Ee Peng; SUN, Aixin; LAUW, Hady W.; VUONG, Ba-Quy. (2007.0). *WIDM '07: Proceedings of the 9th Annual ACM International Workshop on Web Information and Data Management: Lisbon, Portugal, November 9*, (pp. 145-152) New York: ACM. <https://doi.org/10.1145/1316902.1316926> (Published)

Measuring article quality in Wikipedia: Models and evaluation, by HU, Meiqun; LIM, Ee Peng; SUN, Aixin; LAUW, Hady W.; VUONG, Ba-Quy. (2007.0). *CIKM '07: Proceedings of the 16th ACM Conference on Information and Knowledge Management: Lisbon, Portugal, November 6-10*, (pp. 243-252) New York: ACM. <https://doi.org/10.1145/1321440.1321476> (Published)

Summarizing review scores of "unequal" reviewers, by LAUW, Hady W.; LIM, Ee Peng; WANG, Ke. (2007.0). *2007 SIAM International Conference on Data Mining: April 26-28, Minneapolis, MN: Proceedings*, (pp. 539-544) Philadelphia, PA: SIAM. <https://doi.org/10.1137/1.9781611972771.58> (Published)

TUBE (Text-cUBE) for discovering documentary evidence of associations among entities, by LAUW, Hady W.; LIM, Ee Peng; PANG, Hwee Hwa. (2007.0). *SAC '07: Proceedings of the 2007 ACM Symposium on Applied Computing, Seoul, Korea, 11-15 March*, (pp. 824-828) New York: ACM. <https://doi.org/10.1145/1244002.1244185> (Published)

Measuring qualities of articles contributed by online communities, by LIM, Ee Peng; VUONG, Ba-Quy; LAUW, Hady W.; SUN, Aixin. (2006.0). *IEEE/WIC/ACM International Conference on Web Intelligence: WI 2006: 18-22 December 2006, Hong Kong, China: Proceedings*, (pp. 81-87) Los Alamitos, CA: IEEE Computer Society. <http://doi.ieeecomputersociety.org/10.1109/WI.2006.115> (Published)

Bias and controversy: Beyond the statistical deviation, by LAUW, Hady W.; LIM, Ee Peng; WANG, Ke. (2006.0). *KDD 2006: Proceedings of the Twelfth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining: Philadelphia, PA, August 20-23*, (pp. 625-630) New York: ACM. <https://doi.org/10.1145/1150402.1150478> (Published)

Mining social network from spatio-temporal events, by LAUW, Hady W.; LIM, Ee Peng; TAN, Teck Tim; PANG, Hwee Hwa. (2005.0). *Workshop on Link Analysis, Counterterrorism and Security 2005: Proceedings, Newport Beach, 23 April*, (pp. 82-93) Kingston, Canada: Queen's University. (Published)

## Conference Papers

Estimating the quality of postings in the real-time web, by LAUW, Hady W.; NTOULAS, Alexandros; KENTHAPADI, Krishnam. (2010.0). *Workshop on Search in Social Media 3rd SSM 2010 co-located with WSDM, February 3*, New York. (Presented)

Symphony: Enabling search-driven applications, by SHAFER, John C.; AGRAWAL, Rakesh; LAUW, Hady W.. (2009.0). *Workshop on Using Search Engine Technology for Information Management USETIM 2009 co-located with VLDB, August 24*, Lyon, France. (Published)

A multitude of opinions: Mining online rating data, by LAUW, Hady W.; LIM, Ee Peng. (2007.0). *National Science Foundation Symposium on Next Generation of Data Mining and Cyber-Enabled Discovery for Innovation NGDM 2007, October 10-12*, Baltimore, MD. (Presented)

## **Research Grants**

### Singapore Management University

Slide++: Automatic Augmentation of Academic Slides Towards AI-Enabled Student-Centred Learning, Tertiary Education Research Fund (TRF), Ministry of Education (MOE) , PI (Project Level): Hady W. LAUW, 2022, S\$262,196

Lifelong Learning for Recommender Systems: Continual, Cross- Domain, and Cross-Platform Approaches, Research Programme, AI Singapore , PI (Project Level): Hady W. LAUW, 2022, S\$885,240

Universal Pre-training of Graph Neural Networks, Academic Research Fund (AcRF) Tier 2, Ministry of Education (MOE) , PI (Project Level): FANG Yuan , Co-PI (Project Level): Jing JIANG, 2022, S\$676,468

One-Shot Learning: A Crucial Learning Paradigm Towards Human-like Learning, AI Singapore Research Programme, AI Singapore , PI (Project Level): FANG Yuan , Co-PI (Project Level): Steven HOI, 2018, S\$497,757.6

**Dimensionality Reduction for Recommender Systems:**

Unified Latent Co-representation of Multi-Modal Preference Signals, NRF Fellowship, National Research Foundation (NRF) , PI (Project Level): Hady W. LAUW, 2016, S\$2,704,332

Closed-Loop Framework for Real-Time Retrieval of Personalized Recommendations, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Hady W. LAUW, 2018, S\$100,000

Other Institutions

ThriftCity, MDGF, MOE Decentralised Gap Funding PI (Project Level): Hady W. LAUW, 2021, SGD250,000

**Intellectual Property**

Application/Filed: Hady W. LAUW, "Context-Aware Query Recommendations, by Alexandros NTOULAS, Heasoo HWANG, Lise GETOOR, Stelios PAPANIZOS and Hady W. LAUW", 16611

Granted: Hady W. LAUW, "Generating Synonyms Based on Query Log Data, by Stelios PAPANIZOS, Tao CHENG and Hady W. LAUW", 16612

**TEACHING**

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**Teaching Areas**

Computational Thinking

**Courses Taught**

Singapore Management University

Undergraduate Programmes :

Computational Thinking

Data Structures and Algorithms

Postgraduate Professional Programmes :

Project

Recommender Systems

Postgraduate Research Programmes :

Empirical Research Project 1

Empirical Research Project 2

Empirical Research Project 3

Empirical Research Project 4

Machine Learning

## THESES AND DISSERTATIONS

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### Theses and Dissertations Supervised

#### Singapore Management University

Supervisor, "Preference Learning and Similarity Learning Perspectives on Personalized Recommendation", Dissertation by LE Duy Dung, PhD in Computer Science, Singapore Management University, 2019

Supervisor, "Modeling Sequential and Basket-Oriented Associations for Top-K Recommendation", Dissertation by LE DUC TRONG, PhD in Information Systems, Singapore Management University, 2019

Supervisor, "Comparison Mining from Text", Dissertation by Maksim TKACHENKO, PhD in Information Systems, Singapore Management University, 2018

Supervisor, "Entity Summarization of Review and Micro-Reviews", Dissertation by NGUYEN THANH SON, PhD in Information Systems, Singapore Management University, 2018

Supervisor, "Mining Diverse Consumer Preferences for Bundling and Recommendation", Dissertation by DO HA LOC, PhD in Information Systems, Singapore Management University, 2017

Supervisor, "Probabilistic Models for Semantic Visualization and its Applications", Dissertation by LE VAN MINH TUAN, PhD in Information Systems, Singapore Management University, 2017

### Theses and Dissertations Assessed

#### Singapore Management University

Committee Member, "Social Software Development: Insights and Solutions", Dissertation by ABHISHEK SHARMA, PhD in Information Systems, Singapore Management University, 2019

Committee Member, "Learning Latent Characteristics of Locations-based Social Networking Data", Dissertation by DOAN THANH NAM, PhD in Information Systems, Singapore Management University, 2018

Committee Member, "Overfitting in Automated Program Repair: Challenges and Solutions", Dissertation by LE DINH XUAN BACH, PhD in Information Systems, Singapore Management University, 2018

Committee Member, "Recommending APIs for Software Evolution", Dissertation by FERDIAN THUNG, PhD in Information Systems, Singapore Management University, 2018

Committee Member, "Online Learning with Nonlinear Models", Dissertation by DOYEN SAHOO, PhD in Information Systems, Singapore Management University, 2018

Committee Member, "Fusion Based Approaches for Software Fault Localization and Specification Mining", Dissertation by LE BUI TIEN DUY, PhD in Information Systems, Singapore Management University, 2017

Committee Member, "Aspect Discovery from Product Reviews", Dissertation by DING YING, PhD in Information Systems, Singapore Management University, 2017

Committee Member, "Modeling Adoption Dynamics in Social Networks", Dissertation by LUU MINH DUC, PhD in Information Systems, Singapore Management University, 2017

Committee Member, "Event Identification and Analysis on Twitter", Dissertation by DIAO QIMING, PhD in Information Systems, Singapore Management University, 2015

#### Other Institutions

Committee Member, "Statistical And Deep Learning Models For Software Engineering Corpora",  
Dissertation by HOANG Van Duc Thong, Singapore Management University, 2020

## UNIVERSITY SERVICE

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### Singapore Management University

Committee Member, Faculty Senate, Mar 2021 - Present

## EXTERNAL SERVICE – PROFESSIONAL

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Member, Senior Program Committee, International Conference on Database Systems for Advanced Applications (DASFAA), 2023 - 2024

Member, Senior Program Committee, SIAM Conference on Data Mining (SDM), 2023 - 2024

Program Chair, Organizing Committee, The ACM Web Conference 2024, 2023 - 2024

Member, Senior Program Committee, Pacific Asia Conference on Knowledge Discovery and Data Mining (PAKDD), 2023 - 2024

Communication Chair, Organizing Committee, The ACM Web Conference 2023, 2022 - 2023

Chairperson, Organizing Committee, 16th ACM International Conference on Web Search and Data Mining (WSDM), 2022 - 2023

Committee Chair, Program Committee, Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), 2020

Reviewer Journal Article, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2020 - 2022

Reviewer Journal Article, IEEE Transactions on Multimedia, 2020 - 2022

Member, Senior Program Committee, AAI Conference on Artificial Intelligence (AAAI), 2020 - 2022

Member, Senior Program Committee, International Joint Conference on Artificial Intelligence (IJCAI), 2020 - 2023

Committee Chair, Workshop Co-Chair, Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), 2019

Committee Chair, Organizing Committee, International Conference on Advanced Data Mining and Applications (ADMA), 2017

Committee Chair, Data Challenges Co-chair, ACM International Conference on Information and Knowledge Management (CIKM), 2017

Member, Program Committee, AAI Conference on Artificial Intelligence (AAAI), 2016 - 2019

Member, Program Committee, International Joint Conference on Artificial Intelligence (IJCAI), 2016

Member, Program Committee, ACM Conference on Online Social Networks (COSN), 2015

Reviewer Journal Article, The International Journal on Very Large Data Bases (VLDBJ), 2015

Reviewer Journal Article, ACM Transactions on the Web (TWEB), 2015 - 2016

Member, Program Committee, Asia Pacific Web Conference (APWeb), 2015

Member, Program Committee (years: 2014, 2017-2020), International AAAI Conference on Weblogs and Social Media (ICWSM), 2014 - 2018

Member, Program Committee, IEEE International Conference on Data Science and Advanced Analytics (DSAA), 2014 - 2017

Committee Chair, Tutorials Co-Chair 2017, Panels Co-Chair 2015, Sponsorship Co-Chair 2013, IEEE/ACM International Conference on Social Network Analysis and Mining (ASONAM), 2013

Reviewer Journal Article, IEEE Communications Magazine (COMMAG), 2012 - 2015

Section Co-Editor, Encyclopedia of Social Network Analysis and Mining (ESNAM), 2012 - 2013

Member, Program Committee (years: 2012, 2015-2016, 2018-2019), Pacific Asia Conference on Knowledge Discovery and Data Mining (PAKDD), 2012 - 2019

Reviewer Journal Article, ACM Transactions on Knowledge Discovery from Data (TKDD), 2012 - 2023

Member, Program Committee, ACM Conference on Web Search and Data Mining (WSDM), 2012

Member, Program Committee (years: 2011, 2014, 2018-2023), SIAM Conference on Data Mining (SDM), 2011 - 2023

Member, Program Committee, IEEE International Conference on Data Engineering (ICDE), 2011

Member, Program Committee (2022-2023: Senior PC, 2019: IR Track, 2013-2016, 2018: Web Mining Track, 2011: Demo Track), International World Wide Web Conference (WWW), 2011 - 2022

Member, Program Committee (years: 2011, 2013, 2014), International Conference on Database Systems for Advanced Applications (DASFAA), 2011 - 2014

Committee Chair, Local Arrangements Co-Chair, International Conference on Social Informatics (SocInfo), 2011

Reviewer Journal Article, Statistical Analysis & Data Mining (SAM), 2011 - 2014

Reviewer Journal Article, IEEE Transactions on Knowledge and Data Engineering (TKDE), 2011 - 2023

Member, Program Committee, ACM Conference on Electronic Commerce (EC), 2010

Reviewer Journal Article, ACM Transactions on Information Systems (TOIS), 2010 - 2014

Member, Program Committee (years: 2010 - 2011, 2014, 2018 - 2019), IEEE International Conference on Data Mining (ICDM), 2010 - 2018

Member, Program Committee (2018: Short Paper Track, 2014-2016: Knowledge Management Track, 2013: Database Track, 2010-2011: Information Retrieval Track, 2011: Poster Track), ACM International Conference on Information and Knowledge Management (CIKM), 2010 - 2018

Member, Program Committee (Demo Track), European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECMLPKDD), 2010 - 2011

Editor Associate Editor, ACM Transactions on Intelligent Systems and Technology (TIST), 2010 - 2023

Member, Program Committee, International Conference on Web Information System Engineering (WISE), 2010 - 2013

Member, Program Committee (Poster Track), ACM SIGIR Conference (SIGIR), 2010

Reviewer Journal Article, Social Network Analysis and Mining (SNAM), 2010 - 2016

Member, Program Committee, ACM Conference on Knowledge Discovery and Data Mining (KDD), 2010 - 2022

Member, Program Committee, International Conference on Advanced Social Networks Analysis and Mining (ASONAM), 2010 - 2014

Reviewer Journal Article, IEEE Internet Computing, 2009