

## Book and Book Chapters

- [1] A. Mahmood, **Wei Emma Zhang**, Q. Z. Sheng, S. A. Siddiqui, and A. Aljubairy. “Trust Management for Software-Defined Heterogeneous Vehicular Ad Hoc Networks”. In: *Security, Privacy and Trust in the IoT Environment*. Ed. by Z. Mahmood. Springer, 2019, pp. 203–226. DOI: [10.1007/978-3-030-18075-1\\_10](https://doi.org/10.1007/978-3-030-18075-1_10). URL: [https://doi.org/10.1007/978-3-030-18075-1\\_10](https://doi.org/10.1007/978-3-030-18075-1_10).
- [2] A. Mahmood, B. Butler, Q. Z. Sheng, **Wei Emma Zhang**, and B. Jennings. “Need of Ambient Intelligence for Next-Generation Connected and Autonomous Vehicles”. In: *Guide to Ambient Intelligence in the IoT Environment - Principles, Technologies and Applications*. Ed. by Z. Mahmood. Computer Communications and Networks. Springer, 2019, pp. 133–151. DOI: [10.1007/978-3-030-04173-1\\_6](https://doi.org/10.1007/978-3-030-04173-1_6). URL: [https://doi.org/10.1007/978-3-030-04173-1\\_6](https://doi.org/10.1007/978-3-030-04173-1_6).
- [3] **Wei Emma Zhang** and Q. Z. Sheng. *Managing Data From Knowledge Bases: Querying and Extraction*. Springer, 2018. ISBN: 978-3-319-94934-5. DOI: [10.1007/978-3-319-94935-2](https://doi.org/10.1007/978-3-319-94935-2). URL: <https://doi.org/10.1007/978-3-319-94935-2>.
- [4] **Wei Emma Zhang** and Q. Z. Sheng. “Searching the Big Data: Practices and Experiences in Efficiently Querying Knowledge Bases”. In: *Handbook of Big Data Technologies*. Ed. by A. Y. Zomaya and S. Sakr. Springer, 2017, pp. 429–453. DOI: [10.1007/978-3-319-49340-4\\_13](https://doi.org/10.1007/978-3-319-49340-4_13). URL: [https://doi.org/10.1007/978-3-319-49340-4\\_13](https://doi.org/10.1007/978-3-319-49340-4_13).
- [5] Q. Z. Sheng, J. Yu, **Wei Emma Zhang**, S. Wang, X. Li, and B. Benatallah. “Designing and Building Context-Aware Services: The ContextServ Project”. In: *Next-Gen Digital Services. A Retrospective and Roadmap for Service Computing of the Future - Essays Dedicated to Michael Papazoglou on the Occasion of His 65th Birthday and His Retirement*. Ed. by M. Aiello, A. Bouguettaya, D. A. Tamburri, and W. van den Heuvel. Vol. 12521. Lecture Notes in Computer Science. Springer, 2021, pp. 138–152. DOI: [10.1007/978-3-030-73203-5\\_11](https://doi.org/10.1007/978-3-030-73203-5_11). URL: [https://doi.org/10.1007/978-3-030-73203-5\\_11](https://doi.org/10.1007/978-3-030-73203-5_11).

## Other Edited Books/Proceedings/Special Issues

- [6] X. Liu, M. Mrissa, L. Zhang, D. Benslimane, A. Ghose, Z. Wang, A. Bucchiarone, **Wei Zhang**, Y. Zou, and Q. Yu, eds. *Service-Oriented Computing - ICSOC 2018 Workshops - ADMS, ASOCA, ISYyCC, CloTS, DDBS, and NLS4IoT, Hangzhou, China, November 12-15, 2018, Revised Selected Papers*. Vol. 11434. Lecture Notes in Computer Science. Springer, 2019. ISBN: 978-3-030-17641-9. DOI: [10.1007/978-3-030-17642-6](https://doi.org/10.1007/978-3-030-17642-6). URL: <https://doi.org/10.1007/978-3-030-17642-6>.
- [7] A. Beheshti, M. Hashmi, H. Dong, and **Wei Emma Zhang**, eds. *Service Research and Innovation - 5th and 6th Australasian Symposium, ASSRI 2015 and ASSRI 2017, Sydney, NSW, Australia, November 2-3, 2015, and October 19-20, 2017, Revised Selected Papers*. Vol. 234. Lecture Notes in Business Information Processing. Springer, 2018. ISBN: 978-3-319-76586-0. DOI: [10.1007/978-3-319-76587-7](https://doi.org/10.1007/978-3-319-76587-7). URL: <https://doi.org/10.1007/978-3-319-76587-7>.
- [8] Q. Z. Sheng, **Wei Emma Zhang**, and E. M. Shakshuki. “Practices and applications in ambient and intelligent information systems”. In: *Pers. Ubiquitous Comput.* 21.6 (2017), pp. 1039–1040. DOI: [10.1007/s00779-017-1037-x](https://doi.org/10.1007/s00779-017-1037-x). URL: <https://doi.org/10.1007/s00779-017-1037-x>.

## Journal Articles

- [9] H. Zhuang, **Wei Emma Zhang**, W. Chen, J. Yang, and Q. Z. Sheng. “Improving Faithfulness and Factuality with Contrastive Learning in Explainable Recommendation”. In: *ACM Trans. Intell. Syst. Technol.* Accepted on Feb 2024 (2024). DOI: <https://doi.org/10.1145/3653984>. URL: <https://dl.acm.org/doi/10.1145/3653984>.
- [10] C. Zhang, W. Chen, **Wei Emma Zhang**, and M. Xu. “Mitigating the Impact of Inaccurate Feedback in Dynamic Learning-to-Rank: A Study of Overlooked Interesting Items”. In: *ACM Trans. Intell. Syst. Technol.* Accepted on Feb 2024 (2024). DOI: <https://doi.org/10.1145/3653983>. URL: <https://dl.acm.org/doi/10.1145/3653983>.

- [11] S. Sagar, A. Mahmood, Q. Z. Sheng, **Wei Emma Zhang**, Y. Zhang, and J. K. Pabani. “Understanding the trustworthiness management in the social Internet of Things: A survey”. In: *Comput. Networks* 251 (2024), p. 110611. DOI: [10.1016/J.COMNET.2024.110611](https://doi.org/10.1016/J.COMNET.2024.110611). URL: <https://doi.org/10.1016/j.comnet.2024.110611>.
- [12] Z. Li, Y. Xie, **Wei Emma Zhang**, P. Wang, L. Zou, F. Li, X. Luo, and C. Li. “Disentangle interest trend and diversity for sequential recommendation”. In: *Inf. Process. Manag.* 61.2 (2024), p. 103619. DOI: [10.1016/J.IPM.2023.103619](https://doi.org/10.1016/J.IPM.2023.103619). URL: <https://doi.org/10.1016/j.ipm.2023.103619>.
- [13] Z. Yang, Y. Liu, G. Wen, X. Xia, **Wei Emma Zhang**, and T. Chen. “Object Detection in Remote Sensing Images With Parallel Feature Fusion and Cascade Global Attention Head”. In: *IEEE Geosci. Remote. Sens. Lett.* 21 (2024), pp. 1–5. DOI: [10.1109/LGRS.2024.3385231](https://doi.org/10.1109/LGRS.2024.3385231). URL: <https://doi.org/10.1109/LGRS.2024.3385231>.
- [14] Z. Yang, X. Xia, Y. Liu, G. Wen, **Wei Emma Zhang**, and L. Guo. “LPST-Det: Local-Perception-Enhanced Swin Transformer for SAR Ship Detection”. In: *Remote. Sens.* 16.3 (2024), p. 483. DOI: [10.3390/RS16030483](https://doi.org/10.3390/RS16030483). URL: <https://doi.org/10.3390/rs16030483>.
- [15] Z. Yang, Y. Shen, L. Hou, **Wei Emma Zhang**, and T. Chen. “S3Seg: A Three-Stage Unsupervised Foreground and Background Segmentation Network”. In: *IEEE Signal Process. Lett.* 31 (2024), pp. 1484–1488. DOI: [10.1109/LSP.2024.3404348](https://doi.org/10.1109/LSP.2024.3404348). URL: <https://doi.org/10.1109/LSP.2024.3404348>.
- [16] T. Cai, Q. Lei, Q. Z. Sheng, N. Cui, S. Yang, J. Yang, **Wei Emma Zhang**, and A. Mahmood. “Reconnecting the Estranged Relationships: Optimizing the Influence Propagation in Evolving Networks”. In: *IEEE Trans. Knowl. Data Eng.* 36.5 (2024), pp. 2151–2165. DOI: [10.1109/TKDE.2023.3316268](https://doi.org/10.1109/TKDE.2023.3316268). URL: <https://doi.org/10.1109/TKDE.2023.3316268>.
- [17] C. Ma, **Wei Emma Zhang**, M. Guo, H. Wang, and Q. Z. Sheng. “Multi-document Summarization via Deep Learning Techniques: A Survey”. In: *ACM Comput. Surv.* 55.5 (2023), 102:1–102:37. DOI: [10.1145/3529754](https://doi.org/10.1145/3529754). URL: <https://doi.org/10.1145/3529754>.
- [18] D. H. Tran, Q. Z. Sheng, **Wei Emma Zhang**, A. Aljubairy, M. Zaib, S. A. Hamad, N. H. Tran, and N. L. D. Khoa. “HeteGraph: graph learning in recommender systems via graph convolutional networks”. In: *Neural Comput. Appl.* 35.18 (2023), pp. 13047–13063. DOI: [10.1007/S00521-020-05667-Z](https://doi.org/10.1007/S00521-020-05667-Z). URL: <https://doi.org/10.1007/s00521-020-05667-z>.
- [19] Z. Yang, X. Jia, Y. Shen, Y. Yang, H. Li, and **Wei Emma Zhang**. “AMGAN: An Attribute-Matched Generative Adversarial Network for UAV Virtual Sample Generation”. In: *Neural Process. Lett.* 55.6 (2023), pp. 8131–8149. DOI: [10.1007/S11063-023-11304-2](https://doi.org/10.1007/S11063-023-11304-2). URL: <https://doi.org/10.1007/s11063-023-11304-2>.
- [20] A. Mahmood, Q. Z. Sheng, **Wei Emma Zhang**, Y. Wang, and S. Sagar. “Toward a Distributed Trust Management System for Misbehavior Detection in the Internet of Vehicles”. In: *ACM Trans. Cyber Phys. Syst.* 7.3 (2023), 16:1–16:25. DOI: [10.1145/3594637](https://doi.org/10.1145/3594637). URL: <https://doi.org/10.1145/3594637>.
- [21] T. Cai, S. Yang, J. Li, Q. Z. Sheng, J. Yang, X. Wang, **Wei Emma Zhang**, and L. Gao. “Incremental Graph Computation: Anchored Vertex Tracking in Dynamic Social Networks”. In: *IEEE Trans. Knowl. Data Eng.* 35.7 (2023), pp. 7030–7044. DOI: [10.1109/TKDE.2022.3199494](https://doi.org/10.1109/TKDE.2022.3199494). URL: <https://doi.org/10.1109/TKDE.2022.3199494>.
- [22] S. Sagar, A. Mahmood, K. Wang, Q. Z. Sheng, J. K. Pabani, and **Wei Emma Zhang**. “Trust-SIoT: Toward Trustworthy Object Classification in the Social Internet of Things”. In: *IEEE Trans. Netw. Serv. Manag.* 20.2 (2023), pp. 1210–1223. DOI: [10.1109/TNSM.2023.3247831](https://doi.org/10.1109/TNSM.2023.3247831). URL: <https://doi.org/10.1109/TNSM.2023.3247831>.
- [23] Y. Shu, J. Zhang, **Wei Emma Zhang**, D. Zuo, and Q. Z. Sheng. “IQSrec: An Efficient and Diversified Skyline Services Recommendation on Incomplete QoS”. In: *IEEE Trans. Serv. Comput.* 16.3 (2023), pp. 1934–1948. DOI: [10.1109/TSC.2022.3189503](https://doi.org/10.1109/TSC.2022.3189503). URL: <https://doi.org/10.1109/TSC.2022.3189503>.
- [24] D. H. Tran, Q. Z. Sheng, **Wei Emma Zhang**, N. H. Tran, and N. L. D. Khoa. “CupMar: A deep learning model for personalized news recommendation based on contextual user-profile and multi-aspect article representation”. In: *World Wide Web (WWW)* 26.2 (2023), pp. 713–732. DOI: [10.1007/S11280-022-01059-6](https://doi.org/10.1007/S11280-022-01059-6). URL: <https://doi.org/10.1007/s11280-022-01059-6>.

- [25] W. Chen, **Wei Emma Zhang**, and L. Yue. “Death comes but why: A multi-task memory-fused prediction for accurate and explainable illness severity in ICUs”. In: *World Wide Web (WWW)* 26.6 (2023), pp. 4025–4045. DOI: [10.1007/S11280-023-01211-W](https://doi.org/10.1007/S11280-023-01211-W). URL: <https://doi.org/10.1007/s11280-023-01211-w>.
- [26] D. H. Tran, Q. Z. Sheng, **Wei Emma Zhang**, S. A. Hamad, N. L. D. Khoa, and N. H. Tran. “Deep Conversational Recommender Systems: Challenges and Opportunities”. In: *Computer* 55.4 (2022), pp. 30–39. DOI: [10.1109/MC.2020.3045426](https://doi.org/10.1109/MC.2020.3045426). URL: <https://doi.org/10.1109/MC.2020.3045426>.
- [27] A. Mahmood, S. A. Siddiqui, Q. Z. Sheng, **Wei Emma Zhang**, H. Suzuki, and W. Ni. “Trust on wheels: Towards secure and resource efficient IoV networks”. In: *Computing* 104.6 (2022), pp. 1337–1358. DOI: [10.1007/S00607-021-01040-7](https://doi.org/10.1007/S00607-021-01040-7). URL: <https://doi.org/10.1007/s00607-021-01040-7>.
- [28] Z. Hussain, Q. Z. Sheng, **Wei Emma Zhang**, J. Ortiz, and S. Pouriyeh. “Non-invasive Techniques for Monitoring Different Aspects of Sleep: A Comprehensive Review”. In: *ACM Trans. Comput. Heal.* 3.2 (2022), 24:1–24:26. DOI: [10.1145/3491245](https://doi.org/10.1145/3491245). URL: <https://doi.org/10.1145/3491245>.
- [29] M. Zaib, **Wei Emma Zhang**, Q. Z. Sheng, A. Mahmood, and Y. Zhang. “Conversational question answering: a survey”. In: *Knowl. Inf. Syst.* 64.12 (2022), pp. 3151–3195. DOI: [10.1007/S10115-022-01744-Y](https://doi.org/10.1007/S10115-022-01744-Y). URL: <https://doi.org/10.1007/s10115-022-01744-y>.
- [30] Y. Qu, **Wei Emma Zhang**, J. Yang, L. Wu, and J. Wu. “Knowledge-aware document summarization: A survey of knowledge, embedding methods and architectures”. In: *Knowl. Based Syst.* 257 (2022), p. 109882. DOI: [10.1016/J.KNOSYS.2022.109882](https://doi.org/10.1016/J.KNOSYS.2022.109882). URL: <https://doi.org/10.1016/j.knosys.2022.109882>.
- [31] Z. Yang, J. Kong, B. Zheng, M. Li, **Wei Emma Zhang**, and T. Chen. “Object Detection in Remote Sensing Images With Balanced Rotational and Horizontal Bounding Boxes”. In: *IEEE Geosci. Remote. Sens. Lett.* 19 (2022), pp. 1–5. DOI: [10.1109/LGRS.2022.3211325](https://doi.org/10.1109/LGRS.2022.3211325). URL: <https://doi.org/10.1109/LGRS.2022.3211325>.
- [32] Y. Zhang, R. Zhao, Y. Wang, H. Chen, A. Mahmood, M. Zaib, **Wei Emma Zhang**, and Q. Z. Sheng. “Towards employing native information in citation function classification”. In: *Scientometrics* 127.11 (2022), pp. 6557–6577. DOI: [10.1007/S11192-021-04242-0](https://doi.org/10.1007/S11192-021-04242-0). URL: <https://doi.org/10.1007/s11192-021-04242-0>.
- [33] Z. Liu, Q. Z. Sheng, X. Xu, D. Chu, and **Wei Emma Zhang**. “Context-Aware and Adaptive QoS Prediction for Mobile Edge Computing Services”. In: *IEEE Trans. Serv. Comput.* 15.1 (2022), pp. 400–413. DOI: [10.1109/TSC.2019.2944596](https://doi.org/10.1109/TSC.2019.2944596). URL: <https://doi.org/10.1109/TSC.2019.2944596>.
- [34] **Wei Emma Zhang**, R. Chang, M. Zhu, and J. Zuo. “Time Series Visualization and Forecasting from Australian Building and Construction Statistics”. In: *Applied Sciences* 12.5 (2022). ISSN: 2076-3417. DOI: [10.3390/app12052420](https://doi.org/10.3390/app12052420). URL: <https://www.mdpi.com/2076-3417/12/5/2420>.
- [35] K. Xing, P. Zhou, J. Li, M. Liu, and **Wei Emma Zhang**. “Inhibitory Effect of PD-1/PD-L1 and Blockade Immunotherapy in Leukemia”. In: *Comb Chem High Throughput Screen.* 25.9 (2022), pp. 1399–1410. DOI: [10.2174/1574893616666210707101516](https://doi.org/10.2174/1574893616666210707101516). URL: <https://doi.org/10.2174/1574893616666210707101516>.
- [36] **Wei Emma Zhang**, A. Shemshadi, Q. Z. Sheng, Y. Qin, X. Xu, and J. Yang. “A User-Oriented Taxi Ridesharing System with Large-Scale Urban GPS Sensor Data”. In: *IEEE Trans. Big Data* 7.2 (2021), pp. 327–340. DOI: [10.1109/TBDATA.2018.2872450](https://doi.org/10.1109/TBDATA.2018.2872450). URL: <https://doi.org/10.1109/TBDATA.2018.2872450>.
- [37] V. K. Nguyen, **Wei Emma Zhang**, and A. Mahmood. “Semi-supervised Intrusive Appliance Load Monitoring in Smart Energy Monitoring System”. In: *ACM Trans. Sens. Networks* 17.3 (2021), 32:1–32:20. DOI: [10.1145/3448415](https://doi.org/10.1145/3448415). URL: <https://doi.org/10.1145/3448415>.
- [38] A. Aljubairy, **Wei Emma Zhang**, A. Shemshadi, A. Mahmood, and Q. Z. Sheng. “A system for effectively predicting flight delays based on IoT data”. In: *Computing* 102.9 (2020), pp. 2025–2048. DOI: [10.1007/S00607-020-00794-W](https://doi.org/10.1007/S00607-020-00794-W). URL: <https://doi.org/10.1007/s00607-020-00794-w>.
- [39] S. A. Hamad, Q. Z. Sheng, **Wei Emma Zhang**, and S. Nepal. “Realizing an Internet of Secure Things: A Survey on Issues and Enabling Technologies”. In: *IEEE Commun. Surv. Tutorials* 22.2 (2020), pp. 1372–1391. DOI: [10.1109/COMST.2020.2976075](https://doi.org/10.1109/COMST.2020.2976075). URL: <https://doi.org/10.1109/COMST.2020.2976075>.

- [40] Z. Hussain, Q. Z. Sheng, and **Wei Emma Zhang**. “A review and categorization of techniques on device-free human activity recognition”. In: *J. Netw. Comput. Appl.* 167 (2020), p. 102738. DOI: [10.1016/J.JNCA.2020.102738](https://doi.org/10.1016/j.jnca.2020.102738). URL: <https://doi.org/10.1016/j.jnca.2020.102738>.
- [41] **Wei Emma Zhang**, Q. Z. Sheng, A. Alhazmi, and C. Li. “Adversarial Attacks on Deep-learning Models in Natural Language Processing: A Survey”. In: *ACM Trans. Intell. Syst. Technol.* 11.3 (2020), 24:1–24:41. DOI: [10.1145/3374217](https://doi.org/10.1145/3374217). URL: <https://doi.org/10.1145/3374217>.
- [42] X. S. Fang, Q. Z. Sheng, X. Wang, **Wei Emma Zhang**, A. H. H. Ngu, and J. Yang. “From Appearance to Essence: Comparing Truth Discovery Methods without Using Ground Truth”. In: *ACM Trans. Intell. Syst. Technol.* 11.6 (2020), 74:1–74:24. DOI: [10.1145/3411749](https://doi.org/10.1145/3411749). URL: <https://doi.org/10.1145/3411749>.
- [43] Z. Hussain, D. Waterworth, M. Aldeer, **Wei Emma Zhang**, and Q. Z. Sheng. *Dataset: Tooth-brushing Data and Analysis of its Potential Use in Human Activity Recognition Applications (Version 1)*. Oct. 2020. DOI: [10.5281/ZENODO.4118900](https://doi.org/10.5281/ZENODO.4118900). URL: <https://doi.org/10.5281/zenodo.4118900>.
- [44] N. K. Tran, Q. Z. Sheng, M. A. Babar, L. Yao, **Wei Emma Zhang**, and S. Dustdar. “Internet of things search engine”. In: *Commun. ACM* 62.7 (2019), pp. 66–73. DOI: [10.1145/3284763](https://doi.org/10.1145/3284763). URL: <https://doi.org/10.1145/3284763>.
- [45] A. Mahmood, **Wei Emma Zhang**, and Q. Z. Sheng. “Software-Defined Heterogeneous Vehicular Networking: The Architectural Design and Open Challenges”. In: *Future Internet* 11.3 (2019), p. 70. DOI: [10.3390/FI11030070](https://doi.org/10.3390/FI11030070). URL: <https://doi.org/10.3390/fi11030070>.
- [46] L. Yao, Q. Z. Sheng, X. Wang, **Wei Emma Zhang**, and Y. Qin. “Collaborative Location Recommendation by Integrating Multi-dimensional Contextual Information”. In: *ACM Trans. Internet Techn.* 18.3 (2018), 32:1–32:24. DOI: [10.1145/3134438](https://doi.org/10.1145/3134438). URL: <https://doi.org/10.1145/3134438>.
- [47] **Wei Emma Zhang**, Q. Z. Sheng, L. Yao, K. Taylor, A. Shemshadi, and Y. Qin. “A Learning-Based Framework for Improving Querying on Web Interfaces of Curated Knowledge Bases”. In: *ACM Trans. Internet Techn.* 18.3 (2018), 35:1–35:20. DOI: [10.1145/3155806](https://doi.org/10.1145/3155806). URL: <https://doi.org/10.1145/3155806>.
- [48] **Wei Emma Zhang**, Q. Z. Sheng, J. H. Lau, E. Abebe, and W. Ruan. “Duplicate Detection in Programming Question Answering Communities”. In: *ACM Trans. Internet Techn.* 18.3 (2018), 37:1–37:21. DOI: [10.1145/3169795](https://doi.org/10.1145/3169795). URL: <https://doi.org/10.1145/3169795>.
- [49] **Wei Emma Zhang**, Q. Z. Sheng, Y. Qin, K. Taylor, and L. Yao. “Learning-based SPARQL query performance modeling and prediction”. In: *World Wide Web* 21.4 (2018), pp. 1015–1035. DOI: [10.1007/S11280-017-0498-1](https://doi.org/10.1007/S11280-017-0498-1). URL: <https://doi.org/10.1007/s11280-017-0498-1>.
- [50] A. Shemshadi, Q. Z. Sheng, Y. Qin, A. Sun, **Wei Emma Zhang**, and L. Yao. “Searching for the internet of things: where it is and what it looks like”. In: *Pers. Ubiquitous Comput.* 21.6 (2017), pp. 1097–1112. DOI: [10.1007/S00779-017-1034-0](https://doi.org/10.1007/S00779-017-1034-0). URL: <https://doi.org/10.1007/s00779-017-1034-0>.

## Conference Publications

- [51] C. Zhang, W. Chen, **Wei Emma Zhang**, and M. Xu. “Countering Relearning with Perception Revising Unlearning”. In: *Accepted by the 16th Asian Conference on Machine Learning (ACML 2024)*. 2024.
- [52] H. Zhuang, **Wei Emma Zhang**, J. Yang, W. Chen, and Q. Z. Sheng. “Not All Negatives are Equally Negative: Soft Contrastive Learning for Unsupervised Sentence Representations”. In: *Accepted by the 33rd ACM International Conference on Information and Knowledge Management (CIKM 2024)*. 2024.
- [53] C. G. Dong, Z. Li, L. N. Zheng, W. Chen, and **Wei Emma Zhang**. “Boosting Certificate Robustness for Time Series Classification with Efficient Self-Ensemble”. In: *Accepted by the 33rd ACM International Conference on Information and Knowledge Management (CIKM 2024)*. 2024.



- [54] L. N. Zheng, C. G. Dong, **Wei Emma Zhang**, X. Chen, L. Yue, and W. Chen. “Devil in the Tail: A Multi-Modal Framework for Drug-Drug Interaction Prediction in Long Tail Distinction”. In: *Accepted by the 33rd ACM International Conference on Information and Knowledge Management (CIKM 2024)*. 2024.
- [55] L. N. Zheng, Z. Li, C. G. Dong, **Wei Emma Zhang**, Y. Lin, M. Xu, O. Maennel, and W. Chen. “Irregularity-Informed Time Series Analysis: Adaptive Modeling of Spatial and Temporal Dynamics”. In: *Accepted by the 33rd ACM International Conference on Information and Knowledge Management (CIKM 2024)*. 2024.
- [56] E. Alhazmi, Q. Z. Sheng, **Wei Emma Zhang**, M. Zaib, and A. Alhazmi. “Distractor Generation for Multiple-Choice Questions: A Survey of Methods, Datasets, and Evaluation”. In: *Accepted by 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP 2024)*. 2024.
- [57] H. Zhuang, **Wei Emma Zhang**, L. Xie, W. Chen, J. Yang, and Q. Sheng. “Automatic, Meta and Human Evaluation for Multimodal Summarization with Multimodal Output”. In: *Proceedings of the 2024 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (Volume 1: Long Papers), NAACL 2024, Mexico City, Mexico, June 16-21, 2024*. Ed. by K. Duh, H. Gómez-Adorno, and S. Bethard. Association for Computational Linguistics, 2024, pp. 7768–7790. DOI: [10.18653/v1/2024.naacl-long.430](https://doi.org/10.18653/v1/2024.naacl-long.430). URL: <https://doi.org/10.18653/v1/2024.naacl-long.430>.
- [58] H. Zhuang, **Wei Emma Zhang**, C. Dong, J. Yang, and Q. Sheng. “Trainable Hard Negative Examples in Contrastive Learning for Unsupervised Abstractive Summarization”. In: *Findings of the Association for Computational Linguistics: EACL 2024, St. Julian’s, Malta, March 17-22, 2024*. Ed. by Y. Graham and M. Purver. Association for Computational Linguistics, 2024, pp. 1589–1600. URL: <https://aclanthology.org/2024.findings-eacl.110>.
- [59] T. Cai, S. Yang, J. Li, Q. Z. Sheng, J. Yang, X. Wang, **Wei Emma Zhang**, and L. Gao. “Incremental Graph Computation: Anchored Vertex Tracking in Dynamic Social Networks (Extended Abstract)”. In: *40th IEEE International Conference on Data Engineering, ICDE 2024, Utrecht, The Netherlands, May 13-16, 2024*. IEEE, 2024, pp. 5723–5724. DOI: [10.1109/ICDE60146.2024.00493](https://doi.org/10.1109/ICDE60146.2024.00493). URL: <https://doi.org/10.1109/ICDE60146.2024.00493>.
- [60] L. Guo, **Wei Emma Zhang**, W. Chen, N. Yang, Q. Nguyen, and T. D. Vo. “Oyster Mushroom Growth Stage Identification: An Exploration of Computer Vision Technologies”. In: *AI 2023: Advances in Artificial Intelligence - 36th Australasian Joint Conference on Artificial Intelligence, AI 2023, Brisbane, QLD, Australia, November 28 - December 1, 2023, Proceedings, Part I*. Ed. by T. Liu, G. I. Webb, L. Yue, and D. Wang. Vol. 14471. Lecture Notes in Computer Science. Springer, 2023, pp. 67–78. DOI: [10.1007/978-981-99-8388-9\\_6](https://doi.org/10.1007/978-981-99-8388-9_6). URL: [https://doi.org/10.1007/978-981-99-8388-9\\_6](https://doi.org/10.1007/978-981-99-8388-9_6).
- [61] **Wei Emma Zhang**, P. Chen, J. Yang, Y. Tang, and J. Su. “A Capability Description Language Design for Data Products”. In: *Proceedings of the Second ACM Data Economy Workshop, DEC 2023, Seattle, WA, USA, 18 June 2023*. ACM, 2023, pp. 21–26. DOI: [10.1145/3600046.3600050](https://doi.org/10.1145/3600046.3600050). URL: <https://doi.org/10.1145/3600046.3600050>.
- [62] C. G. Dong, L. N. Zheng, W. Chen, **Wei Emma Zhang**, and L. Yue. “SWAP: Exploiting Second-Ranked Logits for Adversarial Attacks on Time Series”. In: *IEEE International Conference on Knowledge Graph, ICKG 2023, Shanghai, China, December 1-2, 2023*. Ed. by V. S. Sheng, C. Hicks, C. Ling, V. Raghavan, and X. Wu. IEEE, 2023, pp. 117–125. DOI: [10.1109/ICKG59574.2023.00020](https://doi.org/10.1109/ICKG59574.2023.00020). URL: <https://doi.org/10.1109/ICKG59574.2023.00020>.
- [63] **Wei Emma Zhang**, P. Chen, J. Yang, J. Su, and Q. Z. Sheng. “Data Product-Oriented Services for Data Ecosystem”. In: *IEEE International Conference on Web Services, ICWS 2023, Chicago, IL, USA, July 2-8, 2023*. Ed. by C. A. Ardagna, B. Benatallah, H. Bian, C. K. Chang, R. N. Chang, J. Fan, G. C. Fox, Z. Jin, X. Liu, H. Ludwig, M. Sheng, and J. Yang. IEEE, 2023, pp. 755–762. DOI: [10.1109/ICWS60048.2023.00102](https://doi.org/10.1109/ICWS60048.2023.00102). URL: <https://doi.org/10.1109/ICWS60048.2023.00102>.
- [64] C. Chen, **Wei Emma Zhang**, A. S. Shakeri, and M. Fiza. “The Exploration of Knowledge-Preserving Prompts for Document Summarisation”. In: *International Joint Conference on Neural Networks, IJCNN 2023, Gold Coast, Australia, June 18-23, 2023*. IEEE, 2023, pp. 1–8. DOI: [10.1109/IJCNN54540.2023.10191910](https://doi.org/10.1109/IJCNN54540.2023.10191910). URL: <https://doi.org/10.1109/IJCNN54540.2023.10191910>.

- [65] M. Zaib, Q. Z. Sheng, **Wei Emma Zhang**, and A. Mahmood. “Keeping the Questions Conversational: Using Structured Representations to Resolve Dependency in Conversational Question Answering”. In: *International Joint Conference on Neural Networks, IJCNN 2023, Gold Coast, Australia, June 18-23, 2023*. IEEE, 2023, pp. 1–7. DOI: [10.1109/IJCNN54540.2023.10191510](https://doi.org/10.1109/IJCNN54540.2023.10191510). URL: <https://doi.org/10.1109/IJCNN54540.2023.10191510>.
- [66] Y. Zhang, Y. Wang, Q. Z. Sheng, A. Mahmood, **Wei Emma Zhang**, and R. Zhao. “Hybrid Data Augmentation for Citation Function Classification”. In: *International Joint Conference on Neural Networks, IJCNN 2023, Gold Coast, Australia, June 18-23, 2023*. IEEE, 2023, pp. 1–8. DOI: [10.1109/IJCNN54540.2023.10191695](https://doi.org/10.1109/IJCNN54540.2023.10191695). URL: <https://doi.org/10.1109/IJCNN54540.2023.10191695>.
- [67] Z. Wen, **Wei Emma Zhang**, L. Guo, and W. Chen. “Demo Abstract: Navigating Indoors: A Cost-effective Drone-based Solution”. In: *Proceedings of the 21st ACM Conference on Embedded Networked Sensor Systems, SenSys 2023, Istanbul, Turkiye, November 12-17, 2023*. Ed. by M. R. Eskicioglu, P. Huang, and N. Patwari. ACM, 2023, pp. 496–497. DOI: [10.1145/3625687.3628412](https://doi.org/10.1145/3625687.3628412). URL: <https://doi.org/10.1145/3625687.3628412>.
- [68] M. Zaib, **Wei Emma Zhang**, Q. Z. Sheng, S. Sagar, A. Mahmood, and Y. Zhang. “Learning to Select the Relevant History Turns in Conversational Question Answering”. In: *Web Information Systems Engineering - WISE 2023 - 24th International Conference, Melbourne, VIC, Australia, October 25-27, 2023, Proceedings*. Ed. by F. Zhang, H. Wang, M. Barhamgi, L. Chen, and R. Zhou. Vol. 14306. Lecture Notes in Computer Science. Springer, 2023, pp. 334–348. DOI: [10.1007/978-981-99-7254-8\\_26](https://doi.org/10.1007/978-981-99-7254-8_26). URL: [https://doi.org/10.1007/978-981-99-7254-8\\_26](https://doi.org/10.1007/978-981-99-7254-8_26).
- [69] **Wei Emma Zhang**, A. Mahmood, L. Deng, and M. Zhu. “SimSumIoT: A Platform for Simulating the Summarisation from Internet of Things”. In: *Proceedings of the Sixteenth ACM International Conference on Web Search and Data Mining, WSDM 2023, Singapore, 27 February 2023 - 3 March 2023*. Ed. by T. Chua, H. W. Lauw, L. Si, E. Terzi, and P. Tsaparas. ACM, 2023, pp. 1188–1191. DOI: [10.1145/3539597.3573042](https://doi.org/10.1145/3539597.3573042). URL: <https://doi.org/10.1145/3539597.3573042>.
- [70] H. Zhuang, **Wei Emma Zhang**, J. Yang, C. Ma, Y. Qu, and Q. Z. Sheng. “Learning From the Source Document: Unsupervised Abstractive Summarization”. In: *Findings of the Association for Computational Linguistics: EMNLP 2022, Abu Dhabi, United Arab Emirates, December 7-11, 2022*. Ed. by Y. Goldberg, Z. Kozareva, and Y. Zhang. Association for Computational Linguistics, 2022, pp. 4194–4205. DOI: [10.18653/v1/2022.FINDINGS-EMNLP.309](https://doi.org/10.18653/v1/2022.FINDINGS-EMNLP.309). URL: <https://doi.org/10.18653/v1/2022.findings-emnlp.309>.
- [71] M. Y. Sim, **Wei Emma Zhang**, and C. Ma. “An Empirical Study on Topic Preservation in Multi-Document Summarization”. In: *Proceedings of the 2nd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 12th International Joint Conference on Natural Language Processing, AACL/IJCNLP 2022 - Student Research Workshop, Online, November 20, 2022*. Ed. by H. Yan, Z. Yang, S. Ruder, and X. Wan. Association for Computational Linguistics, 2022, pp. 61–67. URL: <https://aclanthology.org/2022.aacl-srw.9>.
- [72] C. Ma, **Wei Emma Zhang**, H. Wang, S. Gupta, and M. Guo. “Incorporating Linguistic Knowledge for Abstractive Multi-document Summarization”. In: *Proceedings of the 36th Pacific Asia Conference on Language, Information and Computation, PACLIC 2022, Manila, Philippines, October 20-22, 2022*. Ed. by S. Dita, A. O. Trillanes, and R. I. Lucas. De La Salle University, 2022, pp. 147–156. URL: <https://aclanthology.org/2022.paclic-1.17>.
- [73] N. Liu, M. Dras, and **Wei Emma Zhang**. “Detecting Textual Adversarial Examples Based on Distributional Characteristics of Data Representations”. In: *Proceedings of the 7th Workshop on Representation Learning for NLP, RepL4NLP@ACL 2022, Dublin, Ireland, May 26, 2022*. Ed. by S. Gella, H. He, B. P. Majumder, B. Can, E. Giunchiglia, S. Cahyawijaya, S. Min, M. Mozes, X. L. Li, I. Augenstein, A. Rogers, K. Cho, E. Grefenstette, L. Rimell, and C. Dyer. Association for Computational Linguistics, 2022, pp. 78–90. DOI: [10.18653/v1/2022.REPL4NLP-1.9](https://doi.org/10.18653/v1/2022.REPL4NLP-1.9). URL: <https://doi.org/10.18653/v1/2022.repl4nlp-1.9>.
- [74] A. Aljubairy, A. Alhazmi, **Wei Emma Zhang**, Q. Z. Sheng, and D. H. Tran. “A Fast and Accurate Approach for Inferencing Social Relationships Among IoT Objects”. In: *Advanced Data Mining and Applications - 17th International Conference, ADMA 2021, Sydney, NSW, Australia, February 2-4, 2022, Proceedings, Part II*. Ed. by B. Li, L. Yue, J. Jiang, W. Chen, X. Li, G. Long, F. Fang, and H. Yu. Vol. 13088. Lecture Notes in Computer Science. Springer, 2021, pp. 83–94.

- [75] A. Mahmood, Q. Z. Sheng, S. A. Siddiqui, S. Sagar, **Wei Emma Zhang**, H. Suzuki, and W. Ni. “When Trust Meets the Internet of Vehicles: Opportunities, Challenges, and Future Prospects”. In: *7th IEEE International Conference on Collaboration and Internet Computing, CIC 2021, Atlanta, GA, USA, December 13-15, 2021*. IEEE, 2021, pp. 60–67. DOI: [10.1109/CIC52973.2021.00018](https://doi.org/10.1109/CIC52973.2021.00018). URL: <https://doi.org/10.1109/CIC52973.2021.00018>.
- [76] **Wei Emma Zhang** and Q. Nguyen. “Constructing COVID-19 Knowledge Graph from A Large Corpus of Scientific Articles”. In: *2021 IEEE International Conference on Big Knowledge, ICBK 2021, Auckland, New Zealand, December 7-8, 2021*. Ed. by L. Chen and B. Fernández-Manjón. IEEE, 2021, pp. 237–244. DOI: [10.1109/ICKG52313.2021.00040](https://doi.org/10.1109/ICKG52313.2021.00040). URL: <https://doi.org/10.1109/ICKG52313.2021.00040>.
- [77] Z. Hussain, D. Waterworth, M. Aldeer, **Wei Emma Zhang**, Q. Z. Sheng, and J. Ortiz. “Do You Brush Your Teeth Properly? An Off-body Sensor-based Approach for Toothbrushing Monitoring”. In: *IEEE International Conference on Digital Health, ICDH 2021, Chicago, IL, USA, September 5-10, 2021*. IEEE, 2021, pp. 59–69. DOI: [10.1109/ICDH52753.2021.00018](https://doi.org/10.1109/ICDH52753.2021.00018). URL: <https://doi.org/10.1109/ICDH52753.2021.00018>.
- [78] A. Alhazmi, A. Aljubairy, **Wei Emma Zhang**, Q. Z. Sheng, and E. Alhazmi. “A Unified Framework for Improving Misclassifications in Modern Deep Neural Networks for Sentiment Analysis”. In: *International Joint Conference on Neural Networks, IJCNN 2021, Shenzhen, China, July 18-22, 2021*. IEEE, 2021, pp. 1–7. DOI: [10.1109/IJCNN52387.2021.9534168](https://doi.org/10.1109/IJCNN52387.2021.9534168). URL: <https://doi.org/10.1109/IJCNN52387.2021.9534168>.
- [79] **Wei Emma Zhang**, M. Liu, A. Pallath, and G. Tamilventhan. “A Web-based Knowledge Hub for Exploration of Multiple Research Article Collections”. In: *SIGIR '21: The 44th International ACM SIGIR Conference on Research and Development in Information Retrieval, Virtual Event, Canada, July 11-15, 2021*. Ed. by F. Diaz, C. Shah, T. Suel, P. Castells, R. Jones, and T. Sakai. ACM, 2021, pp. 2556–2559. DOI: [10.1145/3404835.3462780](https://doi.org/10.1145/3404835.3462780). URL: <https://doi.org/10.1145/3404835.3462780>.
- [80] S. A. Hamad, D. H. Tran, Q. Z. Sheng, and **Wei Emma Zhang**. “BERTDeep-Ware: A Cross-architecture Malware Detection Solution for IoT Systems”. In: *20th IEEE International Conference on Trust, Security and Privacy in Computing and Communications, TrustCom 2021, Shenyang, China, October 20-22, 2021*. IEEE, 2021, pp. 927–934. DOI: [10.1109/TrustCom53373.2021.00130](https://doi.org/10.1109/TrustCom53373.2021.00130). URL: <https://doi.org/10.1109/TrustCom53373.2021.00130>.
- [81] D. H. Tran, S. A. Hamad, M. Zaib, A. Aljubairy, Q. Z. Sheng, **Wei Emma Zhang**, N. H. Tran, and N. L. D. Khoa. “Deep News Recommendation with Contextual User Profiling and Multifaceted Article Representation”. In: *Web Information Systems Engineering - WISE 2021 - 22nd International Conference on Web Information Systems Engineering, WISE 2021, Melbourne, VIC, Australia, October 26-29, 2021, Proceedings, Part II*. Ed. by W. Zhang, L. Zou, Z. Maamar, and L. Chen. Vol. 13081. Lecture Notes in Computer Science. Springer, 2021, pp. 237–251. DOI: [10.1007/978-3-030-91560-5\\_17](https://doi.org/10.1007/978-3-030-91560-5_17). URL: [https://doi.org/10.1007/978-3-030-91560-5\\_17](https://doi.org/10.1007/978-3-030-91560-5_17).
- [82] Y. Zhang, Y. Wang, Q. Z. Sheng, A. Mahmood, **Wei Emma Zhang**, and R. Zhao. “TDM-CFC: Towards Document-Level Multi-label Citation Function Classification”. In: *Web Information Systems Engineering - WISE 2021 - 22nd International Conference on Web Information Systems Engineering, WISE 2021, Melbourne, VIC, Australia, October 26-29, 2021, Proceedings, Part II*. Ed. by W. Zhang, L. Zou, Z. Maamar, and L. Chen. Vol. 13081. Lecture Notes in Computer Science. Springer, 2021, pp. 363–376. DOI: [10.1007/978-3-030-91560-5\\_26](https://doi.org/10.1007/978-3-030-91560-5_26). URL: [https://doi.org/10.1007/978-3-030-91560-5\\_26](https://doi.org/10.1007/978-3-030-91560-5_26).
- [83] A. Aljubairy, A. Alhazmi, **Wei Emma Zhang**, Q. Z. Sheng, and D. H. Tran. “Towards a Deep Learning-Driven Service Discovery Framework for the Social Internet of Things: A Context-Aware Approach”. In: *Web Information Systems Engineering - WISE 2021 - 22nd International Conference on Web Information Systems Engineering, WISE 2021, Melbourne, VIC, Australia, October 26-29, 2021, Proceedings, Part II*. Ed. by W. Zhang, L. Zou, Z. Maamar, and L. Chen. Vol. 13081. Lecture Notes in Computer Science. Springer, 2021, pp. 480–488. DOI: [10.1007/978-3-030-91560-5\\_35](https://doi.org/10.1007/978-3-030-91560-5_35). URL: [https://doi.org/10.1007/978-3-030-91560-5\\_35](https://doi.org/10.1007/978-3-030-91560-5_35).

- [84] M. Zaib, Q. Z. Sheng, and **Wei Emma Zhang**. “A Short Survey of Pre-trained Language Models for Conversational AI-A New Age in NLP”. In: *Proceedings of the Australasian Computer Science Week, ACSW 2020, Melbourne, VIC, Australia, February 3-7, 2020*. Ed. by P. P. Jayaraman, D. Georgakopoulos, T. K. Sellis, and A. Forkan. ACM, 2020, 11:1–11:4. DOI: [10.1145/3373017.3373028](https://doi.org/10.1145/3373017.3373028). URL: <https://doi.org/10.1145/3373017.3373028>.
- [85] A. Aljubairy, **Wei Emma Zhang**, Q. Z. Sheng, and A. Alhazmi. “SIoTpredict: A Framework for Predicting Relationships in the Social Internet of Things”. In: *Advanced Information Systems Engineering - 32nd International Conference, CAiSE 2020, Grenoble, France, June 8-12, 2020, Proceedings*. Ed. by S. Dustdar, E. Yu, C. Salinesi, D. Rieu, and V. Pant. Vol. 12127. Lecture Notes in Computer Science. Springer, 2020, pp. 101–116. DOI: [10.1007/978-3-030-49435-3\\_7](https://doi.org/10.1007/978-3-030-49435-3_7). URL: [https://doi.org/10.1007/978-3-030-49435-3\\_7](https://doi.org/10.1007/978-3-030-49435-3_7).
- [86] V. K. Nguyen, Q. Z. Sheng, A. Mahmood, **Wei Emma Zhang**, and T. D. Vo. “Helibot - A Smart Distributed Energy Resources Platform for Futuristic Smart Grids”. In: *20th IEEE/ACM International Symposium on Cluster, Cloud and Internet Computing, CCGRID 2020, Melbourne, Australia, May 11-14, 2020*. IEEE, 2020, pp. 898–901. DOI: [10.1109/CCGRID49817.2020.00017](https://doi.org/10.1109/CCGRID49817.2020.00017). URL: <https://doi.org/10.1109/CCGRID49817.2020.00017>.
- [87] **Wei Emma Zhang**, Q. Z. Sheng, A. Mahmood, D. H. Tran, M. Zaib, S. A. Hamad, A. Aljubairy, A. A. F. Alhazmi, S. Sagar, and C. Ma. “The 10 Research Topics in the Internet of Things”. In: *6th IEEE International Conference on Collaboration and Internet Computing, CIC 2020, Atlanta, GA, USA, December 1-3, 2020*. IEEE, 2020, pp. 34–43. DOI: [10.1109/CIC50333.2020.00015](https://doi.org/10.1109/CIC50333.2020.00015). URL: <https://doi.org/10.1109/CIC50333.2020.00015>.
- [88] R. Tang, C. Ma, **Wei Emma Zhang**, Q. Wu, and X. Yang. “Semantic Equivalent Adversarial Data Augmentation for Visual Question Answering”. In: *Computer Vision - ECCV 2020 - 16th European Conference, Glasgow, UK, August 23-28, 2020, Proceedings, Part XIX*. Ed. by A. Vedaldi, H. Bischof, T. Brox, and J. Frahm. Vol. 12364. Lecture Notes in Computer Science. Springer, 2020, pp. 437–453. DOI: [10.1007/978-3-030-58529-7\\_26](https://doi.org/10.1007/978-3-030-58529-7_26). URL: [https://doi.org/10.1007/978-3-030-58529-7\\_26](https://doi.org/10.1007/978-3-030-58529-7_26).
- [89] S. Sagar, A. Mahmood, Q. Z. Sheng, and **Wei Emma Zhang**. “Trust Computational Heuristic for Social Internet of Things: A Machine Learning-based Approach”. In: *2020 IEEE International Conference on Communications, ICC 2020, Dublin, Ireland, June 7-11, 2020*. IEEE, 2020, pp. 1–6. DOI: [10.1109/ICC40277.2020.9148767](https://doi.org/10.1109/ICC40277.2020.9148767). URL: <https://doi.org/10.1109/ICC40277.2020.9148767>.
- [90] D. Mai and **Wei Emma Zhang**. “Aspect Extraction Using Coreference Resolution and Unsupervised Filtering”. In: *Proceedings of the 1st Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 10th International Joint Conference on Natural Language Processing: Student Research Workshop, ACL/IJCNLP 2021, Suzhou, China, December 4-7, 2020*. Ed. by B. Shmueli and Y. J. Huang. Association for Computational Linguistics, 2020, pp. 124–129. URL: <https://aclanthology.org/2020.acl-srw.18/>.
- [91] A. Alhazmi, **Wei Emma Zhang**, Q. Z. Sheng, and A. Aljubairy. “Analyzing the Sensitivity of Deep Neural Networks for Sentiment Analysis: A Scoring Approach”. In: *2020 International Joint Conference on Neural Networks, IJCNN 2020, Glasgow, United Kingdom, July 19-24, 2020*. IEEE, 2020, pp. 1–7. DOI: [10.1109/IJCNN48605.2020.9207000](https://doi.org/10.1109/IJCNN48605.2020.9207000). URL: <https://doi.org/10.1109/IJCNN48605.2020.9207000>.
- [92] A. Alhazmi, **Wei Emma Zhang**, Q. Z. Sheng, and A. Aljubairy. “Are Modern Deep Learning Models for Sentiment Analysis Brittle? An Examination on Part-of-Speech”. In: *2020 International Joint Conference on Neural Networks, IJCNN 2020, Glasgow, United Kingdom, July 19-24, 2020*. IEEE, 2020, pp. 1–7. DOI: [10.1109/IJCNN48605.2020.9207665](https://doi.org/10.1109/IJCNN48605.2020.9207665). URL: <https://doi.org/10.1109/IJCNN48605.2020.9207665>.
- [93] D. H. Tran, A. Aljubairy, M. Zaib, Q. Z. Sheng, **Wei Emma Zhang**, N. H. Tran, and K. L. D. Nguyen. “HeteGraph: A Convolutional Framework for Graph Learning in Recommender Systems”. In: *2020 International Joint Conference on Neural Networks, IJCNN 2020, Glasgow, United Kingdom, July 19-24, 2020*. IEEE, 2020, pp. 1–8. DOI: [10.1109/IJCNN48605.2020.9207078](https://doi.org/10.1109/IJCNN48605.2020.9207078). URL: <https://doi.org/10.1109/IJCNN48605.2020.9207078>.



- [94] V. K. Nguyen, Q. Z. Sheng, A. Mahmood, **Wei Emma Zhang**, M. Phan, and T. D. Vo. “Demo Abstract: An Internet of Plants System for Micro Gardens”. In: *19th ACM/IEEE International Conference on Information Processing in Sensor Networks, IPSN 2020, Sydney, Australia, April 21-24, 2020*. IEEE, 2020, pp. 355–356. DOI: [10.1109/IPSNA48710.2020.000-9](https://doi.org/10.1109/IPSNA48710.2020.000-9). URL: <https://doi.org/10.1109/IPSNA48710.2020.000-9>.
- [95] S. Sagar, A. Mahmood, M. Sheng, M. Zaib, and **Wei Emma Zhang**. “Towards a Machine Learning-driven Trust Evaluation Model for Social Internet of Things: A Time-aware Approach”. In: *MobiQuitous ’20: Computing, Networking and Services, Virtual Event / Darmstadt, Germany, December 7-9, 2020*. Ed. by M. Mühlhäuser, G. C. Polyzos, F. Michahelles, A. S. Guinea, and L. Wang. ACM, 2020, pp. 283–290. DOI: [10.1145/3448891.3448927](https://doi.org/10.1145/3448891.3448927). URL: <https://doi.org/10.1145/3448891.3448927>.
- [96] M. Zaib, D. H. Tran, S. Sagar, A. Mahmood, **Wei Emma Zhang**, and Q. Z. Sheng. “BERT-CoQAC: BERT-Based Conversational Question Answering in Context”. In: *Parallel Architectures, Algorithms and Programming - 11th International Symposium, PAAP 2020, Shenzhen, China, December 28-30, 2020, Proceedings*. Ed. by L. Ning, V. Chau, and F. C. M. Lau. Vol. 1362. Communications in Computer and Information Science. Springer, 2020, pp. 47–57. DOI: [10.1007/978-981-16-0010-4\\_5](https://doi.org/10.1007/978-981-16-0010-4_5). URL: [https://doi.org/10.1007/978-981-16-0010-4\\_5](https://doi.org/10.1007/978-981-16-0010-4_5).
- [97] S. A. Hamad, Q. Z. Sheng, D. H. Tran, **Wei Emma Zhang**, and S. Nepal. “A Behavioural Network Traffic Novelty Detection for the Internet of Things Infrastructures”. In: *Parallel Architectures, Algorithms and Programming - 11th International Symposium, PAAP 2020, Shenzhen, China, December 28-30, 2020, Proceedings*. Ed. by L. Ning, V. Chau, and F. C. M. Lau. Vol. 1362. Communications in Computer and Information Science. Springer, 2020, pp. 174–186. DOI: [10.1007/978-981-16-0010-4\\_16](https://doi.org/10.1007/978-981-16-0010-4_16). URL: [https://doi.org/10.1007/978-981-16-0010-4\\_16](https://doi.org/10.1007/978-981-16-0010-4_16).
- [98] Z. Hussain, D. Waterworth, M. Aldeer, **Wei Emma Zhang**, and Q. Z. Sheng. “Toothbrushing data and analysis of its potential use in human activity recognition applications: dataset”. In: *DATA@SenSys 2020: Proceedings of the Third Workshop on Data: Acquisition To Analysis, Virtual Event, Japan, November 16-19, 2020*. ACM, 2020, pp. 31–34. DOI: [10.1145/3419016.3431489](https://doi.org/10.1145/3419016.3431489). URL: <https://doi.org/10.1145/3419016.3431489>.
- [99] Y. Cao, X. Chen, L. Yao, X. Wang, and **Wei Emma Zhang**. “Adversarial Attacks and Detection on Reinforcement Learning-Based Interactive Recommender Systems”. In: *Proceedings of the 43rd International ACM SIGIR conference on research and development in Information Retrieval, SIGIR 2020, Virtual Event, China, July 25-30, 2020*. Ed. by J. X. Huang, Y. Chang, X. Cheng, J. Kamps, V. Murdock, J. Wen, and Y. Liu. ACM, 2020, pp. 1669–1672. DOI: [10.1145/3397271.3401196](https://doi.org/10.1145/3397271.3401196). URL: <https://doi.org/10.1145/3397271.3401196>.
- [100] V. K. Nguyen, M. Phan, **Wei Emma Zhang**, Q. Z. Sheng, and T. D. Vo. “A Hybrid Approach for Intrusive Appliance Load Monitoring in Smart Home”. In: *2020 IEEE International Conference on Smart Internet of Things, SmartIoT 2020, Beijing, China, August 14-16, 2020*. IEEE, 2020, pp. 154–160. DOI: [10.1109/SmartIoT49966.2020.00031](https://doi.org/10.1109/SmartIoT49966.2020.00031). URL: <https://doi.org/10.1109/SmartIoT49966.2020.00031>.
- [101] Z. Liu, Q. Z. Sheng, **Wei Emma Zhang**, D. Chu, and X. Xu. “Context-Aware Multi-QoS Prediction for Services in Mobile Edge Computing”. In: *2019 IEEE International Conference on Services Computing, SCC 2019, Milan, Italy, July 8-13, 2019*. Ed. by E. Bertino, C. K. Chang, P. Chen, E. Damiani, M. Goul, and K. Oyama. IEEE, 2019, pp. 72–79. DOI: [10.1109/SCC.2019.00024](https://doi.org/10.1109/SCC.2019.00024). URL: <https://doi.org/10.1109/SCC.2019.00024>.
- [102] A. Mahmood, **Wei Emma Zhang**, and Q. Z. Sheng. “Overcoming the Bottlenecks in Next-Generation Heterogeneous Vehicular Networks: Is SDN the Optimal Solution?” In: *Proceedings of the Australasian Computer Science Week Multiconference, ACSW 2019, Sydney, NSW, Australia, January 29-31, 2019*. ACM, 2019, 6:1–6:4. DOI: [10.1145/3290688.3290701](https://doi.org/10.1145/3290688.3290701). URL: <https://doi.org/10.1145/3290688.3290701>.
- [103] S. A. Siddiqui, A. Mahmood, **Wei Emma Zhang**, and Q. Z. Sheng. “Machine Learning Based Trust Model for Misbehaviour Detection in Internet-of-Vehicles”. In: *Neural Information Processing - 26th International Conference, ICONIP 2019, Sydney, NSW, Australia, December 12-15, 2019, Proceedings, Part IV*. Ed. by T. Gedeon, K. W. Wong, and M. Lee. Vol. 1142. Communications in Computer and Information Science. Springer, 2019, pp. 512–520. DOI: [10.1007/978-3-030-36808-1\\_56](https://doi.org/10.1007/978-3-030-36808-1_56). URL: [https://doi.org/10.1007/978-3-030-36808-1\\_56](https://doi.org/10.1007/978-3-030-36808-1_56).

- [104] Y. Shu, **Wei Emma Zhang**, Y. Liu, C. Wang, J. Dong, Z. Zhang, D. Wen, and D. Zuo. “Bottom-Up Teaching Reformation for the Undergraduate Course of Computer Organization and Architecture”. In: *Data Science - 5th International Conference of Pioneering Computer Scientists, Engineers and Educators, ICPCSEE 2019, Guilin, China, September 20-23, 2019, Proceedings, Part II*. Ed. by R. Mao, H. Wang, X. Xie, and Z. Lu. Vol. 1059. Communications in Computer and Information Science. Springer, 2019, pp. 303–312. DOI: [10.1007/978-981-15-0121-0\\_23](https://doi.org/10.1007/978-981-15-0121-0_23). URL: [https://doi.org/10.1007/978-981-15-0121-0\\_23](https://doi.org/10.1007/978-981-15-0121-0_23).
- [105] V. K. Nguyen, **Wei Emma Zhang**, K. Le, A. Mahmood, and Q. Z. Sheng. “Demo Abstract: An End-to-End Real-Time Efficient System for Smart Energy Monitoring”. In: *IEEE INFOCOM 2019 - IEEE Conference on Computer Communications Workshops, INFOCOM Workshops 2019, Paris, France, April 29 - May 2, 2019*. IEEE, 2019, pp. 957–958. DOI: [10.1109/INFCOMW.2019.8845260](https://doi.org/10.1109/INFCOMW.2019.8845260). URL: <https://doi.org/10.1109/INFCOMW.2019.8845260>.
- [106] S. A. Siddiqui, A. Mahmood, **Wei Emma Zhang**, and Q. Z. Sheng. “Poster: A Machine Learning based Hybrid Trust Management Heuristic for Vehicular Ad hoc Networks”. In: *The 25th Annual International Conference on Mobile Computing and Networking, MobiCom 2019, Los Cabos, Mexico, October 21-25, 2019*. Ed. by S. A. Brewster, G. Fitzpatrick, A. L. Cox, and V. Kostakos. ACM, 2019, 95:1–95:3. DOI: [10.1145/3300061.3343404](https://doi.org/10.1145/3300061.3343404). URL: <https://doi.org/10.1145/3300061.3343404>.
- [107] Z. Hussain, S. Sagar, **Wei Emma Zhang**, and Q. Z. Sheng. “A cost-effective and non-invasive system for sleep and vital signs monitoring using passive RFID tags”. In: *MobiQuitous 2019, Proceedings of the 16th EAI International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services, Houston, Texas, USA, November 12-14, 2019*. Ed. by H. V. Poor, Z. Han, D. Pompili, Z. Sun, and M. Pan. ACM, 2019, pp. 153–161. DOI: [10.1145/3360774.3360797](https://doi.org/10.1145/3360774.3360797). URL: <https://doi.org/10.1145/3360774.3360797>.
- [108] A. Mahmood, S. A. Siddiqui, **Wei Emma Zhang**, and Q. Z. Sheng. “A Hybrid Trust Management Model for Secure and Resource Efficient Vehicular Ad hoc Networks”. In: *20th International Conference on Parallel and Distributed Computing, Applications and Technologies, PDCAT 2019, Gold Coast, Australia, December 5-7, 2019*. IEEE, 2019, pp. 154–159. DOI: [10.1109/PDCAT46702.2019.00038](https://doi.org/10.1109/PDCAT46702.2019.00038). URL: <https://doi.org/10.1109/PDCAT46702.2019.00038>.
- [109] A. Mahmood, B. Butler, **Wei Emma Zhang**, Q. Z. Sheng, and S. A. Siddiqui. “A Hybrid Trust Management Heuristic for VANETs”. In: *IEEE International Conference on Pervasive Computing and Communications Workshops, PerCom Workshops 2019, Kyoto, Japan, March 11-15, 2019*. IEEE, 2019, pp. 748–752. DOI: [10.1109/PERCOMW.2019.8730675](https://doi.org/10.1109/PERCOMW.2019.8730675). URL: <https://doi.org/10.1109/PERCOMW.2019.8730675>.
- [110] S. A. Hamad, **Wei Emma Zhang**, Q. Z. Sheng, and S. Nepal. “IoT Device Identification via Network-Flow Based Fingerprinting and Learning”. In: *18th IEEE International Conference On Trust, Security And Privacy In Computing And Communications / 13th IEEE International Conference On Big Data Science And Engineering, TrustCom/BigDataSE 2019, Rotorua, New Zealand, August 5-8, 2019*. IEEE, 2019, pp. 103–111. DOI: [10.1109/TRUSTCOM/BIGDATASE.2019.00023](https://doi.org/10.1109/TRUSTCOM/BIGDATASE.2019.00023). URL: <https://doi.org/10.1109/TrustCom/BigDataSE.2019.00023>.
- [111] D. H. Tran, Z. Hussain, **Wei Emma Zhang**, K. L. D. Nguyen, N. H. Tran, and Q. Z. Sheng. “Deep Autoencoder for Recommender Systems: Parameter Influence Analysis”. In: *Australasian Conference on Information Systems, ACIS 2018, Sydney, NSW, Australia, December 3-5, 2018*. 2018, p. 66. URL: <https://aisel.aisnet.org/acis2018/66>.
- [112] **Wei Emma Zhang**, Q. Z. Sheng, Z. Tang, and W. Ruan. “Related or Duplicate: Distinguishing Similar CQA Questions via Convolutional Neural Networks”. In: *The 41st International ACM SIGIR Conference on Research & Development in Information Retrieval, SIGIR 2018, Ann Arbor, MI, USA, July 08-12, 2018*. Ed. by K. Collins-Thompson, Q. Mei, B. D. Davison, Y. Liu, and E. Yilmaz. ACM, 2018, pp. 1153–1156. DOI: [10.1145/3209978.3210110](https://doi.org/10.1145/3209978.3210110). URL: <https://doi.org/10.1145/3209978.3210110>.
- [113] V. K. Nguyen, **Wei Emma Zhang**, and Q. Z. Sheng. “Identifying Price Index Classes for Electricity Consumers via Dynamic Gradient Boosting”. In: *Web Information Systems Engineering - WISE 2018 - 19th International Conference, Dubai, United Arab Emirates, November 12-15, 2018, Proceedings, Part II*. Ed. by H. Hacid, W. Cellary, H. Wang, H. Paik, and R. Zhou. Vol. 11234. Lecture Notes in Computer Science. Springer, 2018, pp. 472–486. DOI: [10.1007/978-3-030-02925-8\\_33](https://doi.org/10.1007/978-3-030-02925-8_33). URL: [https://doi.org/10.1007/978-3-030-02925-8\\_33](https://doi.org/10.1007/978-3-030-02925-8_33).

- [114] **Wei Emma Zhang**, Q. Z. Sheng, Y. Shu, and V. K. Nguyen. “Feature Analysis for Duplicate Detection in Programming QA Communities”. In: *Advanced Data Mining and Applications - 13th International Conference, ADMA 2017, Singapore, November 5-6, 2017, Proceedings*. Ed. by G. Cong, W. Peng, **Wei Emma Zhang**, C. Li, and A. Sun. Vol. 10604. Lecture Notes in Computer Science. Springer, 2017, pp. 623–638. DOI: [10.1007/978-3-319-69179-4\\_44](https://doi.org/10.1007/978-3-319-69179-4_44). URL: [https://doi.org/10.1007/978-3-319-69179-4\\_44](https://doi.org/10.1007/978-3-319-69179-4_44).
- [115] V. K. Nguyen, **Wei Emma Zhang**, Q. Z. Sheng, and J. Merefield. “Mining Load Profile Patterns for Australian Electricity Consumers”. In: *Advanced Data Mining and Applications - 13th International Conference, ADMA 2017, Singapore, November 5-6, 2017, Proceedings*. Ed. by G. Cong, W. Peng, **Wei Emma Zhang**, C. Li, and A. Sun. Vol. 10604. Lecture Notes in Computer Science. Springer, 2017, pp. 781–793. DOI: [10.1007/978-3-319-69179-4\\_55](https://doi.org/10.1007/978-3-319-69179-4_55). URL: [https://doi.org/10.1007/978-3-319-69179-4\\_55](https://doi.org/10.1007/978-3-319-69179-4_55).
- [116] Y. Zhang, C. Szabo, Q. Z. Sheng, **Wei Emma Zhang**, and Y. Qin. “Identifying Domains and Concepts in Short Texts via Partial Taxonomy and Unlabeled Data”. In: *Advanced Information Systems Engineering - 29th International Conference, CAiSE 2017, Essen, Germany, June 12-16, 2017, Proceedings*. Ed. by E. Dubois and K. Pohl. Vol. 10253. Lecture Notes in Computer Science. Springer, 2017, pp. 127–143. DOI: [10.1007/978-3-319-59536-8\\_9](https://doi.org/10.1007/978-3-319-59536-8_9). URL: [https://doi.org/10.1007/978-3-319-59536-8\\_9](https://doi.org/10.1007/978-3-319-59536-8_9).
- [117] W. Ruan, P. Xu, Q. Z. Sheng, N. J. G. Falkner, X. Li, and **Wei Emma Zhang**. “Recovering Missing Values from Corrupted Spatio-Temporal Sensory Data via Robust Low-Rank Tensor Completion”. In: *Database Systems for Advanced Applications - 22nd International Conference, DASFAA 2017, Suzhou, China, March 27-30, 2017, Proceedings, Part I*. Ed. by K. S. Candan, L. Chen, T. B. Pedersen, L. Chang, and W. Hua. Vol. 10177. Lecture Notes in Computer Science. Springer, 2017, pp. 607–622. DOI: [10.1007/978-3-319-55753-3\\_38](https://doi.org/10.1007/978-3-319-55753-3_38). URL: [https://doi.org/10.1007/978-3-319-55753-3\\_38](https://doi.org/10.1007/978-3-319-55753-3_38).
- [118] Y. Shu, D. Zuo, H. Liu, Q. Z. Sheng, **Wei Emma Zhang**, and J. Yang. “A Tree-Based Reliability Analysis for Fault-Tolerant Web Services Composition”. In: *Service-Oriented Computing - 15th International Conference, ICSOC 2017, Malaga, Spain, November 13-16, 2017, Proceedings*. Ed. by E. M. Maximilien, A. Vallecillo, J. Wang, and M. Oriol. Vol. 10601. Lecture Notes in Computer Science. Springer, 2017, pp. 481–489. DOI: [10.1007/978-3-319-69035-3\\_35](https://doi.org/10.1007/978-3-319-69035-3_35). URL: [https://doi.org/10.1007/978-3-319-69035-3\\_35](https://doi.org/10.1007/978-3-319-69035-3_35).
- [119] **Wei Emma Zhang**, Q. Z. Sheng, J. H. Lau, and E. Abebe. “Detecting Duplicate Posts in Programming QA Communities via Latent Semantics and Association Rules”. In: *Proceedings of the 26th International Conference on World Wide Web, WWW 2017, Perth, Australia, April 3-7, 2017*. Ed. by R. Barrett, R. Cummings, E. Agichtein, and E. Gabrilovich. ACM, 2017, pp. 1221–1229. DOI: [10.1145/3038912.3052701](https://doi.org/10.1145/3038912.3052701). URL: <https://doi.org/10.1145/3038912.3052701>.
- [120] G. Cong, W. Peng, **Wei Emma Zhang**, C. Li, and A. Sun, eds. *Advanced Data Mining and Applications - 13th International Conference, ADMA 2017, Singapore, November 5-6, 2017, Proceedings*. Vol. 10604. Lecture Notes in Computer Science. Springer, 2017. ISBN: 978-3-319-69178-7. DOI: [10.1007/978-3-319-69179-4](https://doi.org/10.1007/978-3-319-69179-4). URL: <https://doi.org/10.1007/978-3-319-69179-4>.
- [121] **Wei Emma Zhang**, Q. Z. Sheng, E. Abebe, M. A. Babar, and A. Zhou. “Mining Source Code Topics Through Topic Model and Words Embedding”. In: *Advanced Data Mining and Applications - 12th International Conference, ADMA 2016, Gold Coast, QLD, Australia, December 12-15, 2016, Proceedings*. Ed. by J. Li, X. Li, S. Wang, J. Li, and Q. Z. Sheng. Vol. 10086. Lecture Notes in Computer Science. 2016, pp. 664–676. DOI: [10.1007/978-3-319-49586-6\\_47](https://doi.org/10.1007/978-3-319-49586-6_47). URL: [https://doi.org/10.1007/978-3-319-49586-6\\_47](https://doi.org/10.1007/978-3-319-49586-6_47).
- [122] A. Alfazi, Q. Z. Sheng, **Wei Emma Zhang**, L. Yao, and T. H. Noor. “Identification as a Service: Large-Scale Cloud Service Discovery over the World Wide Web”. In: *2016 IEEE International Congress on Big Data, San Francisco, CA, USA, June 27 - July 2, 2016*. Ed. by C. Pu, G. C. Fox, and E. Damiani. IEEE Computer Society, 2016, pp. 485–492. DOI: [10.1109/BIGDATACONGRESS.2016.74](https://doi.org/10.1109/BIGDATACONGRESS.2016.74). URL: <https://doi.org/10.1109/BIGDATACONGRESS.2016.74>.

- [123] **Wei Emma Zhang**, M. Tan, Q. Z. Sheng, L. Yao, and Q. Shi. “Efficient Orthogonal Non-negative Matrix Factorization over Stiefel Manifold”. In: *Proceedings of the 25th ACM International Conference on Information and Knowledge Management, CIKM 2016, Indianapolis, IN, USA, October 24-28, 2016*. Ed. by S. Mukhopadhyay, C. Zhai, E. Bertino, F. Crestani, J. Mostafa, J. Tang, L. Si, X. Zhou, Y. Chang, Y. Li, and P. Sondhi. ACM, 2016, pp. 1743–1752. DOI: [10.1145/2983323.2983761](https://doi.org/10.1145/2983323.2983761). URL: <https://doi.org/10.1145/2983323.2983761>.
- [124] W. Ruan, Q. Z. Sheng, P. Xu, N. K. Tran, N. J. G. Falkner, X. Li, and **Wei Emma Zhang**. “Forecasting Seasonal Time Series Using Weighted Gradient RBF Network based Autoregressive Model”. In: *Proceedings of the 25th ACM International Conference on Information and Knowledge Management, CIKM 2016, Indianapolis, IN, USA, October 24-28, 2016*. Ed. by S. Mukhopadhyay, C. Zhai, E. Bertino, F. Crestani, J. Mostafa, J. Tang, L. Si, X. Zhou, Y. Chang, Y. Li, and P. Sondhi. ACM, 2016, pp. 2021–2024. DOI: [10.1145/2983323.2983899](https://doi.org/10.1145/2983323.2983899). URL: <https://doi.org/10.1145/2983323.2983899>.
- [125] W. Ruan, P. Xu, Q. Z. Sheng, N. K. Tran, N. J. G. Falkner, X. Li, and **Wei Emma Zhang**. “When Sensor Meets Tensor: Filling Missing Sensor Values Through a Tensor Approach”. In: *Proceedings of the 25th ACM International Conference on Information and Knowledge Management, CIKM 2016, Indianapolis, IN, USA, October 24-28, 2016*. Ed. by S. Mukhopadhyay, C. Zhai, E. Bertino, F. Crestani, J. Mostafa, J. Tang, L. Si, X. Zhou, Y. Chang, Y. Li, and P. Sondhi. ACM, 2016, pp. 2025–2028. DOI: [10.1145/2983323.2983900](https://doi.org/10.1145/2983323.2983900). URL: <https://doi.org/10.1145/2983323.2983900>.
- [126] **Wei Emma Zhang**, Q. Z. Sheng, Y. Qin, L. Yao, A. Shemshadi, and K. L. Taylor. “SECF: improving SPARQL querying performance with proactive fetching and caching”. In: *Proceedings of the 31st Annual ACM Symposium on Applied Computing, Pisa, Italy, April 4-8, 2016*. Ed. by S. Ossowski. ACM, 2016, pp. 362–367. DOI: [10.1145/2851613.2851846](https://doi.org/10.1145/2851613.2851846). URL: <https://doi.org/10.1145/2851613.2851846>.
- [127] **Wei Emma Zhang**, E. Abebe, Q. Z. Sheng, and K. L. Taylor. “Towards Building Open Knowledge Base From Programming Question-Answering Communities”. In: *Proceedings of the ISWC 2016 Posters & Demonstrations Track co-located with 15th International Semantic Web Conference (ISWC 2016), Kobe, Japan, October 19, 2016*. Ed. by T. Kawamura and H. Paulheim. Vol. 1690. CEUR Workshop Proceedings. CEUR-WS.org, 2016. URL: <https://ceur-ws.org/Vol-1690/paper36.pdf>.
- [128] **Wei Emma Zhang**, Q. Z. Sheng, K. L. Taylor, Y. Qin, and L. Yao. “Learning-Based SPARQL Query Performance Prediction”. In: *Web Information Systems Engineering - WISE 2016 - 17th International Conference, Shanghai, China, November 8-10, 2016, Proceedings, Part I*. Ed. by W. Cellary, M. F. Mokbel, J. Wang, H. Wang, R. Zhou, and Y. Zhang. Vol. 10041. Lecture Notes in Computer Science. 2016, pp. 313–327. DOI: [10.1007/978-3-319-48740-3\\_23](https://doi.org/10.1007/978-3-319-48740-3_23). URL: [https://doi.org/10.1007/978-3-319-48740-3\\_23](https://doi.org/10.1007/978-3-319-48740-3_23).
- [129] **Wei Emma Zhang**, Q. Z. Sheng, K. Taylor, and Y. Qin. “Identifying and Caching Hot Triples for Efficient RDF Query Processing”. In: *Database Systems for Advanced Applications - 20th International Conference, DASFAA 2015, Hanoi, Vietnam, April 20-23, 2015, Proceedings, Part II*. Ed. by M. Renz, C. Shahabi, X. Zhou, and M. A. Cheema. Vol. 9050. Lecture Notes in Computer Science. Springer, 2015, pp. 259–274. DOI: [10.1007/978-3-319-18123-3\\_16](https://doi.org/10.1007/978-3-319-18123-3_16). URL: [https://doi.org/10.1007/978-3-319-18123-3\\_16](https://doi.org/10.1007/978-3-319-18123-3_16).
- [130] Y. Qin, Q. Z. Sheng, and **Wei Emma Zhang**. “SIEF: Efficiently Answering Distance Queries for Failure Prone Graphs”. In: *Proceedings of the 18th International Conference on Extending Database Technology, EDBT 2015, Brussels, Belgium, March 23-27, 2015*. Ed. by G. Alonso, F. Geerts, L. Popa, P. Barceló, J. Teubner, M. Ugarte, J. V. den Bussche, and J. Paredaens. OpenProceedings.org, 2015, pp. 145–156. DOI: [10.5441/002/EDBT.2015.14](https://doi.org/10.5441/002/EDBT.2015.14). URL: <https://doi.org/10.5441/002/edbt.2015.14>.
- [131] Y. Qin, H. Wang, J. Zhang, X. Tao, **Wei Emma Zhang**, K. L. Taylor, and Q. Z. Sheng. “Efficient Algorithms for Scheduling XML Data in a Mobile Wireless Broadcast Environment”. In: *21st IEEE International Conference on Parallel and Distributed Systems, ICPADS 2015, Melbourne, Australia, December 14-17, 2015*. IEEE Computer Society, 2015, pp. 725–732. DOI: [10.1109/ICPADS.2015.96](https://doi.org/10.1109/ICPADS.2015.96). URL: <https://doi.org/10.1109/ICPADS.2015.96>.



- [132] L. Yao, X. Wang, Q. Z. Sheng, W. Ruan, and **Wei Zhang**. “Service Recommendation for Mashup Composition with Implicit Correlation Regularization”. In: *2015 IEEE International Conference on Web Services, ICWS 2015, New York, NY, USA, June 27 - July 2, 2015*. Ed. by J. A. Miller and H. Zhu. IEEE Computer Society, 2015, pp. 217–224. DOI: [10.1109/ICWS.2015.38](https://doi.org/10.1109/ICWS.2015.38). URL: <https://doi.org/10.1109/ICWS.2015.38>.
- [133] Y. Qin, Q. Z. Sheng, N. J. G. Falkner, **Wei Emma Zhang**, and H. Wang. “Indexing Linked Data in a Wireless Broadcast System with 3D Hilbert Space-Filling Curves”. In: *Proceedings of the 23rd ACM International Conference on Conference on Information and Knowledge Management, CIKM 2014, Shanghai, China, November 3-7, 2014*. Ed. by J. Li, X. S. Wang, M. N. Garofalakis, I. Soboroff, T. Suel, and M. Wang. ACM, 2014, pp. 1775–1778. DOI: [10.1145/2661829.2661890](https://doi.org/10.1145/2661829.2661890). URL: <https://doi.org/10.1145/2661829.2661890>.
- [134] **Wei Emma Zhang**. “Graph-based large scale RDF data compression”. In: *The 37th International ACM SIGIR Conference on Research and Development in Information Retrieval, SIGIR ’14, Gold Coast , QLD, Australia - July 06 - 11, 2014*. Ed. by S. Geva, A. Trotman, P. Bruza, C. L. A. Clarke, and K. Järvelin. ACM, 2014, p. 1276. DOI: [10.1145/2600428.2610377](https://doi.org/10.1145/2600428.2610377). URL: <https://doi.org/10.1145/2600428.2610377>.
- [135] A. Shemshadi, Q. Z. Sheng, and **Wei Emma Zhang**. “A Decremental Search Approach for Large Scale Dynamic Ridesharing”. In: *Web Information Systems Engineering - WISE 2014 - 15th International Conference, Thessaloniki, Greece, October 12-14, 2014, Proceedings, Part I*. Ed. by B. Benatallah, A. Bestavros, Y. Manolopoulos, A. Vakali, and Y. Zhang. Vol. 8786. Lecture Notes in Computer Science. Springer, 2014, pp. 202–217. DOI: [10.1007/978-3-319-11749-2\\_16](https://doi.org/10.1007/978-3-319-11749-2_16). URL: [https://doi.org/10.1007/978-3-319-11749-2\\_16](https://doi.org/10.1007/978-3-319-11749-2_16).

## Preprint

- [136] C. Ma, **Wei Emma Zhang**, D. Pitawela, H. Zhuang, and Y. Shu. “Rethinking Transformer-based Multi-document Summarization: An Empirical Investigation”. In: *CoRR* abs/2407.11948 (2024). DOI: [10.48550/ARXIV.2407.11948](https://doi.org/10.48550/ARXIV.2407.11948). arXiv: [2407.11948](https://arxiv.org/abs/2407.11948). URL: <https://doi.org/10.48550/arXiv.2407.11948>.
- [137] E. Alhazmi, Q. Z. Sheng, **Wei Emma Zhang**, M. Zaib, and A. Alhazmi. “Distractor Generation for Multiple-Choice Questions: A Survey of Methods, Datasets, and Evaluation”. In: *CoRR* abs/2402.01512 (2024). DOI: [10.48550/ARXIV.2402.01512](https://doi.org/10.48550/ARXIV.2402.01512). arXiv: [2402.01512](https://arxiv.org/abs/2402.01512). URL: <https://doi.org/10.48550/arXiv.2402.01512>.
- [138] X. Wang, G. P. Figueredo, R. Li, **Wei Emma Zhang**, W. Chen, and X. Chen. “A Survey of Deep Learning-based Radiology Report Generation Using Multimodal Data”. In: *CoRR* abs/2405.12833 (2024). DOI: [10.48550/ARXIV.2405.12833](https://doi.org/10.48550/ARXIV.2405.12833). arXiv: [2405.12833](https://arxiv.org/abs/2405.12833). URL: <https://doi.org/10.48550/arXiv.2405.12833>.
- [139] C. Ma, **Wei Emma Zhang**, H. Wang, H. Zhuang, and M. Guo. “Disentangling Specificity for Abstractive Multi-document Summarization”. In: *CoRR* abs/2406.00005 (2024). DOI: [10.48550/ARXIV.2406.00005](https://doi.org/10.48550/ARXIV.2406.00005). arXiv: [2406.00005](https://arxiv.org/abs/2406.00005). URL: <https://doi.org/10.48550/arXiv.2406.00005>.
- [140] S. Sagar, A. Mahmood, Q. Z. Sheng, J. K. Pabani, and **Wei Emma Zhang**. “Understanding the Trustworthiness Management in the Social Internet of Things: A Survey”. In: *CoRR* abs/2202.03624 (2022). arXiv: [2202.03624](https://arxiv.org/abs/2202.03624). URL: <https://arxiv.org/abs/2202.03624>.
- [141] T. Cai, Q. Z. Sheng, X. Song, J. Yang, **Wei Emma Zhang**, J. Wu, and P. S. Yu. “A Survey on Location-Driven Influence Maximization”. In: *CoRR* abs/2204.08005 (2022). DOI: [10.48550/ARXIV.2204.08005](https://doi.org/10.48550/ARXIV.2204.08005). arXiv: [2204.08005](https://arxiv.org/abs/2204.08005). URL: <https://doi.org/10.48550/arXiv.2204.08005>.
- [142] Y. Qu, **Wei Emma Zhang**, J. Yang, L. Wu, J. Wu, and X. Wu. “Embedding Knowledge for Document Summarization: A Survey”. In: *CoRR* abs/2204.11190 (2022). DOI: [10.48550/ARXIV.2204.11190](https://doi.org/10.48550/ARXIV.2204.11190). arXiv: [2204.11190](https://arxiv.org/abs/2204.11190). URL: <https://doi.org/10.48550/arXiv.2204.11190>.
- [143] C. Ma, **Wei Emma Zhang**, P. D. D. Pitawela, Y. Qu, H. Zhuang, and H. Wang. “Document-aware Positional Encoding and Linguistic-guided Encoding for Abstractive Multi-document Summarization”. In: *CoRR* abs/2209.05929 (2022). DOI: [10.48550/ARXIV.2209.05929](https://doi.org/10.48550/ARXIV.2209.05929). arXiv: [2209.05929](https://arxiv.org/abs/2209.05929). URL: <https://doi.org/10.48550/arXiv.2209.05929>.

- [144] **Wei Emma Zhang**, Q. Z. Sheng, and A. Alhazmi. “Generating Textual Adversarial Examples for Deep Learning Models: A Survey”. In: *CoRR* abs/1901.06796 (2019). arXiv: [1901.06796](https://arxiv.org/abs/1901.06796). URL: <http://arxiv.org/abs/1901.06796>.
- [145] Y. Zhang, Y. Wang, K. Wang, Q. Z. Sheng, L. Yao, A. Mahmood, **Wei Emma Zhang**, and R. Zhao. “When Large Language Models Meet Citation: A Survey”. In: *CoRR* abs/2309.09727 (2023). DOI: [10.48550/ARXIV.2309.09727](https://doi.org/10.48550/ARXIV.2309.09727). arXiv: [2309.09727](https://arxiv.org/abs/2309.09727). URL: <https://doi.org/10.48550/arXiv.2309.09727>.