

Muhammad Tufail
Research Assistant Professor
School of Design
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Biography

Muhammad Tufail has worked as a postdoctoral research associate in the Department of Design at Ulsan National Institute of Science and Technology (UNIST) Ulsan South Korea. He obtained his master's degree from the Graduate School of Culture Technology at Korea Advanced Institute of Science and Technology (KAIST) Daejeon South Korea, and Ph.D. degree from the Graduate School of Creative Design Engineering at UNIST. His areas of interest include sustainable design, ergonomic design, service design, and product service system design. He also extends his research interests in the fields of digital cultural heritage, exercise, sport and leisure, and heritage tourism development.

Employment

Research Assistant Professor

Research Assistant Professor
School of Design
The Hong Kong Polytechnic University
1 Jul 2024 → present

Postdoctoral Researcher

Ulsan National Institute of Science and Technology
Korea, Republic of
15 Sept 2020 → 15 Jan 2022

Research outputs

A novel blockchain-enabled heart disease prediction mechanism using machine learning

Tufail, M., Hasanonva, H., Baek, U.-J., Park, J.-T. & Kim, M.-S. (Corresponding Author), Jul 2022, In: Computers and Electrical Engineering. 101, 108086.

Interdisciplinary Co-Design Research Practice in the Rehabilitation of Elderly Individuals with Chronic Low Back Pain from a Senior Care Center in South Korea

Tufail, M. (Corresponding Author), Lee, H., Moon, Y., Kim, H. & Kim, K. (Corresponding Author), 1 May 2022, In: Applied Sciences. 12, 9, p. 4687 20 p., 4687.

How do visitors perceive the significance of tangible cultural heritage through a 3D reconstructed immersive visual experience at the Seokguram Grotto, South Korea?

Tufail, M., Park, J., Kim, H., Kim, S., Kim, K. & Lee, J. H., 7 Mar 2022, In: Journal of Heritage Tourism. 17, 4, p. 409-430 22 p.

Effects of standing exercise tasks with a sloped surface intervention on trunk muscle activation and low-back pain intensity in women aged ≥ 70 years

Tufail, M., Lee, H., Moon, Y. G., Kim, H. & Kim, K., 8 Oct 2021, In: International Journal of Human Factors and Ergonomics. 8, 3, p. 245-260 15 p.

The Effect of Lumbar Erector Spinae Muscle Endurance Exercise on Perceived Low-back Pain in Older Adults

Tufail, M., Lee, H., Moon, Y., Kim, H. & Kim, K., 22 Sept 2021, In: Physical Activity Review. 9, 2, p. 82-92 10 p.

Sustainable and ICT-enabled development in developing areas: An e-heritage e-commerce service for handicraft marketing

Tufail, M. & Kim, K. (Corresponding Author), 1 Apr 2018, In: Journal of Physics: Conference Series. 989, p. 1-8 8 p., 989.

Effects of cursor freeze time on the performance of older adult users on mouse-related tasks

Tufail, M. & Kim, K., 1 Jul 2017, In: Applied Ergonomics. 65, p. 175-182 7 p.

Characterizing Natural User Interface with Wearable Smart Watches

Kang, R., Ahn, Y., Marije, M., Tufail, M., Baek, J. & Kim, C., 1 Aug 2016, In: Archives of Design Research. 29, 3, p. 45-61 16 p.

Difficulties in transformable design and its causes

Lee, H., Tufail, M. & Kim, K., May 2016, In: Proceedings of International Design Conference, DESIGN. DS 84, p. 2147-2156 10 p.

Activities

IASDR 2023

Tufail, M. (Chair)
3 Jan 2023

Healthcare (Switzerland) (Journal)

Tufail, M. (Reviewer)
Aug 2022

Archives of Design Research (Journal)

Tufail, M. (Reviewer)
Apr 2022

International Journal of Environmental Research and Public Health (Journal)

Tufail, M. (Reviewer)
Mar 2022

Applied Sciences (Switzerland) (Journal)

Tufail, M. (Reviewer)
25 Nov 2021

Sustainability (Switzerland) (Journal)

Tufail, M. (Reviewer)
13 Sept 2021

International Journal of Human Factors and Ergonomics (Journal)

Tufail, M. (Reviewer)
19 Oct 2020