Journal

1. Li, C.g, & **Xing, W.,** Leite, W. (2022). Building socially responsible conversational agents using big data to support online learning: A case with algebra nation. *British Journal of Educational Technology.* [*https://bera-journals.onlinelibrary.wiley.com/doi/full/10.1111/bje  
   t.13227*](https://bera-journals.onlinelibrary.wiley.com/doi/full/10.1111/bjet.13227)[IF: 4.929, SSCI]
2. Li, C.g, & **Xing, W.,** Leite, W. (2022). Towards Building a Fair Peer Recommender to Support Help-Seeking in Online Learning. *Distance Education*. <https://doi.org/10.1080/01587919.2021.2020619> [IF: 2.952, SSCI]
3. Liu, B.g, **Xing, W.,** Zeng, Y.g, & Wu, Y. (2022). Linking cognitive processes and learning outcomes: The influence of cognitive presence on learning performance in MOOCs. *British Journal of Educational Technology.* <https://doi.org/10.1111/bjet.13193>[IF: 4.929, SSCI]
4. Tang, H., Arslan, O.g, **Xing, W.,** & Kamali‑Arslantas, T. (2022). Exploring collaborative problem solving in virtual laboratories: a perspective of socially shared metacognition. *Journal of Computing in Higher Education*. [https://link.springer.com/article  
   /10.1007/s12528-022-09318-1](https://link.springer.com/article/10.1007/s12528-022-09318-1) [IF: 2.627, SSCI]
5. **Xing, W.,** Du, D., Bakhshi, A., Chiu, K. C., & Du, H.g (2021). Designing a Transferable Predictive Model for Online Learning Using a Bayesian Updating Approach. *IEEE Transactions on Learning Technologies*, *14*(4), 474-485. [IF: 3.720, SCI & SSCI]
6. Arslan, O.g, **Xing, W.,** Inan, F. A., & Du, H.g (2021). Understanding topic duration in Twitter learning communities using data mining. *Journal of Computer Assisted Learning*. 1-13. [IF: 3.862, SSCI]
7. **Xing, W**., Li, C.g, Chen, G., Huang, X., Chao, J., Massicotte, J., & Xie, C. (2021). Automatic Assessment of Students’ Engineering Design Performance Using a Bayesian Network Model. *Journal of Educational Computing Research*, *59*(2), 230-256. [IF: 3.088, SSCI]
8. Li, C.g, & **Xing, W.** (2021). Natural Language Generation Using Deep Learning to Support MOOC Learners. *International Journal of Artificial Intelligence in Education*, 1-29.
9. **Xing, W.,** & Wang, X. (2021). Understanding students’ effective use of data in the age of big data in higher education. *Behaviour & Information Technology*, 1-18. [IF: 3.086, SCI & SSCI]
10. Du, H.g, **Xing, W.,** & Pei, B.g (2021). Automatic text generation using deep learning: providing large-scale support for online learning communities. *Interactive Learning Environments*, 1-16. [IF: 3.928, SSCI]
11. Pei, B.g, & **Xing, W.** (2021). An Interpretable Pipeline for Identifying At-Risk Students. *Journal of Educational Computing Research*, 07356331211038168. [IF: 3.088, SSCI]
12. Zhu, G., Zeng, Y.g, **Xing, W.,** Du, H.g, & Xie, C. (2021). Reciprocal Relations between Students’ Evaluation, Reformulation Behaviors, and Engineering Design Performance Over Time. *Journal of Science Education and Technology*, 1-13. [IF: 2.315, SSCI]
13. Tang, H., & **Xing, W.** (2021). Massive open online courses for professional certificate programs? Perspectives on professional learners’ longitudinal participation patterns. *Australasian Journal of Educational Technology*, 136-147. [IF: 3.067, SSCI]
14. Pei, B.g, **Xing, W.,** & Wang, M. (2021). Academic development of multimodal learning analytics: a bibliometric analysis. *Interactive Learning Environments*, 1-19. [IF: 3.928, SSCI]
15. Liu, B.g, **Xing, W.,** Zeng, Y.g, & Wu, Y. (2021). Quantifying the Influence of Achievement Emotions for Student Learning in MOOCs. *Journal of Educational Computing Research*, *59*(3), 429-452. [IF: 3.088, SSCI]
16. Wang, X., & **Xing, W.** (2021). Supporting Youth with Autism Learning Social Competence: A Comparison of Game-and Nongame-Based Activities in 3D Virtual World. *Journal of Educational Computing Research*, 07356331211022003. [IF: 3.088, SSCI]
17. Liu, B.g, Wu, Y., **Xing, W.,** Cheng, G., & Guo, S. (2021). Exploring behavioural differences between certificate achievers and explorers in MOOCs. *Asia Pacific Journal of Education*, 1-13. [IF: 1.057, SSCI]
18. Zhu, G., Raman, P., **Xing, W.,** & Slotta, J. (2021). Curriculum design for social, cognitive and emotional engagement in Knowledge Building. *International Journal of Educational Technology in Higher Education, 18*(1), 1-19. [IF: 4.944, SSCI]
19. **Xing, W.,** Lee, H. S., & Shibani, A. (2020). Identifying patterns in students' scientific argumentation: content analysis through text mining using Latent Dirichlet Allocation. *Educational Technology Research & Development*, *68*(5). [IF: 3.565, SSCI]
20. Zheng, J., **Xing, W.,** Zhu, G., Chen, G., Zhao, H.g, & Xie, C. (2020). Profiling self-regulation behaviors in STEM learning of engineering design. *Computers & Education*. [IF: 8.538, SSCI]
21. Li, S., Du, H.g, **Xing, W.,** Zheng, J., Chen, G., & Xie, C. (2020). Examining temporal dynamics of self-regulated learning behaviors in STEM learning: A network approach. *Computers & Education*, *158*, 103987. [IF: 8.538, SSCI]
22. Zheng, J., **Xing, W.,** Huang, X., Li, S., Chen, G., & Xie, C. (2020). The role of self-regulated learning on science and design knowledge gains in engineering projects. *Interactive Learning Environments*, 1-13. [IF: 3.928, SSCI]
23. Li, S., Chen, G., **Xing, W.,** Zheng, J., & Xie, C. (2020). Longitudinal clustering of students’ self-regulated learning behaviors in engineering design. *Computers & Education*, *153*, 103899. [IF: 8.538, SSCI]
24. **Xing, W**., Pei, B.g, Li, S., Chen, G., & Xie, C. (2019). Using learning analytics to support students’ engineering design: the angle of prediction. *Interactive Learning Environments*, 1-18. [IF: 1.938, SSCI]
25. **Xing, W**., Tang, H., & Pei, B.g (2019). Beyond positive and negative emotions: Looking into the role of achievement emotions in discussion forums of MOOCs. *Internet and Higher Education*, *43*, 100690. [IF: 6.566, SSCI]
26. Pei, B.g**,** **Xing, W.,** & Lee, H.S (2019). Using automatic image processing to analyze visual artifacts created by students in scientific argumentation. *British Journal of Educational Technology, 50*(6), 3391-3404*.* [IF: 2.951, SSCI]
27. **Xing, W.,** Popov, V., Zhu, G., Horwitz, P., & McIntyre, C. (2019). The effects of transformative and non-transformative discourse on individual performance in collaborative-inquiry learning. *Computers in Human Behavior*, *98*, 267-276. [IF: 5.003, SSCI]
28. **Xing, W.,** & Du, D. P. (2019). Dropout prediction in MOOCs: Using deep learning for personalized intervention. *Journal of Educational Computing Research*, *57*(3), 755-776.[IF: 2.180, SSCI]
29. **Xing, W.** (2019). Large-scale path modeling of remixing to computational thinking. *Interactive Learning Environments*, 1-14. [IF: 1.938, SSCI]
30. **Xing, W.** (2019). Exploring the influences of MOOC design features on student performance and persistence. *Distance Education*, *40*(1), 98-113. [IF: 1.702, SSCI]
31. Zhu, G., **Xing, W.,** Costa, S., Scardamalia, M., & Pei, B.g (2019). Exploring emotional and cognitive dynamics of knowledge building in grades 1 and 2. *User Modeling and User-Adapted Interaction (UMUAI), 29*(4), 789-820*.* [IF: 4.682, SCI]
32. Tang, H., **Xing, W.,** & Pei, B.g(2019). Time really matters: Understanding the temporal dimension of online learning using educational data mining. *Journal of Educational Computing Research*, *57*(5), 1326-1347.[IF: 2.180, SSCI]
33. Liu, B.g, **Xing, W.,** Wu, Y., Li, R., Tian, Y., & Ma, X. (2019). Students’ Interaction and Perceptions in a Large Enrolled Blended Seminar Series Course. *The Turkish Online Journal of Educational Technology. 18*(03), 88-96[SSCI]
34. Zheng, J., **Xing, W.,** & Zhu, G. (2019). Examining sequential patterns of self-and socially shared regulation of STEM learning in a CSCL environment. *Computers & Education*, *136,* 34 – 48. [IF: 5.296, SSCI]
35. Wang, X., & **Xing, W.** (2019). Understanding elementary students’ use of digital textbooks on mobile devices: A structural equation modeling approach. *Journal of Educational Computing Research*, *57*(3), 755-776. [IF: 2.180, SSCI]
36. Zhu, G., **Xing, W.,** & Popov, V. (2019). Uncovering the sequential patterns in transformative and non-transformative discourse during collaborative inquiry learning. *Internet and Higher Education*, *41*, 51-61. [IF: 6.566, SSCI]
37. **Xing, W.,** & Gao, F. (2018). Exploring the relationship between online discourse and commitment in Twitter professional learning communities. *Computers & Education, 126,* 388-398. [IF: 5.627, SSCI]
38. **Xing, W.,** Goggins, S., & Introne, J. (2018). Quantifying the effect of informational Support on membership retention in online communities through large-scale data analytics. *Computers in Human Behavior*, *86*, 227-234. [IF: 4.306, SSCI]
39. Tang, H., **Xing, W.,** & Pei, B.g(2018). Exploring the temporal dimension of forum participation in MOOCs. *Distance Education*, *39(*3), 353-372. [IF: 1.729, SSCI]
40. Wang, X., & **Xing, W.** (2018). Autistic youth in 3D game-based collaborative virtual learning: Associating avatar interaction patterns with embodied social presence. *British Journal of Educational Technology, 49*(4), 742-760. [IF: 2.588, SSCI]
41. Tawfik, A., Law, V., Xun, G. **Xing, W.,** & Kyung K. (2018). The effect of sustained vs. faded scaffolding on students’ argumentation in ill-structured problem solving. *Computers in Human Behavior, 87,* 436-449. [IF: 4.306, SSCI]
42. Wang, X., & **Xing, W.** (2018). Exploring the influence of parental involvement and socioeconomic status on teen digital citizenship: a path modeling approach. *Educational Technology & Society. 21(1),* 186-199. [IF: 2.133, SSCI]
43. Wang, X., Laffey, J., **Xing**, **W.**, Galyen, K., & Stichter, J. (2017). Fostering verbal and non-verbal social interactions in a 3D collaborative virtual learning environment: A case study of youth with autism spectrum disorders learning social competence in iSocial. *Educational Technology Research & Development 65(*4), 1015-1039. [IF: 2.115, SSCI]
44. **Xing, W.,** Chen, X., Stein, J., & Marcinkowski, M. (2016). Temporal predication of dropouts in MOOCs: Reaching the low hanging fruit through stacking generalization. *Computers in Human Behavior*, *58*, 119-129. [IF: 3.435, SSCI]
45. Goggins, S., & **Xing, W.** (2016). Building models explaining student participation behavior in asynchronous online discussion. *Computers & Education*, *94*, 241-251. [IF: 3.819, SSCI]
46. Wang, X., Laffey, J., **Xing**, **W.,** & Ma, Y. (2016). Exploring embodied social presence of youth with Autism in 3D collaborative virtual learning environment: A case study. *Computers in Human Behavior*, *55*, 310-321. [IF: 3.435, SSCI]
47. **Xing, W.**, Guo, R., Petakovic, E., & Goggins, S. (2015). Participation-based student final performance prediction model through interpretable genetic programming: Integrating learning analytics, educational data mining and theory. *Computers in Human Behavior*. *47*, 168-181. [IF: 3.435, SSCI]
48. **Xing, W.**, Wadholm, B., & Goggins, S. (2015) Group learning assessment: Developing theory-informed analytics. *Educational Technology & Society*. *18*(2), 110-128. [IF: 1.34, SSCI]
49. Goggins, S., **Xing, W.**, Chen, X., Chen, B., & Wadholm, B. (2015). Learning analytics at “small scale”: Exploring a complexity-grounded model for assessment automation. *Journal of Universal Computer Science*. *21*(1), 66-92. [IF: 1.066, SCI]

Conference

1. Li, C.g, & **Xing, W.,** (2022, June). Revealing Factors Influencing Students' Perceived Fairness: A Case with a Predictive System for Math Learning. In Learning@Scale: 2022 ACM Conference on Learning at Scale. New York City, New York
2. Li, C.g, **Xing, W.,** & Leite, W. (2022, March). Do Gender and Race Matter? Supporting Help-Seeking with Fair Peer Recommenders in an Online Algebra Learning Platform. In *LAK22: 12th International Learning Analytics and Knowledge Conference* (pp. 432-437)*.* Virtual. [Acceptance rate: 29.5%]
3. Li, C.g, **Xing, W.,** & Leite, W. (2021, June). Using Fair AI with Debiased Network Embeddings to Support Help Seeking in an Online Math Learning Platform. In *International Conference on Artificial Intelligence in Education* (pp. 245-250). Springer, Cham. [Acceptance rate: 24.2%]
4. Li, C.g, **Xing, W.,** & Leite, W. (2021, April). Yet Another Predictive Model? Fair Predictions of Students’ Learning Outcomes in an Online Math Learning Platform. In *LAK21: 11th International Learning Analytics and Knowledge Conference* (pp. 572-578). Virtual. [Acceptance rate: 31%]
5. Du, H.g, **Xing, W.,** Zhang. Y. (2021). A Debugging Learning Trajectory for Text-Based Programming Learners. *In Proceedings of the 26th ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE)* *V.2 (pp. 645-645).*
6. Nguyen, V. T.g, Zhang, Y., Jung, K., **Xing, W.**, & Dang, T. (2020, January). VRASP: A Virtual Reality Environment for Learning Answer Set Programming. In *International Symposium on Practical Aspects of Declarative Languages* (pp. 82-91). Springer, Cham.
7. Huang, X., **Xing, W.,** Zhao, H.g,, Chao, J., Schimpf, C., Chen, G. & Xie, C. (2020, June). Understanding science learning through writings on engineering design. In *Proceedings of the 2020 International Conference of the Learning Sciences (ICLS, 2020),* (Vol. 1, pp. 1771-1773),Nashville, TN: International Society of the Learning Sciences.
8. Du, H.g, Nguyen, L., Yang, Z., Abu-Gellban, H., Zhou, X., **Xing, W.,** ... & Jin, F. (2019, July). Twitter vs News: Concern Analysis of the 2018 California Wildfire Event. In *2019 IEEE 43rd Annual Computer Software and Applications Conference (COMPSAC)* (Vol. 2, pp. 207-212). IEEE.
9. Zheng, J., **Xing, W.,** Zhu, G., Chen, G., Zhao, H. g, & Huang, X. (2019). Person-oriented approach to profiling learnings’ self-regulation in STEM learning. In *Proceedings of the 9th International Conference on Learning Analytics and Knowledge* - LAK ’19 (pp. 245-246). Tempe, Arizona.
10. Tang, H. & **Xing, W.** (2019). Achievement emotions and attritions in Massive Open Online Courses: Using machine learning models, In *Proceedings of the 9th International Conference on Learning Analytics and Knowledge* - LAK ’19 (368-373). Tempe, Arizona.
11. Pei, B.**\***, Zhao, H., **Xing, W.**, & Lee, H. S. (2019). The Exploration of Automated Image Processing Techniques in the Study of Scientific Argumentation. In *Cognitive Computing in Technology-Enhanced Learning* (pp. 175-190). IGI Global.
12. Popov, V., **Xing, W.,** Zhu, G., Horwitz, P., & McIntyre, C. (2018, June). The influence of students’ transformative and non-transformative contributions on their problem solving in collaborative inquiry learning. In J, Key, & R. Luckin (Eds.), rethinking Learning in the Digital Age. Making the Learning Sciences Count: In *Proceedings of The International Conference of the Learning Sciences (ICLS, 2018),* (Vol. 3, pp. 855-862). London, UK: International Society of the Learning Sciences. [Acceptance rate: 32%; ~5000 words]
13. Arslan, O.g, **Xing, W.,** Horwitz, P, & McIntyre, C. (2018). Examining the influence of socially shared metacognition on group problem solving. In *Proceedings of the 8th International Conference on Learning Analytics and Knowledge* - LAK ’18 (pp. 1-3). Sydney, Australia.
14. Aragon, C., Hutto, C., Echenique, A.,., ... & **Xing, W.** (2016, February). Developing a research agenda for human-centered data science. In *Proceedings of the 19th ACM Conference on Computer Supported Cooperative Work and Social Computing Companion* (pp. 529-535). ACM.
15. Guo, Y., **Xing, W.,** & Lee, H. S. (2015, November). Identifying students' mechanistic explanations in textual responses to science questions with association rule mining. In *Data Mining Workshop (ICDMW), 2015 IEEE International Conference on* (pp. 264-268). IEEE.
16. **Xing, W.**, Kim, S., & Goggins, S. (2015). Modeling performance in asynchronous CSCL: An exploration of social ability, collective efficacy and social interaction. In O. Lindwall, P. Hakkinen, T. Koschman, P. Tchounikine, & S. Ludvigsen. (Eds.), Exploring the Material Conditions of Learning: *Proceedings of The Computer Supported Collaborative Learning (CSCL 2015),* (Vol 1, pp. 276-283). Gothenburg, Sweden: International Society of the Learning Sciences. [Acceptance rate: 36%; ~5000 words]
17. **Xing, W.**, & Goggins, S. (2015). Learning analytics in outer space: a Hidden Naïve Bayes model for automatic student off-task behavior detection. In *Proceedings of the Fifth International Conference on Learning Analytics And Knowledge* - LAK ’15 (pp. 176-183). New York, NY, USA: ACM. doi:10.1145/2723576.2723602 [Acceptance rate: 27%; ~7000 words]
18. Chen, B., Chen, X., & **Xing, W.** (2015). “Twitter Archeology” of learning analytics and knowledge conferences. In *Proceedings of the Fifth International Conference on Learning Analytics and Knowledge* - LAK ’15 (pp. 340-349). New York, NY, USA: ACM. doi: 10.1145/2723576.2723584 [Acceptance rate: 27%; ~8000 words]
19. **Xing, W.**, & Goggins, S. (2015). Student assessment in small groups: A spectral clustering model. In *iConference 2015 Proceedings* (pp. 1-5). Newport Beach, CA: IDEALS. Available online: http://hdl.handle.net/2142/73711
20. **Xing, W.**, Wadholm, B., & Goggins, S. (2014). Learning analytics in CSCL with a focus on assessment: An exploratory study of activity theory-informed cluster analysis. In *Proceedings of the Fourth International Conference on Learning Analytics And Knowledge*- LAK ’14 (pp. 59-67). ACM. New York, NY, USA: ACM. doi: [10.1145/2567574.2567587](http://dx.doi.org/10.1145/2567574.2567587) [Acceptance rate: 30%; ~7000 words]
21. **Xing, W.**, & Wu, Y. (2014). Assessment intelligence in small group learning. In D. G. Sampson, J. M. Spector, D. Ifenthaler, & P. Isaias (Eds.), *IADIS international conference on cognition and exploratory learning in the digital age (CELDA 2014)* (pp. 47-54). Porto, Portugal: IADIS.
22. **Xing, W.**, Wadholm, B., & Goggins, S. (2014). Assessment analytics in CSCL: Activity theory based method. In J. L. Polman, E. A. Kyza, D. K. O'Neill, I. Tabak, W. R. Penuel, A. S. Jurow, K. O'Connor, T. Lee & L. D'Amico (Eds.), Learning and Becoming in Practice: *Proceedings of the 11th International Conference of the Learning Sciences* *(ICLS 2014)*, (Vol. 3, pp. 1535-1536). Boulder, CO: International Society of the Learning Sciences.
23. **Xing, W.**, Guo, R., Richardson, B., & Kochtanek, T. (2014). Google Analytics spatial data visualization: Thinking outside of the box. In S. Yamamoto (Ed.), *Human Interface and the Management of Information: Information and Knowledge Design and Evaluation* (pp. 120-127). New York, NY: Springer. ISBN 978-3-319-07730-7. doi: 10.1007/978-3-319-07731-4\_12
24. **Xing, W.**, Guo, R., Lowrance, N., & Kochtanek, T. (2014). Decision support based on time-series analytics: A cluster methodology. In *Human Interface and the Management of Information: Information and Knowledge in Applications and Services* (pp. 217-225). New York, NY: Springer. ISBN 978-3-319-07862-5. doi: 10.1007/978-3-319-07863-2\_22
25. **Xing, W.**, & Goggins, S. (2014). Automated CSCL group assessment: activity theory based computational method. In *LAK Workshops: Computational Approaches to Connecting Levels of Analysis in Networked Learning Communities*.
26. Ma, Y., Friel, C., & **Xing, W.** (2014). Instructional activities in a discussion board forum of an e-leaning management system. In *HCI International 2014-Posters’ Extended Abstracts* (pp. 112-116). Crete, Greece: Springer International Publishing. doi: 10.1007/978-3-319-07854-0\_20.
27. Ma, Y., **Xing, W.**, & Friel, C. (2013). Factors and cues impacting user information selection and processing performance in kiosk touch screen interfaces. In *HCI International 2013-Posters’ Extended Abstracts* (pp. 56-60). Las Vegas, Nevada: Springer Berlin Heidelberg. doi: 10.1007/978-3-642-39473-7\_12