

Zhu, Bo-wei



Position : Assistant Professor
Faculty : Faculty of Humanities and Arts
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Teaching and Research Areas :

Management of Built Environment, Multiple Attribute
Decision Making

Academic Qualifications

2015 - 2019 Ph.D. in Graduate Institute of Urban Planning, National Taipei University.
2011 - 2014 M.S. in Design Art, Harbin Institute of Technology.
2007 - 2011 B.S. in Art Design, Harbin Institute of Technology.

Teaching Experiences

Sept. 2019 to present Assistant Professor / Faculty of Humanities and Arts / Macau University of Science and Technology
2017.2 - 2019.8 Lecturer / Faculty of Humanities and Arts / Macau University of Science and Technology

Representative Publications

Journal Articles:

Zhu, B. W., Xiao, Y. H., Zheng, W. Q., Xiong, L.*, He, X. Y., Zheng, J. Y., & Chuang, Y. C. (2022). A Hybrid Multiple-Attribute Decision-Making Model for Evaluating the Esthetic Expression of Environmental Design Schemes. *SAGE Open*, 12(2), 21582440221087268. [SSCI, IF: 2.032]
Sheng, G., Liao, L., Xiong, L., **Zhu, B.W.**, & Cheung, S. M. (2022). Revitalization and Development Strategies of Fostering Urban Cultural Heritage Villages: A Quantitative Analysis Integrating Expert and Local Resident Opinions. *Systems*, 10(6), 202. [SSCI, IF: 2.895]
Mei, L., Liu, K., Xiong, L.*, & **Zhu, B. W.*** (2022). Approach Based on Data Mining for

Exploring the Hierarchical Decision-Making Rules between the Generation of Transnational Immigrants' Sense of Place in Religious Spaces and Perception of the Environment. *Religions*, 13(3), 195. [A&HCI]

Mei, L., Liu, K., & **Zhu, B. W.*** (2021). Enhancing the Health and Well-Being of People with Chronic Diseases: Assessment and Sustainable Development Planning for Therapeutic Landscapes after Urban Expansion. *Journal of Healthcare Engineering*, 2021. (corresponding author) [SCI, IF: 3.822]

Xiong, L., Sheng, G., Fan, Z. M., Yang, H., Hwang, F. J., & **Zhu, B. W.*** (2021). Environmental design strategies to decrease the risk of nosocomial infection in medical buildings using a hybrid MCDM model. *Journal of Healthcare Engineering*, 2021. (corresponding author) [SCI, IF: 3.822]

Li, S. J., Luo, Y. F., Liu, Z. C., Xiong, L., & **Zhu, B. W.*** (2021). Exploring Strategies for Improving Green Open Spaces in Old Downtown Residential Communities from the Perspective of Public Health to Enhance the Health and Well-Being of the Aged. *Journal of Healthcare Engineering*, 2021. (corresponding author) [SCI, IF: 3.822]

Zhang, M. C., **Zhu, B. W.***, Huang, C. M., & Tzeng, G. H*. (2021). Systematic Evaluation Model for Developing Sustainable World-Class Universities: An East Asian Perspective. *Mathematics*, 9(8), 837. (corresponding author) [SCI, IF: 2.592]

Zhu, B. W., Huang, Z., Xiong, L.* (2020). Application of the Kano Model and DEMATEL Technique to Explore Sustainable Promotion Strategies for Thai-Chinese Temples as Tourist Attractions. *Religions* 2020, 11(4), 199. [A&HCI]

Xiong, L., Teng, C. L., Li, Y. Q., Lee, Y. Z., **Zhu, B. W.***, & Liu, K. (2019). A Qualitative-Quantitative Evaluation Model for Systematical Improving the Creativity of Students' Design Scheme. *Sustainability*, 11(10), 2792. (corresponding author) [SCI & SSCI, IF: 3.889]

Qu, G. B., Zhao, T. Y., **Zhu, B. W.**, Tzeng, G. H., & Huang, S. L. (2019). Use of a Modified DANP-mV Model to Improve Quality of Life in Rural Residents: The Empirical Case of Xingshisi Village, China. *International Journal of Environmental Research and Public Health*, 16(1), 153.[SCI & SSCI IF: 4.614]

Feng, I., Chen, J. H., **Zhu, B. W.***, & Xiong, L. (2018). Assessment of and Improvement Strategies for the Housing of Healthy Elderly: Improving Quality of Life. *Sustainability*, 10(3), 722. (corresponding author) [SCI & SSCI, IF: 3.889]

Xiong, L., Teng, C. L., **Zhu, B. W.**, Tzeng, G. H., & Huang, S. L. (2017). Using the D-DANP-mV Model to Explore the Continuous System Improvement Strategy for Sustainable Development of Creative Communities. *International Journal of Environmental Research and Public Health*, 14(11), 1309.1-37. [SCI & SSCI IF: 4.614]

Zhu, B. W., Zhang, J. R., Tzeng, G. H., Huang, S. L., & Xiong, L. (2017). Public Open

Space Development for Elderly People by Using the DANP-V Model to Establish Continuous Improvement Strategies Towards a Sustainable and Healthy Aging Society. *Sustainability*, 9(3),1-29. [SCI & SSCI, IF: 3.889]

Conference Proceedings:

Zhu, B. W., Xing, Y. N., Xiong, L., Tzeng, G.H., Huang, S.L. (2017) Two Kinds of New Models for Making Strategies: Modified DANP-V Model and SWOT-DEMATEL Model. 24th International Conference on Multiple Criteria Decision Making, Canada, 2017

Xiong, L., **Zhu, B. W.*** (2019). A Hybrid Model for Evaluating the Performance of the Collaborative Design Process of Interdisciplinary Teamwork in Design Education. 2nd Eurasian Conference on Educational Innovation 2019. Oral presentation in Jan 27, 2019.

Zhu, B. W., Xiong, L.* (2021) Effects of Getting More about the Creativity Criteria on Performance Improvement of Students' Design Schemes in Architecture Design Studio. 4nd Eurasian Conference on Educational Innovation. Taiwan. Oral presentation in Feb 06, 2021.

Xiong, L., **Zhu, B. W.*** (2021). Integrating MCDM and Data Mining Method to Develop a New Teaching Programme for Case Analysis Course in the Basic Semester of Landscape Architecture. 4nd Eurasian Conference on Educational Innovation. Taiwan. Poster presentation in Feb 06, 2021.

Research Grants/Project

2019 “*Socialization of Aesthetic Education in Museum* (2019B104)”. The Natural Science Foundation of Jilin Province, China. Ranked # 3

2020 Specialized Subsidy Scheme for Macao Higher Education Institutions in the Area of Research in Humanities and Social Sciences (and Specialized Subsidy Scheme for Prevention and Response to Major Infectious Diseases) No. HSS-MUST-2020-9. Ranked # 2

2021 “Zhuhai Philosophy and Social Science Planning 2021-2022 Topic” No. 2021YBC184 Ranked # 1

Academic and Professional Membership

Peer Reviewer:

Reviewer for *Urban Forestry & Urban Greening*, (SCI/SSCI, ISSN: 1618-8667);

SAGE Open, (SSCI, ISSN: 2158-2440);

Soft Computing (SCI, ISSN: 1432-7643)

...(Update: <https://www.webofscience.com/wos/author/rid/Y-1706-2019>)

PC Member:

Program committee member of the 1st International Workshop on Machine Learning for Trust, Security and Privacy in Computing and Communications (MLTrustCom 2020).

Program committee member of 2020 IEEE International Conference on Bioinformatics and Biomedicine (BIBM 2020).

Technical program committee member of the 26th International Conference on Database Systems for Advanced Applications (DASFAA 2021) (CCF Class B) Workshop - Machine Learning and Deep Learning for Data Security Applications (MLDLDSA 2021)

Workshop organizers of the Special Session on Multi-Goal Decision Making Techniques and its Applications (MGDMTA 2021).

PC member of the 1st International Workshop on Deep Learning for the Web of Things (DLWoT 2021).