

Yumo Zhang



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

Digital image processing, digital media, game design, multimedia technology, AI-generated content, big data analytics.

Academic Qualification

2019 - 2022	Doctor of Science in Computer Technology and Applications, Macao University of Science and Technology
2017 - 2019	Master of Science in Computer and Information Systems, Macao University of Science and Technology
2013 - 2017	Bachelor of Science in Electronic and Information Technology, Macao University of Science and Technology

Working Experience

2023-2024	University of Science and Technology of Macau / Faculty of Computer Science and Engineering / Postdoctoral Research Fellow
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Academic Publication

Yumo Zhang, Zhanchuan Cai, and Gangqiang Xiong, "A New Image Compression Algorithm Based on Non-Uniform Partition and U-System," in *IEEE Transactions on Multimedia*, vol. 23, pp. 1069-1082, 2021, doi: 10.1109/TMM.2020.2992940. **(2021IF:8.182)**

Yumo Zhang, Zhanchuan Cai, and Ben Ye, "An Image Importance Partition-Based Compression Method for COVID-19 Computed Tomography Scan," in *IEEE Transactions on Industrial Informatics*, vol. 18, no. 7, pp. 4596-4607, July 2022, doi: 10.1109/TII.2021.3117258. **(2022IF:12.3)**

Yumo Zhang and Zhanchuan Cai, "DNP-AUT: Image Compression Using Double-Layer Non-Uniform Partition and Adaptive U Transform," in *IEEE Transactions on Multimedia*, vol. 27, pp. 249-262, 2025, doi: 10.1109/TMM.2024.3521853. **(2024IF:9.7)**

Awards

Macao Scientific and Technological R&D Award for Postgraduates, Science and Technology Development Fund of Macau SAR, 2022.

First Prize at 18th "Huawei Cup" China Post-graduate Mathematical Contest in Modeling (MCM), China Academic Degrees and Graduate Education Development Center and China Graduate Mathematical Contest in Modeling Committee, 2021.

First Prize at 17th "Huawei Cup" China Post-graduate Mathematical Contest in Modeling (MCM), China Academic Degrees and Graduate Education Development Center and China Graduate Mathematical Contest in Modeling Committee, 2020.

Second Prize at 16th "Huawei Cup" China Post-graduate Mathematical Contest in Modeling (MCM), China Academic Degrees and Graduate Education Development Center and China Graduate Mathematical Contest in Modeling Committee, 2019.