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. URL: https://doi.org/10.1007/978-3-030-18075-1\5C_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. URL: https://doi.org/10.1007/978-3-030-04173-1\5C_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. 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. URL: https://doi.org/10.1007/978-3-319-49340-4%5C_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. URL: https://doi.org/10.1007/978-3-030-73203-5%5C_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. 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. 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. 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).
- [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).
- [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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. URL: https://doi.org/10.1109/TSC.2019.2944596.
- [34] 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. URL: https://doi.org/10.1109/TBDATA.2018.2872450.
- [35] 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. URL: https://doi.org/10.1145/3448415.
- [36] 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. URL: https://doi.org/10.1007/s00607-020-00794-W.
- [37] 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. URL: https://doi.org/10.1109/COMST.2020.2976075.
- [38] 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. URL: https://doi.org/10.1016/j.jnca.2020.102738.
- [39] 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. URL: https://doi.org/10.1145/3374217.
- [40] 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. URL: https://doi.org/10.1145/3411749.

- [41] 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. URL: https://doi.org/10.5281/zenodo.4118900.
- [42] 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. URL: https://doi.org/10.1145/3284763.
- [43] 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. URL: https://doi.org/10.3390/fi11030070.
- [44] 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. URL: https://doi.org/10.1145/3134438.
- [45] 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. URL: https://doi.org/10.1145/3155806.
- [46] 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. URL: https://doi.org/10.1145/3169795.
- [47] 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. URL: https://doi.org/10.1007/s11280-017-0498-1.
- [48] 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. URL: https://doi.org/10.1007/s00779-017-1034-0.

Conference Publications

- [49] 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.
- [50] 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. URL: https://doi.org/10.1109/ICDE60146.2024.00493.
- [51] 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. URL: https://doi.org/10.18653/v1/2024.naacl-long.430.
- [52] 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. URL: https://doi.org/10.1007/978-981-99-8388-9\5C_6.

- [53] 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. URL: https://doi.org/10.1145/3600046.3600050.
- [54] 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. URL: https://doi.org/10.1109/ICKG59574.2023.00020.
- [55] 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. URL: https://doi.org/10.1109/ICWS60048.2023.00102.
- [56] 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. URL: https://doi.org/10.1109/IJCNN54540.2023.10191910.
- [57] 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. URL: https://doi.org/10.1109/IJCNN54540.2023.10191510.
- [58] 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. URL: https://doi.org/10.1109/IJCNN54540.2023.10191695.
- [59] 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. URL: https://doi.org/10.1145/3625687.3628412.
- [60] 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. URL: https://doi.org/10.1007/978-981-99-7254-8_5C_26.
- [61] 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. URL: https://doi.org/10.1145/3539597.3573042.
- [62] 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. URL: https://doi.org/10.18653/v1/2022.findings-emnlp.309.

- [63] 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.
- [64] 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.
- [65] 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. URL: https://doi.org/10.18653/v1/2022.repl4nlp-1.9.
- [66] 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. DOI: 10.1007/978-3-030-95408-6_7. URL: https://doi.org/10.1007/978-3-030-95408-6_5C_7.
- [67] 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. URL: https://doi.org/10.1109/CIC52973.2021.00018.
- [68] 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. URL: https://doi.org/10.1109/ICKG52313.2021.00040.
- [69] 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. URL: https://doi.org/10.1109/ICDH52753.2021.00018.
- [70] 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. URL: https://doi.org/10.1109/IJCNN52387.2021.9534168.
- [71] 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. URL: https://doi.org/10.1145/3404835.3462780.
- [72] 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. URL: https://doi.org/10.1109/TrustCom53373.2021.00130.

- [73] 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\[\subseten 5C_17. \]
- [74] 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. URL: https://doi.org/10.1007/978-3-030-91560-5%5C_26.
- [75] 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. URL: https://doi.org/10.1007/978-3-030-91560-5_55C_35.
- [76] 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. URL: https://doi.org/10.1145/3373017.3373028.
- [77] 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. URL: https://doi.org/10.1007/978-3-030-49435-3_7.
- [78] 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. URL: https://doi.org/10.1109/CCGrid49817.2020.00017.
- [79] 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. URL: https://doi.org/10.1109/CIC50333.2020.00015.
- [80] 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. URL: https://doi.org/10.1007/978-3-030-58529-7%5C_26.
- [81] 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. URL: https://doi.org/10.1109/ICC40277.2020.9148767.

- [82] 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, AACL/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.aacl-srw.18/.
- [83] 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. URL: https://doi.org/10.1109/IJCNN48605.2020.9207000.
- [84] A. Alhazmi, Wei Emma Zhang, Q. Z. Sheng, and A. Aljubairy. "Are Modern Deep Learning Models for Sentiment Analysis Brittlef 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. URL: https://doi.org/10.1109/IJCNN48605.2020.9207665.
- [85] 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. URL: https://doi.org/10.1109/IJCNN48605.2020.9207078.
- [86] 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/IPSN48710.2020.000-9. URL: https://doi.org/10.1109/IPSN48710.2020.000-9.
- [87] 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. URL: https://doi.org/10.1145/3448891.3448927.
- [88] 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. URL: https://doi.org/10.1007/978-981-16-0010-4_5.
- [89] 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. URL: https://doi.org/10.1007/978-981-16-0010-4_5C_16.
- [90] 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. URL: https://doi.org/10.1145/3419016.3431489.
- [91] 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. URL: https://doi.org/10.1145/3397271.3401196.*

- [92] 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. URL: https://doi.org/10.1109/ SmartIoT49966.2020.00031.
- [93] 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. URL: https://doi.org/10.1109/SCC.2019.00024.
- [94] 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. URL: https://doi.org/10.1145/3290688.3290701.
- [95] 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. URL: https://doi.org/10.1007/978-3-030-36808-1_56.
- [96] 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. URL: https://doi.org/10.1007/978-981-15-0121-0\5C_23.
- [97] 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. URL: https://doi.org/10.1109/INFCOMW.2019.8845260.
- [98] 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. URL: https://doi.org/10.1145/3300061.3343404.
- [99] 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. URL: https://doi.org/10.1145/3360774.3360797.
- [100] 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. URL: https://doi.org/10.1109/PDCAT46702.2019.00038.
- [101] 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. URL: https://doi.org/10.1109/PERCOMW.2019.8730675.

- [102] 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. URL: https://doi.org/10.1109/TrustCom/BigDataSE.2019.00023.
- [103] 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.
- [104] 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. URL: https://doi.org/10.1145/3209978.3210110.
- [105] 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. URL: https://doi.org/10.1007/978-3-030-02925-8%5C_33.
- [106] 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. URL: https://doi.org/10.1007/978-3-319-69179-4%5C_44.
- [107] 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. URL: https://doi.org/10.1007/978-3-319-69179-4%5C_55.
- [108] 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. URL: https://doi.org/10.1007/978-3-319-59536-8_5C_9.
- [109] 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. URL: https://doi.org/10.1007/978-3-319-55753-3_5C_38.
- [110] 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. URL: https://doi.org/10.1007/978-3-319-69035-3%5C_35.

- [111] 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. URL: https://doi.org/10.1145/3038912.3052701.
- [112] 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. URL: https://doi.org/10.1007/978-3-319-69179-4.
- [113] 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. URL: https://doi.org/10.1007/978-3-319-49586-6_5C_47.
- [114] 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. URL: https://doi.org/10.1109/BigDataCongress.2016.74.
- [115] Wei Emma Zhang, M. Tan, Q. Z. Sheng, L. Yao, and Q. Shi. "Efficient Orthogonal Nonnegative 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. URL: https://doi.org/10.1145/2983323.2983761.
- [116] 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. URL: https://doi.org/10.1145/2983323.2983899.
- [117] 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. URL: https://doi.org/10.1145/2983323.2983900.
- [118] 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. URL: https://doi.org/10.1145/2851613.2851846.
- [119] 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.

- [120] 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. URL: https://doi.org/10.1007/978-3-319-48740-3%5C_23.
- [121] 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. URL: https://doi.org/10.1007/978-3-319-18123-3%5C_16.
- [122] 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. URL: https://doi.org/10.5441/002/edbt.2015.14.
- [123] 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. URL: https://doi.org/10.1109/ICPADS.2015.96.
- [124] 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. URL: https://doi.org/10.1109/ICWS.2015.38.
- [125] 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. URL: https://doi.org/10.1145/2661829.2661890.
- [126] 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. URL: https://doi.org/10.1145/2600428.2610377.
- [127] 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. URL: https://doi.org/10.1007/978-3-319-11749-2\500055C_16.

Preprint

- [128] 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. arXiv: 2407.11948. URL: https://doi.org/10.48550/arXiv.2407.11948.
- [129] 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. arXiv: 2402.01512. URL: https://doi.org/10.48550/arXiv.2402.01512.

- [130] 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. arXiv: 2405.12833. URL: https://doi.org/10.48550/arXiv.2405.12833.
- [131] 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. arXiv: 2406.00005. URL: https://doi.org/10.48550/arXiv.2406.00005.
- [132] 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. URL: https://arxiv.org/abs/2202.03624.
- [133] 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. arXiv: 2204.08005. URL: https://doi.org/10.48550/arXiv.2204.08005.
- [134] 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. arXiv: 2204.11190. URL: https://doi.org/10.48550/arXiv.2204.11190.
- [135] 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. arXiv: 2209.05929. URL: https://doi.org/10.48550/arXiv.2209.05929.
- [136] 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. URL: http://arxiv.org/abs/1901.06796.
- [137] 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. arXiv: 2309.09727. URL: https://doi.org/10.48550/arXiv.2309.09727.

Last update: 2024-09-03