Resume of Liang Xiao

Basic Information

School :	School of Computer Science
Gender：	Male
Date of Birth：	197906
Title：	Professor
Education：	Ph.D. of Computer Science
Tutor：	Master degree
Email：	lx@mail.hbut.edu.cn
Interest of research:	Software Engineering (SE), AI, Application of SE in AI/Application of AI in SE, Clinical Decision Support

Academic Background

From September 1997 to July 2001,Huazhong University of Science and Technology, Bachelor's degree in Computer Science and Technology
From September 2002 to September 2003, University of Edinburgh, UK, Master's degree of Informatics
From September 2003 to September 2006, Queen's University Belfast, UK, Ph.D. of Computer Science

Oversea visiting

2012/09-2013/09, Visiting scholar, University of Oxford, UK
2005/09/04-2005/11/12, E.U. Socrates/Erasmus visiting PH.D. student exchange programme, Universidad de Granada, Spain

Enrollment Information

1. Enrollment Discipline: Master of Computer Science
2. Research direction: Software Engineering (SE), AI, Clinical Decision Support
3. Enrollment Year: 2023-2024

Representative Projects

1. National Natural Science Foundation of China Project "Towards Rule-Driven Adaptive Multi-Agent System" 260k CNY, Project leader.
2. National Natural Science Foundation of China Project "Developing an Agent-oriented Clinical Knowledge Network and Decision Support Platform", 150k CNY, Project leader.
3. Health Research Board (HRB) funded Irish National Research Centre for Primary Care, Royal College of Surgeons in Ireland (RCSI), lead of Work Package 3.
4. EU Framework 6 Project "HealthAgents", main participant.
5. EU Framework 6 Project "OpenKnowledge ", main participant.
6. Hubei Provincial Department of Health Project "Data interchange standards for the

Hubei province", Project leader.
7. Hubei Provincial Department of Health Project "Clinical decision support standards for the Hubei province", Project leader.
8. Hubei Provincial Department of Health Project "Project management system design and development for the Hubei province", Project leader.
9. Science Foundation Council of Wuhan City, "Software Adaptivity in Distributed Environment and its Application to Cloud Computing", Project leader.

Representative Articles

1. Xiao L, Greer D., "Linked Argumentation Graphs for Multidisciplinary Decision Support", Healthcare, 11, 4, 585, 2023. SCI
2. Liu Z, Xiao L, "Toward a Value-Based Therapy Recommendation Model", Healthcare, 11, 16, 2362, 2023. SCI
3. Liu, Z., Xiao, L., Chen, J.X., Song, L.L., Qi, P., and Tong, Z.F., A Multimodal Knowledge Graph for Medical Decision Making Centred Around Personal Values, Proceedings of the 26th International Conference on Computer Supported Cooperative Work in Design (CSCWD 2023).
4. Liu, P.F., and Xiao, L., An Intelligent Human-Agent Interaction Support System in Medicine, Proceedings of the 26th International Conference on Computer Supported Cooperative Work in Design (CSCWD 2023).
5. Guo, X.R., and Xiao, L., The Design of A Multi-Agent Protocol for Swarm Decision Making, Proceedings of the 26th International Conference on Computer Supported Cooperative Work in Design (CSCWD 2023).
6. Xiao, L., Zhou, H., Fox, J., "Towards a systematic approach for argumentation, recommendation, and explanation in clinical decision support", Mathematical Biosciences and Engineering, Special Issue: Biomedical informatics for clinical applications, Volume 19, Issue 10: 10445-10473, 2022. SCI
7. Tian, J.B., Yin, J.H., Xiao, L., "Software Requirements Engineer's Ability Assessment Method Based on Empirical Software Engineering", Volume 2022, Article ID 3617140, 2022. SCI
8. Xiao, L., "Towards Evidence-based Argumentation Graph for Clinical Decision Support", Proceedings of the 35th IEEE International Symposium on Computer Based Medical Systems (CBMS 2022), pp. 400-405, 2022.
9. Ye, Y.L., Xiao, L., "A goal-driven approach for clinical decision conflict detection and its application to the treatment of multimorbidity", Proceedings of the 35th IEEE International Symposium on Computer Based Medical Systems (CBMS 2022), 2022.
10. Liu, Z., Xiao, L., Chen, J., Yu, H., and Ye, Y., "An Emotion-fused Medical Knowledge Graph and its Application in Decision Support", Proceedings of the 46th IEEE Annual Computers, Software, and Applications Conference (COMPSAC), pp. 1381-1388, 2022.
11. Xiao, L., Hu, K.Y., Fox, J., "A Group Decision Description Language and its Clinical Application", Proceedings of the 3rd World Symposium on Software Engineering (WSSE 2021), ACM.
12. Xiao, L., Hu, K.Y., Chen, J.X., "An Agent Interaction Protocol Language for Describing Group Decision-Making", Proceedings of the 2021 IEEE International Conference on Information Communication and Software Engineering (ICICSE 2021), pp. 238-247, IEEE Press, 2021.
13. Yu, H., Xiao, L., "A Medical Guidance Model Driven by Subjective and Objective Knowledge", Proceedings of the 2021 IEEE International Conference on Artificial Intelligence and Industrial

Design (AIID 2021), pp. 161-168, IEEE Press, 2021.

14. Wu, C.Q., Xiao, L., “Evidence based on patient’s experience data and clinical guidelines-for patient-oriented clinical decision support”, Proceedings of the 2021 International Conference on Public Health and Data Science (ICPHDS 2021), pp. 240-247, IEEE Press, 2021.
15. Yu, H., Xiao, L., “A Flexible Clinical Decision Support Model and its Application to COVID-19”, 2021 2nd International Seminar on Artificial Intelligence, Networking and Information Technology (AINIT), 2021, pp. 271-276.
16. Huang, J.M., Xiao, L., Yang, J.Y., Cheng, M., “Towards a Semantic-enabled Agent-oriented Distributed Clinical Decision Model”, Proceedings of the 2021 IEEE International Conference on Consumer Electronics and Computer Engineering (ICCECE 2021), pp. 500-510, IEEE Press, 2021.
17. Yang, J.Y., Xiao, L., Li, K.N., “Modelling clinical experience data as an evidence for patient-oriented decision support”, BMC Medical Informatics and Decision Making 2020, 20(Suppl 3):138. SCI
18. Cheng, M., Xiao, L., Chen. S.M., Huang, J.M., “Multi-step Reasoning for Knowledge Graph Completion”, Proceedings of the 2nd International Conference on Machine Learning, Big Data and Business Intelligence (MLBDBI 2020), pp. 534-539, 2020.
19. Huang, J.M., Xiao, L., Yang, J.Y., Chen, S.M., “Using knowledge Graphs to Enhance the Interpretability of Clinical Decision Support Model”, Proceedings of the 2020 International Conference on Computer Science and Management Technology (ICCSMT 2020), pp. 155-122, 2020.
20. Chen, S.M., Xiao, L., Cheng, M., “A Semantic-based Multi-agent Dynamic Interaction Model”, Proceedings of The 2nd World Symposium on Software Engineering (WSSE 2020), pp. 101-108, ACM International Conference Proceeding Series, 2020.
21. Ababio, I.B., Chen, J.X., Chen, Y., and Xiao, L., “Link Prediction Based on Heuristics and Graph Attention”, Proceedings of the 2020 IEEE International Conference on Big Data, 2020.
22. Chen, J.X., Chen, Y., and Xiao, L., “A Novel Approach of Automatic Judgment For Subjective Questions”, Proceedings of the 2020 16th International Conference on Natural Computation, Fuzzy Systems and Knowledge Discovery (ICNC-FSKD 2020), 2020.
23. Xiao, L., "An Agent-Oriented Group Decision Architecture", In: Jezic, G., Chen-Burger, Y.H., Kusek, M., Šperka, R., Howlett, R.J., Jain, L.C., (eds.), Agents and Multi-agent Systems: Technologies and Applications 2019, the 13th KES International Conference (KES-AMSTA-2019), St. Julians, Malta, June 2019, Springer, pp. 15-33, 2019.
24. Xiao, L., " A Hierarchical Agent Decision Support Model and Its Clinical Application", In: Jezic, G., Chen-Burger, Y.H., Kusek, M., Šperka, R., Howlett, R.J., Jain, L.C., (eds.), Agents and Multi-agent Systems: Technologies and Applications 2019, the 13th KES International Conference (KES-AMSTA-2019), St. Julians, Malta, June 2019, Springer, pp. 195-214, 2019.
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26. Chen, Z.H., Xiao, L., "Agent component reuse based on ontology concept similarity", Proceedings of the 2nd International Conference on Computers in Management and Business (ICCMB 2019), ACM, 2019.
27. Cao, L., Xiao, L., Xiao, Y.M., "Secure Social Model Based on IRBAC Mobile", Proceedings of the 3rd International Conference on Management Engineering, Software Engineering and Service

Sciences (ICMSS 2019), ACM, 2019.
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31. Xiao, L. & Fox, J., "A Knowledge Model and its Application to Agent-oriented Clinical Decision Support", Proceedings of the 2017 10th International Congress on Image and Signal Processing, BioMedical Engineering and Informatics (CISP-BMEI 2017), IEEE Press, 2017.
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53. Xiao, L., From adaptive software bahaviour to adaptive robotic bahaviour, Proceedings of the 2012 IEEE International Conference on Systems and Informatics (ICSAI'2012), pp.2448-2452, 2012.
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64. Xiao, L., Greer, D., "A Knowledge Hierarchy Model for Adaptive Multi-Agent Systems", International Journal of Computer Applications in Technology, 31(1/2):3-16, 2008.
65. Xiao, L., Lewis, P., Gibb, A., "Developing a Security Protocol for a Distributed Decision Support System in a Healthcare Environment", Proceedings of the 30th International Conference on Software Engineering (ICSE'08), pp.673-682, ACM, 2008. CCF-A Top conference, paper ranked one of the best 4 in that session.
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