陈俊铭

工作职称 ： 助理教授、硕士生导师

学院/部门 ： 人文艺术学院电影学院

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研究领域

人工智能在数字媒体、设计学、建筑学中的应用及改进；图像生成；设计自动化；适老化

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个人简介

陈俊铭具有多学科专业背景并从事**跨学科研究**。拥有**建筑学、设计学、计算机专业背景**，以及**数字媒体博士学位**。自2017年至今，他任职于澳门科技大学人文艺术学院，专注于人工智能在数字媒体、设计学及建筑领域的应用及改进。他擅长运用参数化和人工智能技术进行设计实践，已培养学生完成多个建成项目，并荣获**国际及国家级设计奖项10余项**，如A Design Award和华灿奖等。他还是工信部认证的高级数据分析师。同时，他的论文发表于**SCI中科院一区TOP、A&HCI、SSCI、CCF核心期刊**，累计发表**24**篇，其中**7篇为第一作者，7篇为通讯作者**。他担任**20余本SCI、SSCI期刊审稿人**，其中**14本为JCR Q1期刊**，并担任部分**SCI**期刊的编委会成员及客座编辑。

学历

2021 – 2024	澳门科技大学 / 数字媒体 / 博士学位
2019 – 2021	澳门科技大学 / 应用数学与数据科学 / 硕士学位
2015 – 2017	澳门科技大学 / 文化遗产保护 / 硕士学位
2011 – 2015	华南理工大学广州学院 / 建筑设计 / 学士学位

工作经验

2025 – 至今	澳门科技大学 / 人文艺术学院 /助理教授、硕士生导师
2017 – 2024	澳门科技大学 / 人文艺术学院 /实验室实验员

学术成果

*为通讯作者

1. 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

2. 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 中科院一区，JCR Q1，期刊排名：1/97**）Doi: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

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

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

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

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

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 中科院一区 TOP，JCR Q1**）Doi: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

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

研究项目

1. 2023年 广东省哲学社会科学规划项目《粤港澳大湾区艺术介入乡村振兴路径与对策研究》 项目编号：GD23XYS036（参与，在研）

学术机构及社会任职

担任期刊审稿人

1. International Journal of Applied Earth Observation and Geoinformation,(SCI,中科院一区)

2. IEEE Access, (SCI, JCR Q2)

3. Advanced engineering informatics,(SCI, 中科院一区)

4. Engineering applications of artificial intelligence, (SCI, JCR Q1)

5. Automation in construction, (SCI, 中科院一区)

6. BMC Psychology, (SSCI, JCR Q2)

7. Scientific Reports, (SCI, JCR Q1)

8. Neural networks, (SCI, 中科院一区)

9. Education and Information Technologies, (SSCI, JCR Q1)

10. Computers & Industrial Engineering, (SCI, 中科院一区)

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, 中科院一区)

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)

担任期刊编辑

Buildings 客座编辑 (SCI, JCR Q2)

发明专利

1. 一种建筑设计节能通风结构 专利号：ZL 2021 1 1674196.9 (已获授权)

2. 建构物生成方法、装置、计算机设备和存储介质 申请号：202210775876.8 （实质审查）

专业资格认证及奖项

2024	市级	中国国际空间设计大赛	银奖	"荟阅渡·书店"
2023	国际	A Design Award	银奖	Cross-Multifunctional Bookstore

2023	国际	A Design Award	银奖	Parametric generation
2023	国际	A Design Award	优胜奖	Generate images from lines
2023	国际	A Design Award	优胜奖	Technology Inheritance
2023	国家级	两岸新锐设计竞赛.华灿奖	国赛优秀奖	智设智渲-设计师与人工智能协作的室内设计及效果图生成
2023	国家级	两岸新锐设计竞赛.华灿奖	国赛优秀奖	拾乐园-儿童奔跑跳跃的室内蹦床公园
2023	国家级	两岸新锐设计竞赛.华灿奖	国赛优秀奖	参数化造镇-以Grasshopper技术传承川东文化与创新
2022	行业级	安踏.全球运动装备创新设计大赛	铜奖（奖金5万）	作品名称"流星系列 智能体操训练服与运动潮服设计"
2021	市级	中国国际空间设计大赛	铜奖	"书笙"新华书店设计