Dongmei Mo

The Hong Kong Polytechnic University, Laboratory for Artificial Intelligence in Design (AiDLab)

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Research Interests

Machine learning & computer vision, intelligent fashion aesthetics cognition and personalized recommendation.

Education

Ph.D., School of Fashion and Textiles, The Hong Kong Polytechnic University, HKSAR, China

- Research direction: AI in fashion and textiles
- Thesis: Development of a computer vision model for quality inspection in textile industry, Supervisor: Prof. Calvin Wong.

M.A., College of Computer Science and Software Engineering, Shenzhen University, Guangdong, China

- Research direction: Image feature extraction and representation
- Thesis: Image feature extraction based on jointly sparse and generalized orthogonal regression, Supervisor: Prof. Zhihui Lai.

Submitted Manuscripts

Super stylist: personalized fashion recommendation via deep personality learning, ICMR 2023 (submitted).
Scatter matrix decomposition for jointly sparse learning, Pattern Recognition (Major revision).

Selected Publications

[1] D. Mo, X. Zou, and W. Wong. "*Towards private stylists via personalized compatibility learning*", Expert Systems with Applications, 2023: 119632.

[2] D. Mo, X. Zou, and W. Wong. "*Neural stylist: Towards online styling service*", Expert Systems with Applications, 2022: 117333.

[3] D. Mo, W. Wong, Z. Lai. "*Weighted double low-rank decomposition with application to fabric defect detection*", IEEE Transactions on Automation Science and Engineering 2020, (18.3): 1170-1190.

[4] D. Mo, X. Liu, Y. Ge and W. Wong. "*Concentrated hashing with neighborhood embedding for image retrieval and classification*", International Journal of Machine Learning and Cybernetics, 2022, 13(6): 1571-1587.

[5] D. Mo, Z. Lai, W. Wong. "*Jointly sparse locality regression for feature extraction*", IEEE Transactions on Multimedia, 2019, 22(11): 2873-2888.

[6] D. Mo, and Z. Lai. "*Robust jointly sparse regression with generalized orthogonal learning for image feature selection*", Pattern Recognition, 2019, 93: 164-178.

[7] D. Mo, Z. Lai, and W. Wong. "*Locally joint sparse marginal embedding for feature extraction*", IEEE Transactions on Multimedia, 2019, 21(12): 3038-3052.

[8] Z. Lai, D. Mo, et al.. "*Robust discriminant regression for feature extraction*", IEEE transactions on Cybernetics, 2017, 48(8): 2472-2484.

Project Experience

Mar. 2022-Present, Postdoctoral Researcher, *RP3-1 AI-based Fashion Design Assistant*, the InnoHK Research Clusters.

Oct. 2022-Present, Postdoctoral Researcher, *RP3-2 Intelligent Fashion Aesthetic Evaluation System*, the InnoHK Research Clusters.

Professional Services and Experience

Reviewer TNNLS, TMM, TCSVT, Pattern Recognition , Expert Systems with Applications, Neurocomputing.
26 Oct. 2022, **Oral Presentation**, "*Consumer experience enhancement: developing intelligent fashion evaluation and recommendation service*", INFORMS 2021 Annual Meeting.

Main Courses

Theory of Fashion-from Aesthetics to Trend
Advanced Topics in Data Analytics
Advanced Topics in Optimization

Honors and Awards

Outstanding Postgraduate, Jun. 2018
National Scholarship, Oct. 2017

Teaching Assistant

2019	*ITC4085E-Omni-Channel Fashion Marketing and Retailing*, The Hong Kong Polytechnic University
Spring 2019	*ITC2019M-Management Principles in the Fashion Business*, The Hong Kong Polytechnic University
Autumn 2020	*ITC4068M-Merchandising Management*, The Hong Kong Polytechnic University