

陳俊銘



工作職稱： 助理教授、碩士生導師
學院/部門： 人文藝術學院電影學院
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研究領域

人工智能在數字媒體、設計學、建築學中的應用及改進；圖像生成；設計自動化；適老化

個人主頁：

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個人簡介

陳俊銘具有多學科專業背景並從事跨學科研究。擁有建築學、設計學、計算機專業背景，以及數字媒體博士學位。自2017年至今，他任職於澳門科技大學人文藝術學院，專注於人工智能在數字媒體、設計學及建築領域的應用及改進。他擅長運用參數化和人工智能技術進行設計實踐，已培養學生完成多個建成項目，並榮獲國際及國家級設計獎項10餘項，如A Design Award和華燦獎等。他還是工信部認證的高級數據分析師。同時，他的論文發表於SCI中科院一區TOP、A&HCI、SSCI、CCF核心期刊，累計發表24篇，其中7篇為第一作者，7篇為通訊作者。他擔任20餘本SCI、SSCI期刊審稿人，其中13本為JCR Q1期刊，並擔任部分SCI期刊的編委會成員及客座編輯。

學歷

2021 - 2024	澳門科技大學 / 數字媒體 / 博士學位
2019 - 2021	澳門科技大學 / 應用數學與數據科學 / 碩士學位
2015 - 2017	澳門科技大學 / 文化遺產保護 / 碩士學位
2011 - 2015	華南理工大學廣州學院 / 建築設計 / 學士學位

工作經驗

2025 - 至今	澳門科技大學 / 人文藝術學院 / 助理教授、碩士生導師
2017 - 2024	澳門科技大學 / 人文藝術學院 / 實驗室實驗員

學術成果

*為通訊作者

- Peng, Y., Hu, Q., Xu, J., U, K., & **Chen, J.*** (2025). A Novel Deep Learning Zero-Watermark Method for Interior Design Protection Based on Image Fusion. *Mathematics*, 13(6), 947. (SCI JCR Q1)
[Doi:10.3390/math13060947](https://doi.org/10.3390/math13060947)
- Lei Liang, **Chen, J.***, Jiawei Shi*, Kai Zhang, Xiaodong Zheng. (2025) Noise-Robust Image Edge Detection Based on Multi-Scale Automatic

Anisotropic Morphological Gaussian Kernels. *PLOS One*, (SCI JCR Q1)
[Doi:10.1371/journal.pone.0319852](https://doi.org/10.1371/journal.pone.0319852)

3. Zhou, Y., Liu, Y., Shao, Y., & **Chen, J.*** (2025). Fine-tuning diffusion model to generate new kite designs for the revitalization and innovation of intangible cultural heritage. *Scientific Reports*, 15(1), 7519. (SCI JCR Q1)
[Doi:10.1038/s41598-025-92225-z](https://doi.org/10.1038/s41598-025-92225-z)
4. Liu, X., Wang, F., Zeng, H., Chen, Y., Zheng, L., & **Chen, J.*** (2025). PRNet: A Priori Embedded Network for Real-World Blind Micro-Expression Recognition. *Mathematics*, 13(5), 749. (SCI JCR Q1)
[Doi:10.3390/math13050749](https://doi.org/10.3390/math13050749)
5. Zou, Z., Zeng, H., Zheng, X., & **Chen, J.*** (2025). Research on Multi-Center Path Optimization for Emergency Events Based on an Improved Particle Swarm Optimization Algorithm. *Mathematics*, 13(4), 654. (SCI JCR Q1)
[Doi:10.3390/math13040654](https://doi.org/10.3390/math13040654)
6. Lai, Y., **Chen, J.**, Chen, Y., Zeng, H., & Cai, J. (2025). Feedback Tracking Constraint Relaxation Algorithm for Constrained Multi-Objective Optimization. *Mathematics*, 13(4), 629. (SCI JCR Q1)
[Doi:10.3390/math13040629](https://doi.org/10.3390/math13040629)
7. Wang, T., Chen, Y., Wei, Z., **Chen, J.**, Fang, J., Dong, Z., & Zheng, L. (2025). Images of Architectural Landmarks Integrated into Spatial Vision Based on Urban Image Theory: A Case Study on the Wuhan Design Biennale Exhibition Space. *Buildings*, 15(4), 530. (SCI JCR Q2)
[Doi:10.3390/buildings15040530](https://doi.org/10.3390/buildings15040530)
8. Yang, S., Chen, Y., Zheng, L., **Chen, J.**, Huang, Y., Huang, Y., ... & Hu, Y. (2025). Investigating and Identifying the Surface Damage of Traditional Ancient Town Residence Roofs in Western Zhejiang Based on YOLOv8 Technology. *Coatings*, 15(2), 205. (SCI JCR Q2)
[Doi:10.3390/coatings15020205](https://doi.org/10.3390/coatings15020205)
9. Zhang, K., Zhao, S., Zeng, H., & **Chen, J.*** (2025). Two-Stage Archive Evolutionary Algorithm for Constrained Multi-Objective Optimization. *Mathematics*, 13(3), 470. (SCI JCR Q1) [Doi:10.3390/math13030470](https://doi.org/10.3390/math13030470)
10. Tang, Q., Zheng, L., Chen, Y., **Chen, J.**, & Yang, S. (2025). Innovative Design Method for Lingnan Region Veranda Architectural Heritage (Qi-Lou) Facades Based on Computer Vision. *Buildings*, 15(3), 368. (SCI JCR Q2) [Doi:10.3390/buildings15030368](https://doi.org/10.3390/buildings15030368)
11. Liu, Z., Zeng, H., & **Chen, J.*** (2025). Faith' s Frontiers: An Exploration of Religious Syncretism and Cultural Adaptation in the “Guanyin/Madonna and Child ” Painting. *Religions*, 16(1), 36. (A&HCI)
[Doi:10.3390/rel16010036](https://doi.org/10.3390/rel16010036)
12. Cheng, M., Qiao, W., **Chen, J.**, & Li, X. (2025). Learning to Ask About Text Content in an Image with Fine-Grained Features. In *International Conference on Web Information Systems Engineering* (pp. 208-223). Springer, Singapore. (CCF C) [Doi:10.1007/978-981-96-0567-5_16](https://doi.org/10.1007/978-981-96-0567-5_16)
13. Tang, Q., Zheng, L., Chen, Y., **Chen, J.**, & Yang, S. (2025). Innovative Design Method for Lingnan Region Veranda Architectural Heritage (Qi-Lou) Facades Based on Computer Vision. *Buildings*, 15(3), 368. (SCI JCR Q2) [Doi:10.3390/buildings15030368](https://doi.org/10.3390/buildings15030368)

14. Zeng, H., Zhu, J., Lin, H., & **Chen, J.** (2024). Older Users Acceptance of Smart Products: An Extension of the Technology Acceptance Model. *IEEE Access*. (SCI JCR Q2) [Doi:10.1109/ACCESS.2024.3383925](https://doi.org/10.1109/ACCESS.2024.3383925)
15. Liu, R., Pang, W., **Chen, J.**, Balakrishnan, V. A., & Chin, H. L. (2024). The application of scaffolding instruction and AI-driven diffusion models in children's aesthetic education: A case study on teaching traditional Chinese painting of the twenty-four solar terms in Chinese culture. *Education and Information Technologies*, 1-32. (SSCI JCR Q1) [Doi:10.1007/s10639-024-13135-7](https://doi.org/10.1007/s10639-024-13135-7)
16. **Chen, J.**, Zheng, X., Shao, Z., Ruan, M., Li, H., Zheng, D., & Liang, Y. (2024). Creative interior design matching the indoor structure generated through diffusion model with an improved control network. *Frontiers of Architectural Research*. (A&HCI 中科院一區, JCR Q1, 期刊排名: 1/97) [Doi:10.1016/j.foar.2024.08.003](https://doi.org/10.1016/j.foar.2024.08.003)
17. **Chen, J.**, Zhang, K., Zeng, H., Yan, J., Dai, J., & Dai, Z. (2024). Adaptive Constraint Relaxation-Based Evolutionary Algorithm for Constrained Multi-Objective Optimization. *Mathematics* (2227-7390), 12(19). (SCI JCR Q1) [Doi:10.3390/math12193075](https://doi.org/10.3390/math12193075)
18. Shao, Z., **Chen, J.**, Zeng, H., Hu, W., Xu, Q., & Zhang, Y. (2024). A New Approach to Interior Design: Generating Creative Interior Design Videos of Various Design Styles from Indoor Texture-Free 3D Models. *Buildings*, 14(6), 1528. (SCI JCR Q2) [Doi:10.3390/buildings14061528](https://doi.org/10.3390/buildings14061528)
19. **Chen, J.**, Shao, Z., Zheng, X., Zhang, K., & Yin, J. (2024). Integrating aesthetics and efficiency: AI-driven diffusion models for visually pleasing interior design generation. *Scientific Reports*, 14(1), 3496. (SCI JCR Q1) [Doi:10.1038/s41598-024-53318-3](https://doi.org/10.1038/s41598-024-53318-3)
20. **Chen, J.**, Shao, Z., Cen, C., & Li, J. (2024). HyNet: A novel hybrid deep learning approach for efficient interior design texture retrieval. *Multimedia Tools and Applications*, 83(9), 28125-28145. (SCI JCR Q2, CCF C) [Doi:10.1007/s11042-023-16579-0](https://doi.org/10.1007/s11042-023-16579-0)
21. Cheng, W., Chu, Y., Xia, C., Zhang, B., **Chen, J.**, Jia, M., & Wang, W. (2023). UrbanGenoGAN: pioneering urban spatial planning using the synergistic integration of GAN, GA, and GIS. *Frontiers in Environmental Science*, 11, 1287858. (SCI JCR Q2) [Doi:10.3389/fenvs.2023.1287858](https://doi.org/10.3389/fenvs.2023.1287858)
22. **Chen, J.**, Shao, Z., Zhu, H., Chen, Y., Li, Y., Zeng, Z., ... & Hu, B. (2023). Sustainable interior design: A new approach to intelligent design and automated manufacturing based on Grasshopper. *Computers & Industrial Engineering*, 183, 109509. (SCI 中科院一區 TOP, JCR Q1) [Doi:10.1016/j.cie.2023.109509](https://doi.org/10.1016/j.cie.2023.109509)
23. **Chen, J.**, Wang, D., Shao, Z., Zhang, X., Ruan, M., Li, H., & Li, J. (2023). Using artificial intelligence to generate master-quality architectural designs from text descriptions. *Buildings*, 13(9), 2285. (SCI JCR Q2) [Doi:10.3390/buildings13092285](https://doi.org/10.3390/buildings13092285)
24. **Chen, J.**, Shao, Z., & Hu, B. (2023). Generating interior design from text: A new diffusion model-based method for efficient creative design. *Buildings*, 13(7), 1861. (SCI JCR Q2) [Doi:10.3390/buildings13071861](https://doi.org/10.3390/buildings13071861)

研究項目

1. 2023年 廣東省哲學社會科學規劃項目《粵港澳大灣區藝術介入鄉村振興路徑與對策研究》項目編號：GD23XYS036（參與，在研）

學術機構及社會任職

擔任期刊審稿人

1. International Journal of Applied Earth Observation and Geoinformation, (SCI, 中科院一區)
2. IEEE Access, (SCI, JCR Q2)
3. Advanced engineering informatics, (SCI, 中科院一區)
4. Engineering applications of artificial intelligence, (SCI, JCR Q1)
5. Automation in construction, (SCI, 中科院一區)
6. BMC Psychology, (SSCI, JCR Q2)
7. Scientific Reports, (SCI, JCR Q1)
8. Neural networks, (SCI, 中科院一區)
9. Education and Information Technologies, (SSCI, JCR Q1)
10. Computers & Industrial Engineering, (SCI, 中科院一區)
11. Imaging Science Journal, (SCI)
12. Applied Sciences, (SCI, JCR Q1)
13. Buildings, (SCI, JCR Q2)
14. Sustainability, (SSCI, JCR Q2)
15. Applied Soft Computing, (SCI, 中科院一區)
16. PloS one, (SCI, JCR Q1)
17. Cluster Computing, (SCI, JCR Q1)
18. Ain Shams Engineering Journal, (SCI, JCR Q1)
19. Visual Computer (SCI, JCR Q2)
20. Land (SSCI JCR Q2)
21. Archives of Computational Methods in Engineering, (SCI, JCR Q1)
22. Sensors (SCI, JCR Q2)

擔任期刊編輯

Buildings 客座編輯 (SCI, JCR Q2)

發明專利

1. 一種建築設計節能通風結構 專利號：ZL 2021 1 1674196.9 (已獲授權)
2. 建構物生成方法、裝置、電腦設備和存儲介質 申請號：202210775876.8（實質審查）

專業資格認證及獎項

- | | | | | |
|------|----|----------------|----|---------------------------------|
| 2024 | 市級 | 中国国际空间设计大赛 | 銀獎 | “荟阅渡·书店” |
| 2023 | 國際 | A Design Award | 銀獎 | Cross-Multifunctional Bookstore |

2023	國際	A Design Award	銀獎	Parametric generation
2023	國際	A Design Award	優勝獎	Generate images from lines
2023	國際	A Design Award	優勝獎	Technology Inheritance
2023	國家級	两岸新锐设计竞赛.华灿奖	國賽優秀獎	智設智渲-設計師與人工智能協作的室內設計及效果圖生成
2023	國家級	两岸新锐设计竞赛.华灿奖	國賽優秀獎	拾樂園-兒童奔跑跳躍的室內蹦床公園
2023	國家級	两岸新锐设计竞赛.华灿奖	國賽優秀獎	參數化造鎮-以Grasshopper技術傳承川東文化與創新
2022	行業級	安踏.全球运动装备创新设计大赛	銅獎（獎金5萬）	作品名稱“流星系列 智能體操訓練服與運動潮服設計”
2021	市級	中国国际空间设计大赛	銅獎	“书笙”新华书店设计