Callum Altham BSc (Hons), MSc, AFHEA

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🌐 Research Profile - Callum Altham

Employment History

2022 – Present	🔖 **Graduate Teaching Assistant.** Department of Computer Science, Edge Hill University.
2022 – 2022	🔖 **Research Projects Coordinator.** Department of Computer Science, Edge Hill University.
2021 – 2021	🔖 **Research Assistant.** Department of Computer Science, Edge Hill University.

Education

2022 – 2025	🔖 **Ph.D. Computer Science and Informatics, Edge Hill University.** Thesis title: *Early Detection and Diagnosis of Parkinson's Disease Dementia Using Deep Learning*
2021 – 2022	🔖 **MSc Cyber Security, Edge Hill University.** Thesis title: *Improving Adversarial Attacks on Deep Learning Based Medical Systems using Reinforcement Learning.*
2018 – 2021	🔖 **BSc (Hons) Computer Science, Edge Hill University** Thesis title: *Effective Human Facial Emotion Recognition using Deep Learning Techniques.*

Research Publications

Journal Articles

1. H. Zhang, C. Altham, M. Trovati, *et al.*, "Adaptive multiscale superpixel embedding convolutional neural network for land use classification," *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, vol. 15, pp. 7631–7642, 2022. 🔗 DOI: `10.1109/jstars.2022.3203234`.

Conference Proceedings

1. C. ALTHAM, H. ZHANG, M. TROVATI, *et al.*, "Early detection of parkinson's disease dementia using dual-sided multi-scale convolutional neural networks (dsms-cnn)," English, in *Medical Imaging and Computer-Aided Diagnosis*, R. Su, Y. Zhang, H. Liu, and A. F Frang, Eds., ser. Lecture Notes in Electrical Engineering, MICAD2022 ; Conference date: 20-11-2022 Through 21-11-2022, vol. 810, Springer, Dec. 2023, pp. 191–201.