Wenzhe Tang

Contact Information

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Research Interests

Ergonomics, human-computer interaction, mental workload, interaction efficiency, emotional evaluation.

Education

Southeast University, Nanjing, Jiangsu, China — Sep 2018 - Sep 2024
Ph.D. in Mechanical Engineering

Southeast University, Nanjing, Jiangsu, China — Sep 2015 - Jun 2018
Master of Engineering in Industrial Design

Monash University, Melbourne, VIC, Australia — Sep 2015 - Jun 2016
Master in Industrial Design

Nanjing Institute of Technology, Nanjing, Jiangsu, China — Sep 2010 - Jun 2014
Bachelor of Engineering in Mechanical Design

Appointments

Lecturer — Dec 2024-Present
Nanjing Forestry University, College of Furnishings and Industrial Design, Nanjing, Jiangsu

Honors and Awards

British Ecology Design Award, Bronze Award	2022
Britain International Creative Competition, Bronze Award	2021
A' Design Award, Silver Award	2021
Spark Design Awards, Silver Award	2019

Publications

Tang W, Chen S, Shao J, et al. Emerging Themes and Future Directions in Neurodesign and Human-Computer Interaction: A Systematic Review [J]. *International Journal of Human-Computer Interaction*, 2024, 1-22.

Shao J, Tang W, Ji J, et al. Interference inhibition of multimodal information in digital interfaces and its rule of cognitive processing[J]. *Human Factors and Ergonomics in Manufacturing & Service Industries*, 2024, 34: 618-634.

Wang L, Tang W, Montagu E, et al. Cognitive evaluation based on regression and eye-tracking for layout on human-computer multi-interface[J]. *Behaviour & Information Technology*, 2024, 1-24.

Tong M, Chen S, Tang W, et al. Selecting the appropriate speed for rotational elements in human-machine interfaces: A quantitative study[J]. *Journal of Eye Movement Research*, 2024, 17(1): 10.16910.

Shao J, Wu J, Tang W, et al. How dynamic information layout in GIS interface affects users' search performance: integrating visual motion cognition into map information design[J]. *Behaviour & Information Technology*, 2023, 42(11): 1686-1703.

Tang W, Chen S, Xue C, et al. Influence of nuclear power plant interface complexity on user decision-making: An ERP study[J]. *Ergonomics*, 2023, 66(8): 1099-1117.

Tang W, Chen S, Lin Y, et al. Image Entropy-Based Interface Evaluation Method for Nuclear Power Plants[J]. *Entropy*, 2023, 25(12): 1636.

Li L, Tang W, Yang H, et al. Classification of User Emotional Experiences on B2C Websites Utilizing Infrared Thermal Imaging[J]. *Sensors*, 2023, 23(18): 7991.

Gu Q, Tang W, Xue C. The Effect of Time Lapse on the Halo Effect in the Subjective Evaluation of Digital Interfaces[C]//*International Conference on Human-Computer Interaction*. Cham: Springer Nature Switzerland, 2023: 171-183.

Zhao Z, Tang W, Xue C Q. Effects of Users' Familiarity in Icons on the Cognitive Performance of Icon Identification[J]. *Intelligent Human Systems Integration (IHSI 2023)*: Integrating People and Intelligent Systems, 2023, 69(69).

Shao J, Tang W, Yang B, et al. Visual Hierarchy Design of Map Site Information in Thematic Meteorological Interface[C]//*Journal of Physics: Conference Series*. IOP Publishing, 2022, 2292(1): 012006.

Wang F, Tang W, Hu R, et al. Ergonomic Evaluation Index System for Fighter Planes Cockpit Touch Screens[J]. *Intelligent Human Systems Integration (IHSI 2022)*: Integrating People and Intelligent Systems, 2022, 22(22).

Shao J, Tang W, Yang B, et al. Design of point pop-ups with visual representation based on weather map interface[M]//*Intelligent human systems integration (IHSI 2022)*. USA: AHFE International, 2022.

Xu D, Tang W, Xue C. RCSO Model for Human-Computer Interactive Auditory Interface[C]//Advances in Ergonomics in Design: *Proceedings of the AHFE 2021 Virtual Conference on Ergonomics in Design*, 2021: 589-596.

Shi J, Tang W, Li N, et al. User cognitive abilities-human computer interaction tasks model[C]//*Intelligent Human Systems Integration (IHSI 2021)*: Integrating People and Intelligent Systems, 2021: 194-199.

Tang W, Chen S, Xue C, et al. Optimal Range of Information Quantity for Decision Making[C]//*International Conference on Human-Computer Interaction*. Springer, Cham, 2019: 613-623.

Patents

Faucet with Front-positioned Switch, CN207261762U	2018
Sterilization Cutting Board, CN207323389U	2018

Teaching

Instructor, Nanjing Forestry University

- Code 1403102 (Design Fundamentals) — Spring 2025
- Code 1403109 (Special Topics in Intelligent Product Design) — Fall 2025
- Code 1403114 (Artificial Intelligence and Innovative Design) — Fall 2025