Peter Matthew David Scully

Address

Faculty of ICT, Mahidol University
999 Phutthamonthon Sai 4 Road, Salaya,
Nakhon Pathom 73170,
Thailand

Tel: +66 2 441 0909
Email: peter.scu@mahidol.ac.th

Research Interests

Agricultural Technology, Health Informatics, Manufacturing, Spectroscopy, Cybersecurity.

Intelligent Systems, Edge Computing, Signal Data, Time Series Modeling, Multimodal Models.

Professional Experience

Instructor, Faculty of Information, Communication Technology, Mahidol University, Thailand. 2024-

Research Assistant, Faculty of Medicine, Mahasarakham University, Thailand. 2023-2024

Visiting Professor, Faculty of Informatics, Mahasarakham University, Thailand. 2021-2023

Technology Consultant, Instructor (Non-FTE), Morgan Stanley, India/ London. 2016-2018

Research Assist. (Postdoc), Lecturer, Computer Science, Aberystwyth University, United Kingdom. 2015-2017

Research Assistant (PhD), Airbus Group Innovations, United Kingdom. 2011-2015

Technology Consultant, Self-Employed, United Kingdom. 2010-

ICT / Software Engineer (Various) 1999-2011

Education

Ph.D. (Computer Science), Aberystwyth University, 2016

BSc. (Computer Science), University of Wales, Aberystwyth, 2011

Selected Honors

Best Paper Award, "*Intelligent Safety-Redundant IoT-Edge System for Indoor Gas Leakage Detection*", Ubi-Media 2025, The Thirteenth International Conference on Ubi-Media Computing, Published by Springer in Communications in Computer and Information Science (CCIS) series. January 2025.

Selected Professional Service

2025. Program Committee & Reviewer, MIWAI 2025 - 18th Multi-Disciplinary International Conference on Artificial Intelligence on December 3-5, 2025, Vietnam.

2025. Reviewer for the Journal of Healthcare Informatics Research (I.F. 5.1)

2024. Program Committee, Session Chair & Reviewer, MIWAI 2024 - 17th Multi-Disciplinary International Conference on Artificial Intelligence on November 11-15, 2024, Thailand.

2023. Session Chair, AJCC 2023 - 4th Asia Joint Conference on Computing and Electrical Technologies, Silpakorn University, Thailand on April 26-28, 2023.

2021. Co-organizer & Track Chair, MIWAI 2021 - 14th Multi-Disciplinary International Conference on Artificial Intelligence, July 2021, Thailand.

2018. Organizing Committee Member & Track Runner, PyCon Thailand 2018 - Knowledge Exchange (KX), Bangkok on June 16-17, 2018, Thailand.

2018. Reviewer for the Swarm and Evolutionary Computation Journal. (I.F. 8.5)

2017. Reviewer for the Journal of Classification (I.F. 2.2)

2016. Co-organizer & Track Chair, Simulation of Adaptive Behaviour (SAB 2016) - 14th International Conference, United Kingdom.

2013-2017 Program Committee, Reviewer for Genetic and Evolutionary Computing Conference (GECCO).

2012- Program Committee, International Conference on Artificial Immune Systems (ICARIS).

Selected Research Grants

2025. PI. Science, Research and Innovation Fund (SRIF) : University Fundamental Fund 2026 (750,000 THB) CARBONCOW - Improving the Accuracy and Volume of In vivo Methane Quantification: Pathways towards Carbon Credits via Methane Mitigation in Livestock in Thailand & South-east Asia. (Project Approved) Thailand.

2015. RA. University Research Fund Grant: 4,959 GBP (223,155 THB) 2015, Project Build a LightStage: Genomic-to-Phenotypic Mapping of Plants and Medical Facial Imaging. Awarded by Aberystwyth University, United Kingdom and National Plant Phenomics Center (NPPC), United Kingdom.

2011. Scholarship Industrial CASE grant: 105,084 GBP (4,728,780 THB) 2011-2015, Self-Healing Architectures Against Malware. Awarded by Engineering and Physical Science Research Council (EPSRC) EP/J501785/1 (RCUK), Airbus Group Innovations IW201339. United Kingdom.

2011. Scholarship Access to Masters: 9,768 GBP (439,560 THB) 2011, Collaboration grant with for Intelligent Systems MSc project in Convergence Area Wales. Awarded by Wales-Europe Funding Office (WEFO).

Doctoral Student Supervision

2024- (Co-advisor) Nattachart Tamkittikhun – “Improving the Accuracy of Visual-based Indoor Localization with Magnetic Field Fingerprint Data”

Publication Statistics

Journal Articles: 3
Conference Papers: 3
Citations: Google Scholar: 67 with h-index of 4
Scopus: 23 (excluding self-citations) with h-index of 2

Selected Publications

2025 Intelligent Safety-Redundant IoT-Edge System for Indoor Gas Leakage Detection V Kachanun, K Mueangthongkham, P Pantaraksakul, J Moolkaew, Ubi-Media Computing 2025, 13th Int. Conference, CCIS, Springer 13 (Bangkok). pp 122–136. DOI: https://doi.org/10.1007/978-981-96-6291-3_10

2024. Final Report: Research Project Modeling the Integration of Long-Term Care and Mental Health of the Elderly during the COVID-19 Pandemic years in Rural Areas of Thailand. R Kitphati, C Nithiketkul, C Krathet, T Wongsaroj, S Norasarn, Bureau of Academic Affairs, Department of General Secretary, Ministry of Public Health, Thailand. (BRIA 66-002).

2023 Jareanpon, C., Khummanee, S., Sriputta, P., & Scully, P. (2023). Developing an Intelligent Farm System to Automate Real-time Detection of Fungal Diseases in Mushrooms. In Current Applied Science and Technology (p. e0255708). Vol. 2024 (1). King Mongkut's Institute of Technology Ladkrabang. https://doi.org/10.55003/cast.2023.255708

2023. W Aneksak, R Kijphati, J Krates, P Scully, S Amornmahaphun, L Pholputta, ... (2023) Database System Development of Mental Health Care for Elderly in Situation with COVID-19. International Journal of Tropical Disease & Health 44 (12), 43-3.

2016. Scully, P. "CARDINAL-Vanilla: Immune System Inspired Prioritisation and Distribution of Security Information for Industrial Networks." PhD Thesis. British Library. ISNI: 0000 0004 5914 8560, 2016.

2014. Song, J.; Zhu, Z.; Scully, P. & Price, C. "Modified Mutual Information-based Feature Selection for Intrusion Detection Systems in Decision Tree Learning." Journal of Computers. Volume 9, Number 7.:1542–1546, ISSN 1796-203X, 2014.

2013. Scully, P.; Song, J.; Pagna Disso, J. & Neal, M. "CARDINAL-E: AIS Extensions to CARDINAL for Decentralised Self-Organisation for Network Security." Advances in Artificial Life: ECAL, in proceedings, MIT Press, 1235–1236, DOI:10.7551/978-0-262-31709-2-ch192, 2013.

2013. Song, J.; Zhu, Z.; Scully, P. & Price, C. "Selecting Features for Anomaly Intrusion Detection: A Novel Method using Fuzzy C Means and Decision Tree Classification." Cyberspace Safety and Security, in proceedings, Springer, 299–307, ISBN 978-3-319-03584-0, 2013.