

# **Zhu, Bo-wei**



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Faculty : Faculty of Humanities and Arts  
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## **Teaching and Research Areas :**

POE 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:**

- Fan, Z. M., **Zhu, B. W.\***, Xiong, L.\*, Huang, S. W., Tzeng, G. H. (2023). Urban design strategies fostering creative workers' sense of identity in creative and cultural districts in East Asia: An integrated knowledge-driven approach. *Cities*, 137 (2023) 104269. (corresponding author) [SSCI, Q1, 2/43 in URBAN STUDIES]
- Zhao, L. C., Zheng, Y. Y., Lin, J. Y., Shen, K., Li, R. T., Xiong, L.\*, **Zhu, B. W.\***, & Tzeng, G. H. (2023). An Ex-ante Evaluation Model of Urban Renewal Projects for the Sustainability Potential towards TOD and AUD based on a FDEMATEL-GIS-FI approach. *International Journal of Information Technology & Decision Making*. (corresponding author)[SCI, IF: 4.9]
- Zhu, Y., **Zhu, B. W.**, Te, Y.\*, Badarulzaman, N. B., & Xiong, L. (2023). Exploring the Key Factors of Old Neighborhood Environment Affecting Physical and Mental Health of the Elderly in Skipped-Generation Household Using an RST-DEMATEL Model. *Systems*, 11(2), 104.[SSCI]
- Lin, J. Y., Zhao, L. C., Zheng, Y. Y., Du, Q. K., Xiong, L.\*, **Zhu, B. W.\***, & Tzeng, G. H. (2023). Using a Hybrid Multiattribute Decision-Making Model for Evaluating the Sustainable Development Potential of Characteristic Towns and Exploring

- Development Planning Strategies. *Journal of Environmental and Public Health*, 2023.(corresponding author)
- 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]
- 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]
- 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. (corresponding author) [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]
- 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]
- 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]
- 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, Q1, 13/475 in MATHEMATICS]
- 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]
- 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]

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]

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]

**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]

#### *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. 24<sup>th</sup> 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. 2<sup>nd</sup> 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. 4<sup>nd</sup> 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. 4<sup>nd</sup> 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 "Continuous improvement strategies of urban neighborhood open spaces in old residential communities from the perspective of healthy aging in the post-epidemic era :

Examples taken from the community parks in Xiangzhou district of Zhuhai city". Zhuhai Philosophy and Social Science Planning 2021-2022 Topic (No. 2021YBC184), PI.

2022 "Developing systematic strategies for improving the quality of public open spaces based on a novel hybrid multiple attribute decision making model". The Faculty Research Grant (FRG) of Macau university of Science and Technology (No. FRG-22-002-FA), PI.

2023 "Developing environmental improvement strategies of smart tourist attractions based on the perceived needs of tourists in the new era". Youth Project of Guangdong Philosophy and Social Science Foundation (GD22YYS11), Ranked # 3.

### ***Academic and Professional Membership***

#### ***Peer Reviewer:***

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

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

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

#### ***PC Member:***

Program committee member of the 2020 IEEE 19th International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom): Guangzhou, CN.

Program committee member of 2021 IEEE 20th International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom): Shenyang, CN