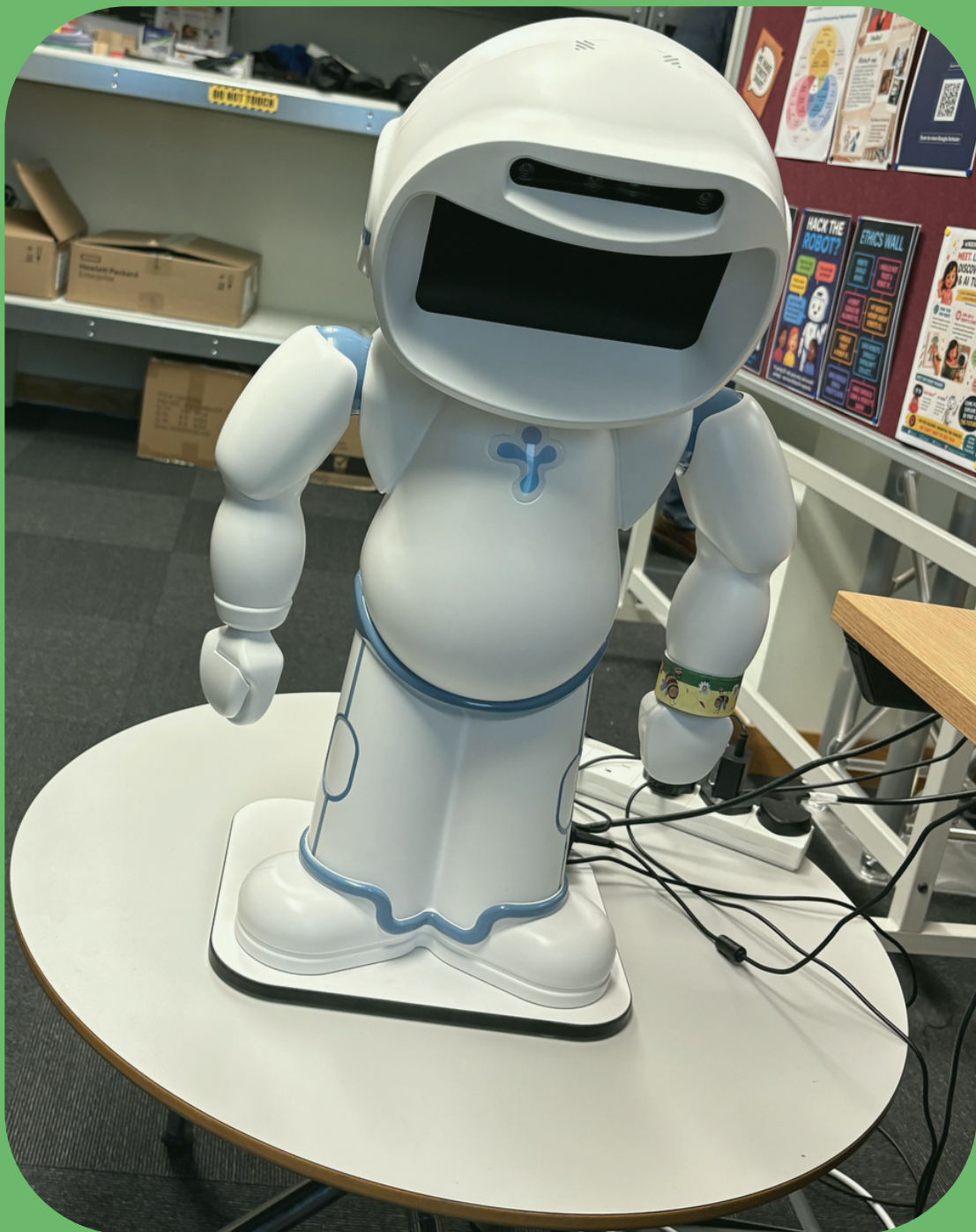


Lancaster Intelligent,
Robotic & Autonomous
Systems Centre



LIRA ANNUAL REPORT 2025



CONTENTS

MESSAGE : DIRECTOR, LIRA

MAJOR PROFESSIONAL HIGHLIGHTS

I

LIRA STRUCTURE

II

PROJECTS & RESEARCH GRANTS

III

**MAJOR PUBLICATIONS BY LIRA
MEMBERS**

IV

**OTHER PROFESSIONAL ACTIVITIES
BY LIRA MEMBERS**



The Lancaster Intelligent Robotic and Autonomous systems (LIRA) Centre was initiated few years ago and supported by the Faculty of Science and Technology (FST) as a multidisciplinary focal point of research and academic excellence, but it soon became a cross-Faculty and University-wide Research Centre with a recognisable footprint.

It now brings together over 70 members from practically all Faculties and over 15 Departments with interests in Intelligent Systems, Robotics and Autonomous Systems and their numerous applications in areas as diverse as biomedical, environmental, security, advanced manufacturing and human behaviour and social sciences.

We are living in times when the role of Intelligent and Autonomous Systems is growing at an accelerate pace. This creates opportunities and 2025 was another year which demonstrated that LIRA members were pro-actively advancing in the development of new paradigms, methodologies, algorithms, implementations and applications.

These culminated in a list of funded projects, hundreds of publications in peer-reviewed outlets (many of which top-tier), supervision of PhD students and early career researchers, developing new collaborations, attracting visiting speakers and researchers, delivering keynote talks at prestigious events, co-organising international conferences and workshops and others.



Professor Plamen
Angelov, Centre
Director, LIRA,
Lancaster University

MAJOR PROFESSIONAL HIGHLIGHTS

- Professional activities undertaken by the LIRA team recorded substantial growth and expansion in 2025.
- Research and publication themes pursued by LIRA members are characterised by high rigour, technological advancement, interdisciplinary integration, and strong relevance to societal and industrial needs.
- A total of 22 new projects were initiated in 2025 by LIRA members in collaboration with national and international partners.
- The total value of project funding for the newly initiated projects in 2025 was around £6 million, indicating a significant scale of research engagement and external support.
- Major funded projects include: Read-IT: Tools for understanding and supporting children's reading development (EPSRC funded, £1 million); Develop tool to diagnose musculoskeletal conditions in the community (EPSRC funded, £1.5 Million); C-Trap for the North West: Visualization of single molecule/biomolecular dynamics for the biosciences (BBSRC funded: £965,922.00).
- In addition, 29 projects initiated prior to 2025 continued to be actively pursued during the year.
- LIRA members successfully completed 35 projects in 2025, reflecting strong research productivity and effective project execution.
- A substantial proportion of these projects received funding support from prestigious research councils, government departments, and leading industry partners.

- Publications continued to be a major strength of LIRA, with nearly 200 articles authored by LIRA members being published in internationally reputed peer-reviewed journals.
- LIRA members made prominent contributions to major international scientific conferences within their domains of expertise, presenting around 80 papers. Many members also served as session chairs/co-chairs and contributed as conference organisers.
- A large number of LIRA members were invited to deliver special lectures at several globally reputed universities and institutions.
- Members of LIRA served on the editorial boards of several leading international journals, including Evolving Systems, IEEE Transactions on Cybernetics, IEEE Transactions on Fuzzy Systems, IEEE Transactions on Artificial Intelligence, Soft Computing, Journal of Automation, Mobile Robotics and Intelligent Systems, Complex & Intelligent Systems, IEEE Transactions on Industrial Cyber-Physical Systems, Biomaterials and Biosystems, IEEE Transactions on Circuits and Systems for Video Technology, IEEE Transactions on Neural Networks and Learning Systems, IEEE Transactions on Industrial Informatics, Pattern Recognition, IEEE Transactions on Biometrics, Behavior, and Identity Science, IEEE Transactions on Image Processing, IEEE Transactions on Systems, Man, and Cybernetics: Systems, Internet of Things, Journal of Intelligent & Fuzzy Systems, Science of Remote Sensing, Environmetrics, and the British Journal of Educational Technology.
- LIRA members actively organised and contributed to impactful outreach and engagement initiatives such as Light Up Lancaster, Good Growth Programme, and the UK-RAS Network Showcase, directly addressing societal priorities.

I. LIRA STRUCTURE

The Lancaster Intelligent, Robotic and Autonomous Systems (LIRA) Research Centre was established in 2018 as the focal point for research excellence and expertise in the field of intelligent, robotic and autonomous systems.

LIRA is a multi-disciplinary collaborative forum by design, bringing together a diverse community of academics, researchers and students from all Faculties of the University and more than a dozen departments.

The structure of LIRA was originally organised around eight thematic groupings (Themes). Two of the themes were subsequently renamed and reoriented to better reflect better the evolving research challenges, interests, and activities of the members. The themes are now as follows:

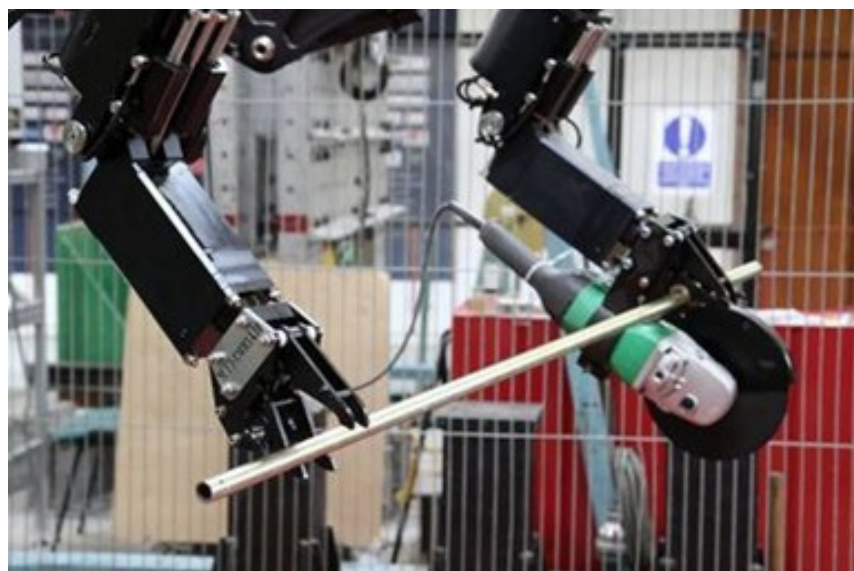
- Advanced Manufacturing
- Biomedical
- Environment and Agriculture
- Fundamentals of Intelligent, Robotic and Autonomous Systems
- Smart Cities and Mobility (originally Intelligent Transport)
- Extreme Environments (originally Nuclear and Decommissioning)
- Security and Defence
- Society and Human Behaviour



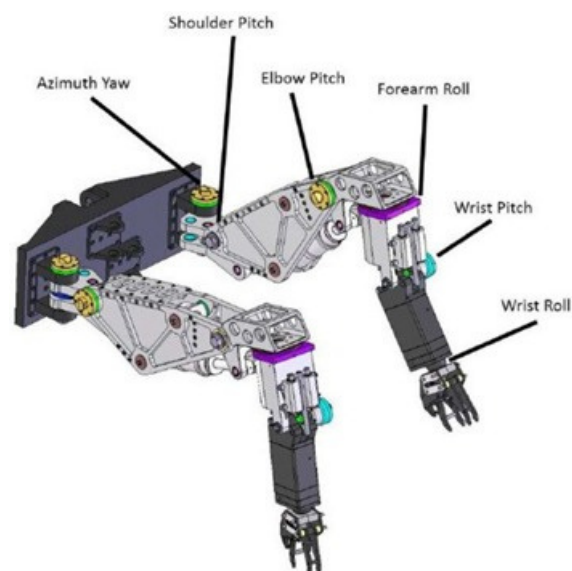


Bandala, Manuel, et al. "Vision-based assisted tele-operation of a dual-arm hydraulically actuated robot for pipe cutting and grasping in nuclear environments." Robotics 8.2 (2019): 42.

Brokk-Hydrolek Robotic Platform. Further images: <https://tinyurl.com/YD3BVSLO>.



Pipe cutting robot for nuclear decommissioning, as part of the National Centre for Nuclear Robotics.



CAD model of the Hydrolek manipulators with joints labelled.

II. LIRA: PROJECTS AND RESEARCH GRANTS: 2025 NEWLY INITIATED, COMPLETED AND ONGOING

In 2025, LIRA members secured and led research projects across newly initiated, ongoing, and completed categories. The following tables provide details of these projects, the associated research grants awarded and the respective Project Directors.

1. NEWLY INITIATED PROJECTS

Project title	Funded by	£	Time period	PI/Col
Read-IT: Tools for understanding and supporting children's reading development	EPSRC	£1M	2025→	P. Angelov (PI)
Undisclosed title - phase 1	DSTL	£18k	2025→	P. Angelov (PI)
Remotely Deployed Sensor Network to Characterise 50 mm Pipework,	NDA/ SATURN PhD	£150k	10/25 → 10/29	S. Monk (PI); D. Cheneler (Col); Dounreay
Automated Beta-emitting Radioisotope Identification and Monitoring in Boreholes	NDA/ SATURN PhD	£150k	10/25 → 10/29	D. Cheneler (PI); S. Monk (Col); Sellafield
Augmented Reality based Teleoperation for Nuclear Decommissioning Robots + (ART4NDR+)	Funded by UK-RAS Network+, EP/Y010523/1	—	07/25 → 07/26	Z. Wang (PI)

Develop tool to diagnose musculoskeletal conditions in the community	EPSRC	£1.5M	2025→	J. Kerns (PI)
Unrestricted Gift	-	-	01/25 → 12/28	J. Liu (PI)
Democratic Federated Learning for Cross-Silo Medical Services via Explainable AI	Royal Embassy of Saudi Arabia Cultural Bureau	£18k	10/25 → 09/28	R. Jiang (PI)
DSI: CRDT-Port: Developing a Crisis and Resilience Digital Twin for UK Port-centric Transport Systems	Engineering and Physical Sciences Research Council	£400k	04/25 → 03/28	Q. Ni (PI)
C-Trap for the North West: Visualization of single moleculebiomolecular dynamics for the biosciences	BBSRC	£950k	08/25 → 07/26	A. Benedetto (Col); N. Robinson (PI)
Mechanisms of gut brain axis involvement in ectotherm thermotolerance: "how the gut brain axis helps animals weather the heat?"	BBSRC	£750k	03/25 → 09/28	A. Benedetto (PI)
NIHR Clinical Lectureship 2024 (Dr Joshua Parker)	NIHR Academy	£560k	09/25 → 08/29	A. Gadoud (PI)
NIHR NW RRDN Strategic Funding Award 2025-2026	National Institute for Health Research	£39k	06/25 → 06/26	A. Gadoud (Col); C. Walshe (PI)
Creative Methodologies for Inclusive Healthcare Design Futures	-	-	01/25 →	N. Jacobs (Col)
DSI: STORi: Reducing network energy consumption: Stepping towards a more sustainable future (Sophie Brimble)	British Telecom	£46k	10/25 → 09/29	C. Kirkbride (PI)
SATURN CDT: Remotely deployed sensor network to characterise 50mm pipework	United Kingdom National Nuclear Laboratory	£77k	10/25 → 09/29	S. Monk (PI)
DSI: Unlocking AI for the Languages in Britain and Ireland	Engineering and Physical Sciences Research Council	£16k	10/25 → 03/26	P. Rayson (PI)

DCQ: Cyber Security of Digital Medical Devices: Establishing UK Capability for a New Design and Development Route	Engineering and Physical Sciences Research Council	£188k & £223k	07/25 → 07/28	E. Wilson (Col); N. Reeves (PI)
---	--	---------------	---------------	---------------------------------

2. COMPLETED PROJECTS

Blended education for STEM teaching	-	-	01/25 → 01/27	E. Rubegni (Col); J. Finney (PI)
Uncertainty quantification when combining forecasts and simulation for long-term problems (Rebekah Fearnhead)	Cabinet Office	£35k	10/25 → 09/28	I. Svetunkov (Col); L. Rhodes-Leader (PI)
DSI: NIHR Pre-doctoral Award (Zoe Glossop)	NIHR	£107k	10/25 → 09/27	A. Ushakova (PI)
XR for Youth Ethics Consortium	Facebook, Inc	£50k	07/25 → 12/26	E. Rubegni (PI)
Using Raman spectroscopy to distinguish between different types of ivory at customs	-	-	09/23 → 03/25	J. Kerns (PI); R. Shepherd (Col); P. Angelov (Col); A. Aghasanli (Researcher); D. Kangin (Researcher)
Roadmapping for Through Life Enabled Lighting Systems	EPSRC IAA	£10k	02/25 → 08/25	D. Cheneler (PI); H. Wilkinson (Col); A. Richardson (Col)
SMART Subsea Connector Technology	EPSRC IAA	£10k	02/25 → 08/25	D. Cheneler (PI); H. Wilkinson (Col); A. Richardson (Col)
ART4NDR: Augmented Reality based Teleoperation for Nuclear Decommissioning Robots	UKAEA	£12k	04/24 → 03/25	A. Gadoud (PI)

IAA: Transforming Data into Decisions: Identifying, Managing, and Leveraging Data for Strategic Growth	-	-	02/25 → 05/25	Z. Wang (PI)
Remote Microthrombus Removal using Vortex Ultrasound Tools	The Royal Society	£10k	12/23 → 11/25	Z. Wang (PI)
Digital Platform for Defect-free Plastic Pipes Welding	-	-	05/23 → 04/25	D. Williams (PI); Z. Wang (Col)
Quantum Brain: Leveraging Quantum Neuromorphic Computing towards Human-Like Intelligence	EPSRC	£5k	07/25 → 08/25	R. Jiang (PI)
MSI: Prevention of osteoporosis through early monitoring of multiple measures of bone health in one device	Engineering and Physical Sciences Research Council	£207k	03/23 → 08/25	J. Kerns (PI)
Using Raman spectroscopy to identify ivory of unknown origin	-	-	01/23 → 03/25	R. Shepherd (PI); A. Taylor (Col); A. Gartland (Col); A. Lister (Col); J. Kerns (Col)
DSI: SustainAIRA6G: Energy-Efficient Sustainable AI-driven Resource Allocation for 6G-empowered Edge-Fog-Cloud Continuum	Engineering and Physical Sciences Research Council	£134k	07/24 → 07/25	Q. Ni (PI); W. Yu (Col)
DSI: Western O-RAN Dense Mobile Challenge Department for Science, Innovation and Technology.	-	-	10/23 → 03/25	Q. Ni (PI); W. Yu (Col)
DSI: Automated Translation and Transcription Capability	DSTL	£91k	11/24 → 10/25	A. Montazeri (PI)

Control and Navigation of Cooperative Unmanned Aerial Systems for Characterisation of Environmental Processes	-	-	02/22 → 08/25	A. Montazeri (PI); M. James (Col)
Fault-Tolerant Visual Servoing Control of a Hydraulically Actuated Manipulator	-	-	10/21 → 07/25	A. Montazeri (PI)
Investigating neurogenetic determinants of organismal death processes in <i>C. elegans</i> 8-week Genetic Society internship	Majka Ciepielewska	£3k	06/25 → 08/25	A. Benedetto (PI)
Development of a Compact Hydro Energy Device for Agricultural and Horticultural Sectors	Innovate UK	£105k	10/23 → 03/25	S. Campobasso (PI)
Deathbed Etiquette - Research Palliative and End of Life Care	NHS England North West: Y62	£2k	03/23 → 03/25	A. Gadoud (PI)
Supporting 'Good' Adoption of Generative AI	-	-	01/25 → 03/25	N. Jacobs (PI)
Speculative Woolgathering: Anticipatory Evaluation of Digital Good	ESRC	£23k	10/24 → 07/25	N. Jacobs (PI)
Control and Navigation of Cooperative Unmanned Aerial Systems for Characterisation of Environmental Processes	-	-	02/22 → 08/25	A. Montazeri (PI); M. James (Col)
ECR and MCR Cohort Grant Writing Support Programme 2024 – 2025	-	-	10/24 → 07/25	R. Liu (PI)
Sustainability, Design-Thinking, and Digitalization – the Trinity	-	-	08/23 → 09/25	R. Liu (PI)

Robotics and Artificial Intelligence Collaboration Programme: Soft robotic highly active cell and pipe explorer for the characterisation of alpha, beta, gamma and neutron contamination	-	-	10/24 → 03/25	S. Monk (PI)
Secondment to The Alan Turing Institute	-	-	01/24 → 12/25	K. Navaie (PI)
Developing and refining a virtual reality intervention that will help to manage pain for people living with advanced cancer	National Institute for Health Research	£32k	09/24 → 11/25	A. Nwosu (PI)
DSI: (NICE) Northern Intensive Computing Environment	Engineering and Physical Sciences Research Council	£10k	08/24 → 07/25	P. Rayson (PI)
DSI: A Small Welsh Language Model Pilot for Sentiment Analysis Testing	Welsh Government	£5k	07/24 → 02/25	Mo El-Haj (PI) P. Rayson (Col)
Dissertation in Place	-	-	09/23 → 06/25	R. Newton (PI); J. Rindt (Col)
IAA: IN-PLACE: Connecting Design and Policy for meeting Net-ZERO targets	-	-	09/23 → 03/25	R. Newton (PI); J. Rindt (Col)
DSI: EmpowerKids: Cultivating Critical AI Literacy for Gender Equity	Engineering and Physical Sciences Research Council	£7k	08/24 → 04/25	E. Rubegni (PI)
Autonomous Inspection for Responsive and Sustainable Nuclear Fuel Manufacture (AIRS-NFM)	Engineering and Physical Sciences Research Council	£1M	09/21 → 10/25	J. Taylor (PI)
The ESRC International Centre for Language	ESRC	£146k & £343k	11/19 → 10/25	G. Westermann (PI)

3. ONGOING PROJECTS

Expansion Joint Energy Recovery	National Highways	£144k	06/24 → 06/25	Mohamed Saafi (PI); J. Ye (Col)
Horizon Europe: European Lighthouse on Secure and Safe AI – ELSA	UKRI	£428k	09/22 → 08/26	P. Angelov, (PI)
International Collaborations for Human-Centric Multi-Contact Teleoperation of Humanoid Robots	UK-RAS Network	-	10/24 → 09/26	Z. Wang (PI)
Investigating the Interplay of Organoselenides in Metal Homeostasis and the Gut-Brain Axis for General and Brain Health	Brazilian government (CNPq)	R\$ 412k	07/24 → 07/27	A. Benedetto (PI)
DSI: Accelerating Software Testing Using Quantum Computing	The Royal Society	£11k	09/24 → 08/26	U. Turker (PI)
SL: Horizon Europe “Integrated software toolbox for secure IoT-to-Cloud computing” (INTACT)	UKRI	£309k	10/24 → 09/27	Q. Ni (PI)
Horizon Europe: Continuums Of Game NETs: swarm intelligence as information processing (CoGNETs)	UKRI	£278k	06/24 → 05/27	Q. Ni (PI)
SL: MSCA: Smart and Proactive Multi-RAT Traffic Steering for V2X	Engineering and Physical Sciences Research Council	£58k	04/24 → 04/28	W. Yu (PI); Q. Ni (Col)
High-resolution spatiotemporal mapping of brain and gut organismal death processes in C. elegans	HHMI Janelia Farms visitor scientist program	\$99.6k	07/24 → 07/26	A. Benedetto (PI); H. Shroff (PI)
KTP with Forsberg	-	-	10/24 → 09/27	U. Turker (PI)
Small vessel cerebrovascular disease: data-driven approaches towards improved care and research	Health Data Research UK	£40k	09/24 → 05/26	H. Emsley (PI)

NIHR Clinical Lectureship 2023 (Laura White)	-	-	06/24 → 05/28	A. Gadoud (PI)
A mixed method study to describe the factors associated with palliative care inequalities experienced by cancer patients in the North West, and the impact of these inequalities	North West Cancer Research Fund	£99k	10/22 → 04/26	A. Gadoud (PI)
NIHR Clinical Lectureship 2022 (Daniel Darbyshire)	NIHR	£335k	06/23 → 05/27	A. Gadoud (PI)
Mapping illness trajectories for people with advanced cancer receiving immunotherapy treatment: a mixed methods study to identify something about need and health service input?	North West Cancer Research Fund	£239k	04/22 → 06/26	S. Brearley (PI); A. Gadoud (Col)
NIHR Clinical Lectureship 2020 (2nd post, for 2021)	NIHR	£353k	03/22 → 08/26	A. Gadoud (PI)
The Queer Lives of the Hospital: An Archive of LGBTQIA+ Experiences of Hospital Environments	-	-	03/24 →	N. Jacobs (PI)
IMPROVE: Innovative Multi-disciplinary European Research training netWork on VolcanoEs	European Commission	£244k	09/21 → 05/26	M. James (PI)
Harnessing Multisource Data for Public Transport: Problem Diagnosis and Stochastic Optimisation	The Royal Society	£12k	03/24 → 03/27	G. Lulli (PI); Y. Jiang (Col)
STORi: DSI: Safety in reinforcement learning decision making (Adam Page)	Datasparq	£40k	01/23 → 09/26	Anna-Lena Sachs (PI); C. Kirkbride (Col)
iCASE: Soft robotic highly active cell and pipe explorer featuring SiC semiconductors to characterise alpha, beta, gamma and neutron contamination	Dounreay Site Restoration Ltd	£53k	07/22 → 06/26	S. Monk (PI)
DSI: Horizon Europe: 4D PICTURE: Design-based Data-Driven Decision-support Tools: Producing Improved Cancer Outcomes Through User-Centred Research	UKRI	-	10/22 → 09/27	P. Rayson (PI); A. Nwosu (Col)

B-EGI: Bio-Enhanced Genetic Improvement for Emergent Software Systems	The Leverhulme Trust	£318k	03/23 → 11/26	B. Porter (PI)
BBC Prosperity Partnership - Future Personalised Object-Based Media Experiences Delivered at Scale Anywhere	Engineering and Physical Sciences Research Council	£1.2M	10/21 → 09/27	N. Race (PI); B. Porter (Col)
DSI: BEST: Blended Education for STEM Teaching	The British Council	£79k	12/24 → 11/26	J. Finney (PI); E. Rubegni (Col)
Mapping illness trajectories for people with advanced cancer receiving immunotherapy treatment: a mixed methods study to identify something about need and health service input?	North West Cancer Research Fund	£239k	04/22 → 06/26	S. Brearley (PI); A. Ushakova (Col)
Investigating the origins of the 'achievement gap': the effects of adversity	The Nuffield Foundation	£220k	08/23 → 09/26	K. Dunn (PI); G. Westermann (Col)
Lying in the Philosophy of Law	-	-	02/20 →	S. Wheatley (PI)
Investigation of dynamic response and damage/failure mechanism of composite laminates under impact loading condition	-	-	10/23 → 10/26	J. Ye (PI)
Protecting Democracy from Outside Interference	-	-	02/20 →	S. Wheatley (PI)

III. MAJOR PUBLICATIONS BY LIRA MEMBERS

1. JOURNAL ARTICLES

Author(s)	Article	Journal
Aghasanli, A., P. Angelov	Recursive SNE: Fast Prototype-based t-SNE for Large-Scale and Online Data	Transactions on Machine Learning Research Oct. 2025
Lopez Pellicer, P. Angelov, N. Suri	Securing (vision-based) autonomous systems: taxonomy, challenges, and defense mechanisms against adversarial threats	AI Review 58 (12): 1-59, 2025
Z. Zhang, P. Angelov, D. Kangin, N. Longepe and P.P. Mathieu	IMAFD: An Interpretable Multi- stage Approach to Flood Detection from time series Multispectral Data	Applied Soft Computing 183: 113582, July 2025
Z. Zhang, V. Aggarwal, P. Angelov, R. Jiang	Modeling Brain Aging with Explainable Triamase ViT: Towards Deeper Insights into Autism Disorder	IEEE Journal of Biomedical and Health Informatics 58: 373, Oct. 2025
Y. Zhu, V. Aggarwal, D. Konar, Y. Pashkin, P. Angelov, R. Jiang	Towards Quantum Image Generation on Single Qubit using Quantum Information Bottleneck	IEEE Transactions on Artificial Intelligence Sept. 2025
Aghasanli,A., P. Angelov, D. Kangin, J. Kerns, R. F. Shepherd	Transfer learning from inorganic materials to ivory detection	Nature Scientific Reports 15 (1): 15536, 15 April 2025.
R. Vyas, B. Williams, H. Rahmani, R. Boswell- Challand, Z. Jiang, P. Angelov, S. Black	Demonstrable and anatomy-driven knuckle identification via crease map segmentation	Signal Image and Video Processing 19 (4): 1-11, article 318, 21 February 2025.

D. Kangin, P. Angelov, Z. Zhang	IDEAL: Interpretable-by-Design Algorithms for learning from foundation feature spaces	Neurocomputing v.626, April 2025
Hamrashdi, H.A., Monk, S., Cheneler, D., Mamari, S.A	Optimising A Compact Dual-Particle Imager with A Novel Combination of Organic and Inorganic Scintillators	Nuclear Instruments and Methods in Physics Research 1082, 2
Ma, N., Cheneler, D., He, G., Yuan, J., Bian, G.	Coordinated Adaptive Impedance Control of Redundantly Actuated Parallel Manipulators	IEEE Transactions on Human-Machine Systems 55, 3, p. 323-332. 10 p.
Huang, X., Fayoumi, A., Winter, E., Najdawi, A	Design requirements of breast cancer symptom-management apps	Informatics 12, 3.
Fayoumi, A	Using Design Science Approach for Designing Digital Business Start-Ups	Journal of Information Technology Teaching Cases 22/04/2025
Fei, H., Ma, S., Du, G., Yadollahi, E., Lam, H., Faragasso, A., Montazeri, A., Wang, Z.	Large-Language-Model-Aided Assistive Robot for Single-Operator Bimanual Teleoperation: Introduction and Validation of a Flexible Assistance System	IEEE Robotics & Automation Magazine p. 2-12. 11 p. 29/12/2025
Meng, D., Guo, T., Ma, Z., Wang, R., Wang, Z., Li, X., Wang, X., Liang, B.	A Novel Variable-Diameter-Stiffness Cable-Driven Serpentine Manipulator: Design, Modeling, and Characterization	IEEE/ASME Transactions on Mechatronics 30, 6, p. 4874 - 4885. 12 p.
Chen, C., Kong, Y., Du, G., Wang, X., Guan, Q., Zhu, X., Wang, Z., Liu, P.X.	A Self-Adaptive Robot Parameter Calibration Method Via Broad-Deep Fusion Networks	IEEE Transactions on Instrumentation and Measurement 2025

Zeng, Y., Wu, L., Lam, H.K., Wang, Z., Wang, Z.W.	Extended Dissipative Interval Type-2 Fuzzy Sampled-Data Tracking Control for Uncertain Nonlinear Systems	International Journal of Fuzzy Systems 2025
Yin, N., Griffiths, F., Mann, C., Dawes, H., van Arkel, R., Bukhari, M., Kerns, J.	Raman spectroscopy identified fingernail compositional differences between sexes and age-related changes but not handedness or fingers in a healthy cohort	PLoS ONE 20, 8, 12 p 27/08/2025
Shepherd, R.F., Galeb, H.A., Bentham, J., Moshrefi, R., Ryan, K., Tantowi, N.A.B.C.A., Baldock, S.J., Halcovitch, N.R., Stockmann, T.J., Hardy, J.G., Kerns, J.G., Taylor, A.M.	Analysis of Interactions Between Pyomelanin and the Extracellular Matrix in an Ex Vivo Turkey Tendon Model	ChemistryOpen 14, 6, p. e202500194
Short, E., Calimport, S., Bentley, B.	Defining an ageing-related pathology, disease or syndrome: International Consensus Statement, International Consortium for the Classification of Ageing-Related Pathologies (ICCARP)	GeroScience 47, 2, p. 1713-1720. 8 p
Zhang, H., Zhang, W., Qu, H., Liu, J.	Enhancing human-centered dynamic scene understanding via multiple LLMs collaborated reasoning	Visual Intelligence 3, 1
Wan, J., Gan, M., Zhang, L., Zhou, J., Liu, J., Du, B., Chen, C.L.P.	Fine-Grained Image Captioning by Ranking Diffusion Transformer	IEEE transactions on image processing 34, p. 8332-8344. 13 p
Liu, Y., Shi, T., Zhai, M., Liu, J.	Frequency Decoupled Masked Auto-Encoder for Self-Supervised Skeleton-Based Action Recognition	IEEE Signal Processing Letters p. 546-550. 5 p
Lu, M., Lu, X., Liu, J.	Momentum Contrastive Teacher for Semi-Supervised Skeleton Action Recognition	IEEE Transactions on Image Processing 34, p. 295-305. 11 p
Qiu, C., Nan, G., Xia, H., Weng, Z., Wang, X., Shen, M., Tao, X., Liu, J.	Disentangled Dynamic Intrusion Detection	IEEE Transactions on Pattern Analysis and Machine Intelligence 47, 11, p. 10528-10545. 18 p

Zhu, L., Chen, T., Yin, J., See, S., Soh, D.W., Liu, J.	Replay Master: Automatic Sample Selection and Effective Memory Utilization for Continual Semantic Segmentation	IEEE Transactions on Pattern Analysis and Machine Intelligence 47, 11, p. 10311-10328. 18 p.
Zhu, L., Chen, T., Ji, D., Xu, P., Ye, J., Liu, J.	LLaFS++: Few-Shot Image Segmentation With Large Language Models	IEEE Transactions on Pattern Analysis and Machine Intelligence 47, 9, p. 7715-7732. 18 p.
Sun, X., Liu, J., Shen, H., Zhu, X., Hu, P.	On Efficient Variants of Segment Anything Model: A Survey	International Journal of Computer Vision 30/07/2025
Peng, D., Ke, Q., Huang, M.H., Hu, P., Liu, J.	Unified Prompt Attack Against Text-to-Image Generation Models	IEEE Transactions on Pattern Analysis and Machine Intelligence 47, 6, p. 4816-4834. 19 p.
Foo, L.G., Rahmani, H., Liu, J.	AI-Generated Content (AIGC) for Various Data Modalities: A Survey	ACM Computing Surveys 57, 9, 66 p.
Liu, Y., Wu, T., Shi, T., Wang, M., Gao, H., Liu, J.	Coupled Noise Suppression and Feature Enhancement Network for Skeleton-Based Action Recognition	IEEE Transactions on Industrial Informatics 21, 4, p. 3017-3026. 10 p.
Liu, Y., Song, S., Wang, M., Gao, H., Liu, J.	DE-Unet: Dual-encoder U-Net for Ultra-high Resolution Remote Sensing Image Segmentation	IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing 18, p. 12290-12302. 13 p.
Wei, L., Lang, C., Xu, Z., Liang, L., Liu, J.	Few-shot 3D Point Cloud Segmentation via Relation Consistency-guided Heterogeneous Prototypes	IEEE Transactions on Multimedia 3/04/2025
Zhu, L., Chen, T., Ji, D., Ye, J., Liu, J.	Not Every Patch is Needed: Toward a More Efficient and Effective Backbone for Video-Based Person Re-Identification	IEEE Transactions on Image Processing 34, p. 785-800. 16 p.

Liu, Y., Wu, P., Wang, M., Liu, J.	CPAL: Cross-prompting Adapter with LoRAs for RGB+X Semantic Segmentation	IEEE Transactions on Circuits and Systems for Video Technology 29/01/2025
Zhang, W., Rahmani, H., Liu, J.	Unpaired 3D Shape-to-Shape Translation via Gradient-Guided Triplane Diffusion	IEEE Transactions on Visualization and Computer Graphics 13 p. 28/01/2025.
Zhang, Z., Aggarwal, V., Angelov, P., Jiang, R.	Modeling Brain Aging with Explainable Triamere ViT: Towards Deeper Insights into Autism Disorder	IEEE Journal of Biomedical and Health Informatics 29, 11, p. 8409-8422. 14 p.
Qamar, S., Furqan Qadri, S., Alroobaea, R., Alshmrani, G.M., Fazil, M., Jiang, R.	ScaleFusionNet: transformer- guided multi-scale feature fusion for skin lesion segmentation	Scientific Reports 15, 1
Konar, D., Sreekumar, N., Jiang, R., Aggarwal, V.	Alz-QNet: A Quantum Regression Network for Studying Alzheimer's Gene Interactions	Computers in Biology and Medicine 196, Part C, 10 p
Wang, B., Jiang, R.	DNR-Pruning: Sparsity-Aware Pruning via Dying Neuron Reactivation in Convolutional Neural Networks	Transactions on Machine Learning Research 2025-September, 26 p.
Xia, R., Jiang, R.	Energy Landscape-Aware Vision Transformers: Layerwise Dynamics and Adaptive Task- Specific Training via Hopfield States	Advances in Neural Information Processing Systems 38.
Zhu, Y., Jiang, R., Ni, Q., Bouridane, A.	Enable Quantum Graph Neural Networks on a Single Qubit with Quantum Walk	IEEE Transactions on Artificial Intelligence 10 p.

Xu, B., Ni, Q., Bouridane, A., Jiang, R.	A Man-Vehicle e-Passport System using Biometric Blockchain towards Automated Border Control	Frontiers in Blockchain 2025, 8.
Zheng, G., Ni, Q., Kaushik, A., Yang, L., Wang, Y., Zarakovitis, C.	Semantic Communication Meets Heterogeneous Network: Emerging Trends, Opportunities, and Challenges	IEEE Network p. 1-8. 8 p.
Qin, X., Yu, W., Ni, Q., Song, Z., Hou, T., Wang, J., Sun, X.	Resource Allocation and Beamforming Design for Active STAR-RIS-Assisted Wireless- Powered MEC	IEEE Internet of Things Journal 12, 23, p. 51182- 51197. 16 p.
Liu, Y., Zhang, R., Jiang, R., Zhu, Y., Hu, H., Ni, Q., Fei, Z., Niyato, D.	STAR-RIS Enabled ISAC Systems With RSMA: Joint Rate Splitting and Beamforming Optimization	IEEE Transactions on Cognitive Communications and Networking 12, p. 312-326.
Zheng, G., Ni, Q., Navaie, K., Zarakovitis, C.	Socially-Inspired Semantic Communication Codec Updating for NTN-Enabled Intelligent Transportation Systems	IEEE Transactions on Intelligent Transportation Systems 26, 10, p. 17901-17913. 13 p.
Chen, X., Wu, C., Shen, Y., Ji, Y., Yoshinaga, T., Ni, Q., Zarakovitis, C.C., Zhang, H.	Communication and Control Co-Design in 6G: Sequential Decision- Making with LLMs	IEEE Network 39, 4, p. 131-138. 8 p.
Zhu, Y., Jiang, R., Ni, Q., Bouridane, A.	Enable Quantum Graph Neural Networks on a Single Qubit with Quantum Walk	IEEE Transactions on Artificial Intelligence 10 p.
Zhu, S., Li, L., Wang, X., Ni, Q., Jiang, Y., Gao, H., Han, Z., Gao	Large-Scale Indoor Localization via Outdoor Crowdsourcing Trajectories on Ride-Hailing Platform	Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies 9, 2, p. 1-23. 23 p.

Nie, D., Yu, W., Foh,
C.H., Ni, Q.

A NOMA-Enhanced 2-Step
RACH Procedure for Low-
Latency Access in 5G
Networks

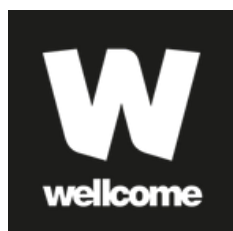
IEEE Internet of
Things Journal
12, 9, p. 11568. 11580 p.

Song, T., Yin, L., Zhu, D.,
Sun, Y., Ni, Q.

Novel Frequency-Efficient
Communication-Positioning
Integrated Signal and Ranging
Methodology for Future Aviation

IEEE Wireless
Communications Letters
14, 5, p. 1561-1565. 5 p.





Qin, X., Yu, W., Ni, Q., Song, Z., Hou, T., Sun, X.	Joint Resource Allocation and Beamforming Design for BD-RIS- Assisted Wireless-Powered Cooperative Mobile Edge Computing	IEEE Communications Letters
Cheong, C., Song, Y., Cao, Y., Zhang, Y., Wang, H., Ni, Q.	DCACA: Dual-Model Consensus- Based Anti-Risk Confidence Allocation Trust Management in IoVs	IEEE Internet of Things Journal 12, 2, p. 1890-1906. 17 p.
Sha, J., Wu, J., Wang, M., Pu, Y., Lu, S., Bilal, M.	QoE-aware edge server placement in mobile edge computing using an enhanced genetic algorithm	International Journal of Intelligent Networks 6, p. 65-78. 14 p.
Chen, C., Xu, X., Zhang, Y., Bilal, M., Xiang, H.	Lightweight Federated Learning for Terminal-Edge- Cloud with Two-Step Privacy Protection in Consumer Electronics	IEEE Transactions on Consumer Electronics 71, 4, p. 12096-12105.
Chen, B., Xiang, H., Wan, J., Bilal, M., Xu, X.	ViResGF-Net: Gated Multi-Scale Hybrid Vision Transformer for Robust Fundus Image Multi-Label Classification: Gated Multi-Scale Hybrid Vision Transformer for Robust Fundus Image Multi-Label Classification	IEEE Journal of Biomedical and Health Informatics 11 p.
Chen, C., Xu, X., Cui, G., Xiang, H., Wu, J., Bilal, M	Secure and Privacy-Preserving Multi-Source Optimization for UAV-Assisted Intelligent Transportation Systems	IEEE Transactions on Intelligent Transportation Systems 12 p.
Tang, S., Xia, X., Bilal, M., Dou, W., Xu, X.	Human-Centric Service Offloading with CNN Partitioning in Cloud-Edge Computing-Empowered Metaverse Networks	IEEE Transactions on Consumer Electronics 71, 4, p. 12300-12311. 12 p.
Wang, Y., Xu, X., Wang, R., Bilal, M., Liu, W., Cui, G.	A Resource-Efficient Placement of Edge Servers for Green Agriculture Consumer Electronics	IEEE Transactions on Consumer Electronics 71, 4, p. 12373-12385. 13 p.

Xu, J., Xiang, H., Zang, S., Bilal, M., Khan, M., Cui, G.	A DQN-Based Edge Offloading Method for Smart City Pollution Control	Tsinghua Science and Technology 30, 5, p. 2227-2242. 16 p.
Liu, W., Bilal, M., Shi, Y., Xu, X.	Distributed service caching with deep reinforcement learning for sustainable edge computing in large-scale AI	Digital Communications and Networks 11, 5, p. 1447-1456. 10 p.
Agrawal, S., Kumar, N., Rathee, G., Kerrache, C.A., Calafate, C.T., Bilal, M.	Improving stock market prediction accuracy using sentiment and technical analysis	Electronic Commerce Research 25, p. 4103-4126.
Chen, C., Liu, X., Zhao, S., Bilal, M.	GAN-based solar radiation forecast optimization for satellite communication networks	International Journal of Intelligent Networks 6, p. 89-96. 8 p.
Xu, X., Gu, L., Bilal, M., Khan, M., Wen, Y., Liu, G., Yuan, Y.	Multi-Agent Reinforcement Learning based Edge Content Caching for Connected Autonomous Vehicles in IoV	ACM Transactions on Autonomous and Adaptive Systems 20, 3, p. 1-26. 26 p.
Shi, X., Zhang, J., Liu, G., Yi, K., Bilal, M.	Self-attention based cloud top height retrieval for intelligent meteorological service recommendation	Information Sciences 713.
Xu, X., Sun, J., Cui, G., Qi, L., Bilal, M., Dou, W., Cai, Z., Crowcroft, J.	Dynamic Optimization of Edge Aggregation Structures and Update Frequencies for Efficient Distributed Hierarchical Model Training	IEEE Transactions on Mobile Computing 1-18. 18 p.
Cheng, Y., Hu, Y., Liu, W., Bilal M.	Federated learning with adaptive local aggregation for privacy-aware recommender systems in Internet of Vehicles	Information Sciences 710.
Tariq, O., Dastagir, B., Bilal, M., Han, D.	DeepILS: Towards Accurate Domain Invariant AIoT-enabled Inertial Localization System	IEEE Internet of Things Journal 12, 11, p. 17153 - 17168. 16 p.
Mustafa, E., Shuja, J., Rehman, F., Namoun, A., Bilal, M., Bilal, K.	Deep Reinforcement Learning and SQP-driven task offloading decisions in vehicular edge computing networks	Computer Networks 262.
Xu, X., Zhou, X., Bilal, M., Zeadally, S., Crowcroft, J., Qi, L., Xue, S.	Socially beneficial metaverse: Framework, technologies, applications, and challenges	Computer Networks 263.

Chen, P., Zheng, M., Du, X., Bilal, M., Lu, Z., Duan, Q., Xu, X.	A Data Replication Placement Strategy for the Distributed Storage System in Cloud-Edge-Terminal Orchestrated Computing Environments	IEEE Internet of Things Journal
Fei, Y., Fang, H., Yan, Z., Qi, L., Bilal, M., Li, Y., Xu, X., Zhou, X.	Privacy-Aware Edge Computation Offloading With Federated Learning in Healthcare Consumer Electronics System	IEEE Transactions on Consumer Electronics 71, 2, p. 4628-4638. 11 p.
Rajareddy, G.N.V., Mishra, K., Majhi, S.K., Sahoo, K.S., Bilal, M.	M-SOS: Mobility-Aware Secured Offloading and Scheduling in Dew-Enabled Vehicular Fog of Things	IEEE Transactions on Intelligent Transportation Systems 26, 4, p. 4851-4864. 14 p
Khan, J., Fayaz, M., Zaman, U., Lee, E., Balobaid, A.S., Bilal, M., Kim, K.	Optimizing alpha-beta filter for enhanced predictions accuracy in industrial applications using Mamdani fuzzy inference system, 30/04/2025 In: Alexandria Engineering Journal	Alexandria Engineering Journal 119, p. 598-608. 11 p
Liu, G., Bilal, M., Xu, X., Xia, X.	Digital Twins-Assisted Service Recommendation with Preference Prediction in 6G-Enabled Edge Computing	Communications Magazine 63, 3, p. 54-60. 7 p.
Liu, Q., Sun, S., Liang, Y., Xu, X., Liu, M., Bilal, M., Wang, Y., Li, X., Zheng, Y.	REFOL: Resource-Efficient Federated Online Learning for Traffic Flow Forecasting	IEEE Transactions on Intelligent Transportation Systems 26, 2, p. 2777-2792. 16 p
Wu, F., Xu, X., Bilal, M., Wang, X., Cheng, H., Wu, S.	VEC-Sim: A simulation platform for evaluating service caching and computation offloading policies in Vehicular Edge Networks,	Computer Networks 257.
Meng, K., Wu, Z., Bilal, M., Xia, X., Xu, X.	Blockchain-enabled decentralized service selection for QoS -aware cloud manufacturing	Expert Systems 42, 1.
Hu, Y., Xu, X., Duan, L., Bilal, M., Wang, Q., Dou, W.	End-Edge Collaborative Inference of Convolutional Fuzzy Neural Networks for Big Data-Driven Internet of Things	IEEE Transactions on Fuzzy Systems 33, 1, p. 203-217. 15 p.
Wu, X., Gao, J., Bilal, M., Dai, F., Xu, X., Qi, L., Dou, W.	Federated learning-based private medical knowledge graph for epidemic surveillance in internet of things	Expert Systems 42, 1

Ahmadian, H., Arefi, M.M., Khayatani, A., Montazeri, A.	A barrier Lyapunov-based fast adaptive robust control system for 6- DOF autonomous submersible vehicles	Robotics and Autonomous Systems 194
Sadeghzadeh Nokhodberiz, N., Chahramani-Tabrizi, M., Montazeri, A.	Formation Producing Control of Multi-Quadcopter Systems Under the Cloud Access	IEEE Access 13, p. 10870-10882. 13 p.
Dashtaki, S., Hosseini Chagahi, M., Bahadori, A., Moshiri, B., Jalil Piran, M., Montazeri, A.	HSIF: A Transformer-Based Cross-Attention Framework for Cryptocurrency Trend Forecasting via Multimodal Sentiment-Market Fusion	IEEE Access 13, p. 156600-156612. 13 p.
Fei, H., Ma, S., Du, G., Yadollahi, E., Lam, H., Faragasso, A., Montazeri, A., Wang, Z.	Large-Language-Model-Aided Assistive Robot for Single-Operator Bimanual Teleoperation: Introduction and Validation of a Flexible Assistance System	IEEE Robotics & Automation Magazine p. 2-12. 11 p.
Sadeghzadeh-Nokhodberiz, N., Montazeri, A.	Distributed Consensus-Based Control of Multiquadcopter Systems for Formation Producing Under Cloud Access	IEEE Systems Journal 19, 3, p. 790-800. 11 p.
Elhaki, O., Shojaei, K., Chatraei, A., Montazeri, A.	Observer-Based Adaptive Robust Actor–Critic Learning Saturated <i>PID</i> Controller for a Class of Euler–Lagrange Robotic Systems With Guaranteed Performance: Theory and Practice	IEEE Transactions on Systems, Man, and Cybernetics: Systems 55, 2, p. 1400-1412. 13 p.
Saeedi, M., Zarei, J., Saif, M., Shanahan, D., Montazeri, A.	Resilient Event-Triggered Terminal Sliding Mode Control Design for a Robot Manipulator	IEEE Transactions on Automation Science and Engineering 22, 1, p. 570-581. 12 p.
Arellanes, D.	Models of High Level Computation	Frontiers in Computer Science 7.
Zhang, X., Jia, W., Li, Y., Luo, L., Atkinson, P.,	Comparative analysis of long-term trends and climate sensitivity of spring phenology across forests, shrublands, and grasslands in the middle–high latitudes of the Northern Hemisphere	GIScience & Remote Sensing 62, 1.
Li, J., Wang, Q., Atkinson, P.M.	Filling gaps in global daily TROPOMI solar-induced chlorophyll fluorescence data from 2018 to 2021	IEEE Transactions on Geoscience and Remote Sensing 63, p. 1-15. 15 p.

Shi, W., Meng, Q., Zhang, L., Zhao, M., Su, C., Guo, G., Li, T., Atkinson, P.M.	Instance-Level Multitask Learning for 3D Building Extraction from Monocular Off-Nadir Satellite Sensor Imagery	IEEE Transactions on Geoscience and Remote Sensing 63.
Zhang, C., Wang, Q., Atkinson, P.M.	Integration of coarser images in subpixel mapping	Urban Informatics 4, 1.
Wang, J., Xie, H., Yan, L., Zhou, T., Wang, Y., Zhang, J., Bruzzone, L., Atkinson, P.M.	MSCD-Net: From Unimodal to Multimodal Semantic Change Detection	IEEE Transactions on Geoscience and Remote Sensing 63, p. 1-17. 17 p.
Wang, L., Wang, Q., Tong, X., Atkinson, P.M.	MST-Net: A General Deep Learning Model for Thick Cloud Removal from Optical Images	IEEE Transactions on Geoscience and Remote Sensing 63, p. 1-18. 18 p.
Wang, J., Yan, L., Yang, J., Xie, H., Yuan, Q., Wei, P., Gao, Z., Zhang, C., Atkinson, P.M.	MaCon: A Generic Self-Supervised Framework for Unsupervised Multimodal Change Detection	IEEE Transactions on Image Processing 34, p. 1485-1500. 16 p.
Ding, X., Wang, Q., Yang, H., Atkinson, P.M.	Reconstruction of 500 m, 8-day Historical MODIS Fractional Vegetation Cover (FVC) Dataset (1982–2000) in China	IEEE Transactions on Geoscience and Remote Sensing 63.
Zhang, J., Ding, L., Zhou, T., Wang, J., Atkinson, P., Bruzzone, L.	Recurrent Semantic Change Detection in VHR Remote Sensing Images Using Visual Foundation Models	IEEE Transactions on Geoscience and Remote Sensing 63.
Wang, L., Wang, Q., Atkinson, P.M.	Thick cloud removal of Landsat time-series using convolutional LSTM with embedded residual modules	IEEE Transactions on Geoscience and Remote Sensing 63.
Shahtahmassebi, A., Shahtahmassebi, G., Moore, N., Atkinson, P.	Establishing a Historical Fine-Resolution Urban Database from KH-9 HEXAGON MCS and PCS Imagery Including an Urban Landscape Map, Stereo Anaglyph Image and Digital Surface Model	PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science

Wang, Z., Zhang, C., Shi, K., Shangguan, Y., Hu, B., Chen, X., Wei, D., Chen, S., Atkinson, P.M., Zhang, Q.	A full-coverage satellite-based global atmospheric CO2 dataset at 0.05° resolution from 2015 to 2021 for exploring global carbon dynamics	Earth System Science Data 17, 10, p. 5355-5375. 21 p.
Veral, M.A., Pickup, R.W., Roy, M., Sanderson, J., Agrawal, G., Atkinson, P.M.	Hemati, S Geographic distribution of inflammatory bowel disease in the UK: A spatially explicit survey	PLoS One 20, 8.
Ghamisi, P., Yu, W., Marinoni, A., Gevaert, C.M., Persello, C., Selvakumaran, S., Girotto, M., Horton, B.P., Rufin, P., Hostert, P., Pacifici, F., Atkinson, P.M.	Responsible Artificial Intelligence for Earth Observation: Achievable and realistic paths to serve the collective good	IEEE Geoscience and Remote Sensing Magazine 13, 3, p. 72-96. 24 p.
Mendes, J.A., Keegan, T., Jones, L., Atkinson, P.M., Sedda, L.	Systematic mapping review of statistical methods applied to the relationships between cancer diagnosis and geographical level factors in UK	BMJ Open 15, 7
Kanja, K., Zhang, C., Atkinson, P.	Evaluating multi-seasonal SAR and optical imagery for above-ground biomass estimation using the national forest inventory of Zambia	International Journal of Applied Earth Observation and Geoinformation 139, 29 p.
Kanja, K., Zhang, C., Lippe, M., Atkinson, P.	Mapping Tropical Dry Miombo Woodlands into Functional Forest Classes Using Sentinel-1 and Sentinel-2 Imagery and Machine Learning	Remote Sensing Applications: Society and Environment 38.
Firozjaei, M., Mijani, N., Atkinson, P.	A remote sensing-based strategy for mapping anthropogenic urban surface ecological poorness zones (AUSEPZ): A case study of Lisbon City	Ecological Informatics 85.
Zhang, C., Wang, Q., Atkinson, P.	Unsupervised object-based spectral unmixing for subpixel mapping	Remote Sensing of Environment 318.
Wang, Q., Ma, W., Liu, S., Tong, X., Atkinson, P.	Data fidelity-oriented spatial-spectral fusion of CRISM and CTX images	ISPRS Journal of Photogrammetry and Remote Sensing 220, p. 172-191. 20 p.
M. Guo, Y. Wu, C.M. Hobson, Y. Su, S. Qian, E. Krueger, R. Christensen, G. Kroeschell, J. Bui, M. Chaw, L. Zhang, J. Liu, X. Hou, X. Han, Z. Lu, X. Ma, A. Zhovmer, C. Combs, M. Moyle, E. YeminiH. Liu, Z. Liu, A. Benedetto, P. La Riviere, D. Colón-Ramos, H. Shroff	Deep learning-based aberration compensation improves contrast and resolution in fluorescence microscopy	Nature Communications 16, 1, p. 313.

Aliatimis, G., Yoshida, R., Boyacı, B., Grant, J.A.	Covariance Decomposition for Distance Based Species Tree Estimation	arxiv.org. p. 1-56.
Christie, S.H., Singh, M.P., Chopra, A.K.	Argus: Programming with Communication Protocols in a Belief-Desire-Intention Architecture	Artificial Intelligence 348.
Garner, A., Ashcroft, Q., Kirkwood, D.W., Chandrabalan, V., Emsley, H., Mason, S.M., Preston, N., Knight, J.	Evaluating the impact of NHS strikes on patient flow through emergency departments	Emergency Medicine Journal 43, 3, p. 151-157. 7 p.
Maskery, M.P., Rennie, N., Mathur, S., Knight, J., Emsley, H.C.A.	Prevalence of white matter hyperintensities and radiological cerebral small vessel disease: an insight from routinely collected data	BMC Neurology 26, 1, 9 p.
Epilepsy Research Institute SUDEP Working Group, Emsley, H.	Epilepsy Research Institute UK Sudden Unexpected Death in Epilepsy (SUDEP) Workshop: Identifying the pre-clinical and clinical priorities for SUDEP research	Epilepsy and Behavior 171.
Gordon, C., Emsley, H.C.A., Lightbody, C.E., Clegg, A., Harris, C., Harrison, J., Wall, J., Davidson, C.E., Watkins, C.L.	Clinical Methods Supporting Initial Recognition of Early Post-Stroke Seizures: A Systematic Scoping Review	Neurology International 17, 10.
Biggin, F., White, L.M., Ashcroft, Q., Howcroft, T., Chandrabalan, V.V., Emsley, H., Knight, J.,	Density of routinely collected neurology data depends on patient visit type: an investigation using the observational medical outcomes partnership common data model	BMJ Neurology Open 7, 2, p. e001202.
McFadden, J., Matthews, J., Scott, L., Herholz, K., Dickie, B., Haroon, H., Sparasci, O., Ahmed, S., Kyrtata, N., Parker, G., Emsley, H., Handley, J., Lohezic, M., Parkes, L.	Compensatory increase in oxygen extraction fraction is associated with age-related cerebrovascular disease	NeuroImage : Clinical 45.
Henderson, R., Brearley, S.G., French, M., Carr, N., Gadoud, A.	Equitable Inclusion of Patients with Cancer on the Palliative Care Register: a systematic review in primary care	British Journal of General Practice 75, 759, p. e659- e668. 19 p.

Remawi, B.N., Preston, N., Gadoud, A.	Development of a complex palliative care intervention for patients with heart failure and their family carers: a theory of change approach	BMC Palliative Care 24, 1.
Kragh-Furbo, M., French, M., Dunleavy, L., Hancock, S., Sanders, K., Doherty, M., Gadoud, A.	Deathbed Etiquette – The Guide: A Qualitative Study Exploring the Views of Practitioners on its Introduction into End-of-Life Care Settings	Journal of Palliative Care 40, 2, p. 162-167. 6 p.
Dunleavy, L., Board, R., Coyle, S., Dickman, A., Ellershaw, J.E., Gadoud, A., Halvorsen, J., Hulbert-Williams, N., Lightbody, C.E., Mason, S., Nwosu, A., Partridge, A., Payne, S., Preston, N., Swash, B., Taylor, V., Walshe, C.	Developing research collaborations and building capacity in palliative and end-of-life care in the north west coast of England: The PalCaRE-NWC partnership	Public Health Research
Black, S.R., Jacobs, N.	Fans and AI: Transformations in fandom and fan studies,	Transformative Works and Cultures 46 (Editorial).
Black, S.R., JaTseklevs, E., Cooper, R., Jacobs, N., Cureton, P.cobs, N.	Designing the future of healthcare: the role of design research in shaping digital twin technologies	Design for Health 9, 1, p. 121-131. 11 p. (Editorial).
Jacobs, N., Black, S.R.	New Currents: Fans and AI: Transformations in fandom and fan studies	Transformative Works and Cultures 46 (Special Issue)
Jacobs, N., Sacks, J., Craigon, P.J., Brewer, S., Frey, J., Gutierrez Mendoza, A., Kanza, S., Manning, L., Munday, S., Pearson, S., Wintour, A.	Speculative Methods for Exploring Data Ethics in Food Systems	The Design Journal 28, 5, p. 975-998. 24 p.
Severe, E., Surridge, B.W.J., Fiener, P., Coogan, M.P., Platel, R.H., James, M.R., Quinton, J.	The Transport of Microplastics from Soil in Response to Surface Runoff and Splash Erosion	Environmental Science and Technology 59, 27, p. 14063-14074. 12 p.

Harcourt, W.D., Robertson, D.A., Macfarlane, D.G., Rea, B.R., James, M.R., Diggins, M., Fyffe, B.

Spatial and temporal variations in 94 GHz radar backscatter from a springtime snowpack

IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
18, p. 3611-3624. 14 p.

Longpré, M., Tramontano, S., Pankhurst, M.J., Roman, D.C., Reiss, M.C., Cortese, F., James, M.R., Spina, L., Rodríguez, F., Coldwell, B., Martín-Lorenzo, A., Barbee, O., D'Auria, L., Chamberlain, K.J., Scarrow, J.H.

Shifting melt composition linked to volcanic tremor at Cumbre Vieja volcano

Nature Geoscience

Hua, M., Pereira, F.C., Jiang, Y., Chen, X., Chen, J.

Transfer learning for cross-modal demand prediction of bike-share and public transit

Journal of Intelligent Transportation Systems
29, 6, p. 640-653. 14 p.

Zhong, S., Liu, A., Fan, M., Song, Y., Jiang, Y.

Optimizing electric bus charging station locations: An integrated land-use and transportation approach

Applied Energy
401.

Guo, R., Seshadri, R., Li, W., Liu, R., Jiang, Y.

Fare Optimization for the Demand Adaptive Paired-Line Hybrid Transit System

Networks and Spatial Economics

Wu, Y., Hu, X., Wang, Y., Jiang, Y.

Assessing and Mitigating Carbon Emission Exposure in Dynamic Multimodal Transport Networks

Sustainable Cities and Society
133.

Yang, Y., Jiang, X., Yan, Y., Liu, T., Jiang, Y.

Bimodal transit design with heterogeneous demand elasticity under different fare structures

Transportmetrica A: Transport Science
21, 1, p. 200-226. 27 p.

Chen, X., Jiang, G., Jiang, Y.

Multivariate discrete choice with rational inattention: Model development, application, and calibration

Transportation Research Part E: Logistics and Transportation Review
194.

Gong, Y., Zhong, S., Zhao, S., Xiao, F., Wang, W., Jiang, Y.	Optimizing green splits in high-dimensional traffic signal control with trust region Bayesian optimization	Computer-Aided Civil and Infrastructure Engineering 40, 6, p. 741-763. 23 p.
Mendes, J.A., Keegan, T., Jones, L., Atkinson, P.M., Sedda, L.	Systematic mapping review of statistical methods applied to the relationships between cancer diagnosis and geographical level factors in UK	BMJ Open 15, 7.
Gong, M., Davies, J., Killick, R., Nemeth, C., Liu, S., Quinton, J.N	A changepoint approach to automated estimation of soil moisture drydown parameters from time series data	Scientific Reports 15, 1
Killick, R., Wilson, J., Chen, X., Lund, R., Killick, Wilson	Chen and Lund's contribution to the Discussion of 'New tools for network time series with an application to COVID-19 hospitalisations	Journal of the Royal Statistical Society Series A: Statistics in Society
Grundy, T., Killick, R., Svetunkov, I.	Online Detection of Forecast Model Inadequacies Using Forecast Errors	Journal of Time Series Analysis
Liu, S., Ward, S.E., Wilby, A., Manning, P., Gong, M., Davies, J., Killick, R., Quinton, J.N., Bardgett, R.D.	Multiple targeted grassland restoration interventions enhance ecosystem service multifunctionality	Nature Communications 16, 1.
Gong, M., Killick, R., Nemeth, C., Quinton, J.	A changepoint approach to modelling non-stationary soil moisture dynamics	Journal of the Royal Statistical Society Series C: Applied Statistics 74, 3, p. 866-883. 18 p
Killick, R., Knight, M.I., Nason, G.P., Nunes, M.A., Eckley, I.A.	Automatic locally stationary time series forecasting with application to predicting UK gross value added time series	Journal of the Royal Statistical Society Series C: Applied Statistics 74, 1, p. 18-33. 16 p.

Wincza, R., Hartley, C.,
Donovan, T., Linkenauger,
S., Crawford, T., Griffiths, D.,
Doherty, M.

Specific Visual Expertise
Reduces Susceptibility to
Visual Illusions

Scientific Reports
15, 1

Lopez Pellicer, A., Angelov,
P., Suri, N.

Securing (vision-based)
autonomous systems:
taxonomy, challenges, and
defense mechanisms
against adversarial threats

Artificial Intelligence
Review
58, 12

Hussain Alvi, S., Arif, M.,
Navaie, K.

Efficiency of NOMA-
Assisted FD-AF Vehicle-to-
Vehicle Relaying Over
Nakagami-m Fading Channels

IEEE Access
13, p. 82834-82846. 13 p

Navaie, K., Valatabar, M.,
Fathi, M.

Efficient Resource
Allocation for Blockchain-
Enabled Mobile Edge
Computing: A Joint
Optimization Approach

IEEE Access
13, p. 129011-129023. 13 p.

Navaie, K.

From rights to runtime:
Privacy engineering for
agentic AI

Ai Magazine
46, 4

Zheng, G., Ni, Q., Navaie, K.,
Zarakovitis, C.

Socially-Inspired Semantic
Communication Codec
Updating for NTN-Enabled
Intelligent Transportation

IEEE Transactions on
Intelligent Transportation
Systems
26, 10, p. 17901-17913. 13 p.

Kruminis, E., Navaie, K.,
Ascigil, O.

BB-FLoC: A Blockchain-
based Targeted
Advertisement Scheme
with K-Anonymity

ACM Distributed Ledger
Technologies
16 p.

Alvi, S.H., Arif, M., Navaie, K.

Efficiency of NOMA-
Assisted FD-AF vehicle-to-
vehicle Relaying over
Nakagami-m Fading
Channels

IEEE Access

Ahmad, O., Mason, S., Stanley, S., Nwosu, A.C.	Exploring Perspectives of Health Care Professionals on AI in Palliative Care: Qualitative Interview Study: A Qualitative Study	JMIR Human Factors 12
Wood, M., Nwosu, A., Dinham, D., Seneque, N., Walshe, C.	How, when and why is emotional support delivered using videoconferencing by adult palliative care services successful?: A realist synthesis	Palliative Care and Social Practice 19, 17 p.
Dunleavy, L., Board, R., Coyle, S., Dickman, A., Ellershaw, J.E., Gadoud, A., Halvorsen, J., Hulbert-Williams, N., Lightbody, C.E., Mason, S., Nwosu, A., Partridge, A., Payne, S., Preston, N., Swash, B., Taylor, V., Walshe, C.	Developing research collaborations and building capacity in palliative and end-of-life care in the north west coast of England: The PalCaRE-NWC partnership	Public Health Research
Coyle, S., Chapman, E., Hughes, D.M., Baker, J., Slater, R., Davison, A.S., Norman, B.P., Roberts, I., Nwosu, A.C., Gallagher, J.A., Ranganath, L.R., Boyd, M.T., Mayland, C.R., Kell, D.B., Mason, S., Ellershaw, J., Probert, C.	Urinary metabolite model to predict the dying process in lung cancer patients	communications medicine 5, 1
Nemeth, Z., Faulkner Rainford, P., Porter, B.	Revisiting the Fitness Landscape of Genetic Improvement for Source Code: A Phenotypic Speciation Approach	ACM Transactions on Evolutionary Learning and Optimization
Rodrigues Filho, R., Sene, I., Porter, B., Bittencourt, L., Kon, F., Costa, F.	Exploring emergent microservice evolution in elastic deployment environments	Journal of Systems and Software 219.
Porter, B., Faulkner Rainford, P., Rodrigues-Filho, R.	Self-Designing Software	Communications of the ACM 68, 1, p. 50-59. 10 p.
Harvey, D., Rayson, P., Lobban, F., Palmier-Claus, J., Dolman, C., Jones, S.	Navigating Hypersexuality in Bipolar: Insights from a Corpus-Assisted Discourse Analysis of Reddit Posts	Inquiry : a journal of medical care organization, provision and financing 62.

Lobban, F., Caton, N., Glossop, Z., Haines, J., Hayward, G., Heapy, C., Johnston, R., Jones, S., Lodge, C., Machin, K., Marshall, P., Rakic, T., Rayson, P., Robinson, H., Semino, E., Vidler, J.	Evaluating peer online forums to support health: Ethical and Practical Challenges	Journal of Medical Internet Research 27.
Lindroos Cermakova, A., Semino, E., Tusting, K., Caton, N., Coole, M., Glossop, Z., Jones, S., Lodge, C., Marshall, P., Tamara, R., Rayson, P., Robinson, H., Lobban, F.	'In my experience ...': The use of the word experience in peer online forums for mental health	DIGITAL HEALTH 2025, 11
Lobban, F., Jones, S., Caton, N., Glossop, Z., Lindroos Cermakova, A., Lodge, C., Marshall, P., Rayson, P., Robinson, H., Rycroft-Malone, J., Semino, E., Tusting, K.	Impacts of Using Peer Online Forums in Mental Health: Realist Evaluation Using Mixed Methods	JMIR 27, p. e79289.
Robinson, H., Booth, M., Fothergill, L., Friedrich, C., Glossop, Z., Haines, J., Harding, A., Johnston, R., Jones, S., Machin, K., Meacock, R., Nielson, K., Marshall, P., Puddephatt, J., Rakic, T., Rayson, P., Rycroft-Malone, J., Shrayne, N., Swithenbank, Z., Wise, S., Lobban, F.	Understanding the Needs of Moderators in Online Mental Health Forums: Realist Synthesis and Recommendations for Support: Realist Synthesis and Recommendations for Support	JMIR Mental Health 12, p. e58891.
Marshall, P., Caton, N., Glossop, Z., Jones, S., Meacock, R., Rayson, P., Robinson, H., Lobban, F.	Understanding Safety in Online Mental Health Forums: Realist Evaluation	JMIR Mental Health 12.
Harvey, D., Rayson, P., Lobban, F., Palmier-Claus, J., Dolman, C., Chataigné, A., Jones, S.	Using Natural Language Processing Methods to Build the Hypersexuality in Bipolar Reddit Corpus: Infodemiology Study of Reddit	JMIR Infodemiology 5
Malinverni, L., Schaper, M., Rubegni, E., Tamashiro, M.	Scaffolding Children's critical reflection on intelligent technologies: Opportunities from speculative fiction	International Journal of Child-Computer Interaction 43.
Mavrikis, M., Lewin, C., Cukurova, M., Major, L., Outhwaite, L., Rubegni, E.	BJET Editorial Spring 2025: Reporting on AIED research and ethical considerations	British Journal of Educational Technology 56, 3, p. 1118-1121. 4 p. (editorial).

Filho, W.L., Begum, H., Wall, T., Hindley, A., Anholon, R., Williams, K., Brown, J., Ryder, M., Cronshaw, S., Eustachio, J.H.P.P., Nuñez, E., Annelin, A., Gedeon, E., Trevisan, L., Aguilar-Rivera, N., Boström, G.

Social values and sustainable development in business education

Environmental Sciences Europe. 37.

Krendel, A., Ryder, M.

Role of science fiction in conceptualising the reproductive future: a linguistic and literary perspective

Medical Humanities 51, 3, p. 306-315. 10 p.

Arora, R., Sachs, A., Svetunkov, I., Muth, M., Boylan, J.E.

Forecasting demand during and after supply chain disruptions using a shock smoother ETS

International Journal of Production Research p. 1-27. 27 p.

Grundy, T., Killick, R., Svetunkov, I.

Online Detection of Forecast Model Inadequacies Using Forecast Errors

Journal of Time Series Analysis

Bandala, M., Chard, P., Cockbain, N., Dunphy, D., Eaves, D., Hutchinson, D., Lee, D., Leech, G., Ma, X., Marshall, S., Murray, P., Parker, A., Stirzaker, P., Taylor, C.J., Zabalza, J., Joyce, M.J.

A responsive integrated dry route for uranium hexafluoride conversion using machine intelligence

Energy Conversion and Management: X. 28.

Tsitsimpelis, I., Kennedy, A., Lennox, B., Livens, F., Mathur, K., Randall, O., Taylor, J., Watson, S., West, A., Joyce, M.

Low-density collimators for remote radiation characterisation tasks

Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment. 1079.

Joyce, M.J., Tsitsimpelis, I., Alton, T.L., James Taylor, C., West, A., Lennox, B., Livens, F.

Improving radiation localization via energy-resolved angular photon responses

International Journal of Modern Physics E. 34, 9.

Dunphy, R.D., Parker, A.J., Bandala, M., Bennet, S., Boxall, C., Chard, P., Cockbain, N., Eaves, D., Goddard, D., Ma, X., Taylor, C.J., Wilbraham, R., Zabalza, J., Murray, P., Joyce, M.J.

Hyperspectral imaging suggests potential for rapid quantification of fission products in spent nuclear fuel

Scientific Reports 15, 1.

Khan, I.U., Ali, A., Taylor, C.J., Ma, X.	Data-Driven Insights: Boosting Algorithms to Uncover Electricity Theft Patterns in AMI	IEEE Transactions on Instrumentation and Measurement 74, p. 1-12. 12 p.
Cheng, Y., Petrides, K., Ushakova, A., Ribeaud, D., Eisner, M., Murray, A.	Factors Associated With Momentary Acts of Aggression: An Investigation Using Machine Learning Approaches in Ecological Momentary Assessment Data	Psychology of Violence 15, 4, p. 425-434. 10 p.
Ushakova, A., McKenzie, K., Hughes, C., Stay, J., Murray, A.L.	Measurement invariance of the General Health Questionnaire GHQ 12 item version (GHQ-12): A Large UK Longitudinal Study Across Students and Non-Students	European Journal of Psychological Assessment 41, 2, p. 100-107. 8 p.
Harries, M., Ushakova, A.	Modelling emergency response times for Out-of-Hospital Cardiac Arrest (OHCA) patients in rural areas of the North of England using routinely collected data	BMC Emergency Medicine 25, 1.
Chen, X., Twomey, K., Hayes, M., Westermann, G.	The Limits of Curiosity?: New Evidence for the Roles of Metacognitive Abilities and Curiosity in Learning	Metacognition and Learning 20.
Karadag, D., Bazhydai, M., Westermann, G.	Young Children's Transmission of Information following Self-discovery and Instruction	Frontiers in Developmental Psychology
Rothwell, C., Westermann, G., Hartley, C.	Investigating visual attention differences and relationships with accuracy during word learning in autistic and neurotypical children	Journal of Autism and Developmental Disorders
Choisdealbha, Á.N., Westermann, G., Reid, V.	Neural representations of grasp congruence during the emergence of precision grasping	Infancy 30, 3.

Jones, S.D., Rauwolf, P., Westermann, G.	Computational rationality and developmental neurodivergence	Trends in Cognitive Sciences 29, 4, p. 314-317. 4 p.
Altmann, E.C., Bazhydai, M., Westermann, G.	Curious Choices: Infants' moment-to-moment information sampling is driven by their exploration history	Cognition 254.
Jones, S.D., Jones, M., Koldewyn, K., Westermann, G.	Perception and Cognitive Control in Rationally Inattentive Child Behaviour	Developmental Science 28, 1.
Altmann, E.C., Bazhydai, M., Karadag, D., Westermann, G.	The Infant and Toddler Curiosity Questionnaire: A validated caregiver-report measure of curiosity in children from 5 to 24 months	Infancy 30, 1.
Chen, X., Twomey, K., Hayes, M., Westermann, G.	The limits of curiosity?: New evidence for the roles of metacognitive abilities and curiosity in learning	Metacognition and Learning 20.
Blaydes, H., Gardner, E., Whyatt, D., Potts, S., Dunford-Brown, R., Redhead, J.W., Armstrong, A.	Solar farms as potential future refuges for bumblebees	Global Change Biology 31, 10.
Gallego, J.S., Blaydes, H., Gardner, E., Pywell, R., Whyatt, J.D., Redhead, J.	ECOBRIDGE An expert system for spatial downscaling of land use/land cover change scenario outputs	Environmental Modelling and Software 193.
Blaydes, H., Whyatt, J.D., Carvalho, F., Lee, H.K., McCann, K., Silveira, J.M., Armstrong, A.	Shedding light on land use change for solar farms	Progress in Energy 7, 3, p. 033001.

Delaney, R.G., Ahmed, H.M., Folkard, A.M., M. Salih, M.A., Whyatt, J.D.	Scoping potential dams: utilising remote sensing products to analyse topographic characteristics, runoff-to-storage ratio, and sedimentation—a Port Sudan case study	Sustainable Water Resources Management 11, 2.
Bleasdale, A., Whyatt, D.	Classifying early apple scab infections in multispectral imagery using convolutional neural networks	Artificial Intelligence in Agriculture 15, 1, p. 39-51. 13 p.
Jiang, Z., Rahmani, H., Black, S., Williams, B.M.	3D Points Splatting for Real-Time Dynamic Hand Reconstruction	Pattern Recognition 162.
Vyas, R., Williams, B., Rahmani, H., Boswell-Challand, R., Jiang, Z., Angelov, P., Black, S.	Demonstrable and anatomy-driven knuckle identification via crease map segmentation	Signal, Image and Video Processing 19, 4.
Jiang, F., Hou, X., Ye, J., Xia, M.	Deeper-PINNs: Unlocking the power of deep physics-informed neural networks	Applied Soft Computing 185, B.
Liu, L., Wang, X., Ye, J., Shi, J., Li, Z., Shi, Y., Ye, J.	Residual tensile strength in composite laminates: a deep learning approach	Composite Structures 373.
Bao, H., Wang, R., Yang, Y., Wang, Q., Xu, G., Saafi, M., Ye, J.	Effect of pore water saturation on the supercritical carbonation of cementitious materials	Materials and Structures/Materiaux et Constructions 58, 6.
Zhou, R., Zha, X., Ye, J.	Cross-Floor Vibration Wave Propagation in High-Rise Composite Structures: A Case Study on an Industrial Building	International Journal of Structural Stability and Dynamics

Pang, K., Gu, Z., Ye, J., Hou, X.	Analysis of the effect of microstructural defects on the performance and fracture mechanism of adhesive single lap joints	Composites Science and Technology 266.
Xu, H., Xue, C., Yu, M., Mao, X., Wu, N., Ye, J.	Experimental study on post-fire behavior of precast concrete columns with efficient reinforcement	structures 75
Bao, H., Wang, T., Yu, M., Wang, R., Saafi, M., Ye, J.	Experimental study and numerical modeling of supercritical carbonation of steel fiber reinforced concrete	Construction and Building Materials 476.
Wang, T., Yu, M., Tian, J., Sun, Z., Yu, C., Ye, J.	Residual properties of ultra-high performance concrete containing steel-polypropylene hybrid fiber exposed to elevated temperature at early age	Journal of Building Engineering 99.
Dassekpo, J.M., long, C., Chen, D., Zhang, F., Zha, X., Ye, J.	Performance and characterization of nano-engineered silica waste concrete composite for efficient marine radionuclides remediation	Cement and Concrete Composites 157.
Yuan, E., Yang, J., Saafi, M., Wang, F., Ye, J.	Realization of the physical to virtual connection for digital twin of construction crane	Journal of Industrial Information Integration 44, 15 p.
Wang, T., Yu, M., Liao, W., Yu, C., Ye, J.	Compression performance of ultra-high performance concrete filled steel tube(UHPCFST) columns exposed to elevated temperature during construction	Engineering Structures 326
Dassekpo, J.B.M., Zhong, H., long, C., Dong, Z., Shao, N., Dassekpo, I.S., Wang, D., Ye, J.	Waste glass as a source for green synthesis of mesoporous adsorbent for efficient removal of heavy metals	Microporous and Mesoporous Materials 383.

2. CONFERENCE PAPERS

Author(s)	Article	Conference
Aghasanli, A, Y. Li, P. Angelov	Prototype-Based Continual Learning with Label-free Replay Buffer and Cluster Preservation Loss	Proceedings of the Computer Vision and Pattern Recognition Conference, CVPR-2025 pp. 6545-6554.
L. Pellicer, A. Mariucci, P. Angelov, M. Bukhari, J.G. Kerns	ProtoMedX: Towards Explainable Multi-Modal Prototype Learning for Bone Health Classification	Proceedings of the International Conference on Computer Vision, ICCV 2025 pp. 7357-7366, Oct. 2025, Honolulu, Hawaii.
J. P. Klock, J. P. Pinto, J. Moura, Y. Li, C. Castro, P. Angelov	Vision-based Landing Guidance through Tracking and Orientation Estimation	IEEE/CVF Winter Conference on Applications of Computer Vision (WACV - 2025) March 2025, Tucson, AZ, USA.
Y. Li, Y. Sun, P. Angelov	Complex-Cycle-Consistent Diffusion Model for Monaural Speech Enhancement	The 39th AAAI Conference on AI Philadelphia, PA, USA, 27 Feb – 2 March 2025.
H. Fei, Z. Wang, L. Guo, T. Xue and D. Williams	GMVC: Grip-Force-Modulated Adaptive Velocity Mapping for Intuitive Robot Teleoperation	IECON 2025 – 51st Annual Conference of the IEEE Industrial Electronics Society Madrid, Spain, 2025
Y. He, Z. Wang, L. Yan, T. Xue and H. Fei	Control Methodology Impact on User Cognitive Workload in Gaze-Controlled Robotic Manipulation Tasks	2025 34th IEEE International Conference on Robot and Human Interactive Communication (RO-MAN) Eindhoven, Netherlands, 2025

Wang, Z., Fei, H., Xue, T., Lam, H.K., Guo, Y., Williams, D., Xiao, B., Yeatman, E.M	Multilateral Collaborative Teleoperation with Self- Tuning Authority via Prescribed Performance Control	2025 IEEE 64th Conference on Decision and Control (CDC)
Zhai, Y., Liu, J., Luo, Y., Wang, Z., Guo, Y.	Adaptive Motion Scaling in Teleoperated Robotic Surgery based on Human Intention and Attention	2025 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
Wang, J., Wu, Y., Yuan, L., Zhang, W., Liu, J., Chen, J., Wang, H., Wang, W.	Diffuse and Refine: Intrinsic Knowledge Generation and Aggregation for Incremental Object Detection	Proceedings of the Thirty- Third International Joint Conference on Artificial Intelligence.
Wu, X., Li, C., Atkinson, P.M., Zhang, C., Angelov, P.P., Jiang, R.	K-CloudGAN: Weakly Supervised Cloud Removal towards Automated Satellite Surveillance	IGARSS 2025 - 2025 IEEE International Geoscience and Remote Sensing Symposium, IEEE
Nie, D., Yu, W., Foh, C.H., Ni, Q., Chen, L., Berri, S., Chorti, A., Sun, H.	Efficient Context-Aware Barring Scheme for Low- Latency 2-Step RACH in 5G Networks	IEEE INFOCOM 2025 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPs), IEEE.
Guan, J., Wei, R., You, D., Wang, Y., Yang, R., Wang, H., Jiang, Z.	MESC: Re-thinking Algorithmic Priority and/or Criticality Inversions for Heterogeneous MCSs	2024 IEEE Real-Time Systems Symposium (RTSS), IEEE. 21/01/2025.
Yavari, M., Arellanes, D,	Towards Decentralised Dynamic Reconfiguration of Software Systems	29th International Conference on Fundamental Approaches to Software Engineering
Wenxu Shi, Qingyan Meng, Linlin Zhang, Tingyuan Zhou, Peter M. Atkinson	Background-Aware Prompt Learning for Remote Sensing Scene Classification	IGARSS 2025 - 2025 IEEE International Geoscience and Remote Sensing Symposium

Xiaofan Wu, Changtsun Li,
Peter M. Atkinson, Ce
Zhang, Plamen P. Angelov,
Richard Jiang, K-
CloudGAN:

Weakly Supervised Cloud
Removal towards
Automated Satellite
Surveillance

IGARSS 2025 - IEEE
International Geoscience
and Remote Sensing
Symposium.

Lukasz Pelcner, Leandro
Soriano Marcolino,
Matheus Aparecido do
Carmo Alves, Paula
Harrison, Peter Atkinson

Multi Objective Quantile
Based Reinforcement
Learning for Modern
Urban Planning

Proceedings of the 34th
International Joint
Conference on Artificial
Intelligence (IJCAI 2025).

Amit K. Chopra, Samuel H.
Christie V, Munindar P.
Singh,

Requirement Patterns for
Multiagent Interaction
Protocols

Proceedings of the 31st
International Joint
Conference on Artificial
Intelligence (IJCAI),
28/04/2025, Montreal.

White, L., Shaw, J., Powell, B., Kyi, N.,
Huang, R., Hardy, E., Hughes, G.,
Tilakaratne, D., Hayton, C., Raj, T.,
Truong, V., Ismail, N., Khanijoun, N.,
Sou, A., Man Kwong, G.N., Gadoud,
A., Gatheral, T.

S14 Absence of CT
imaging in AEILD
admissions associated
with higher mortality risk

Thorax, 2/11/2025.

Ferreira, J., Pinto, J., Moura, J.,
Li, Y., Castro, C., Angelov, P.

Vision-based Landing
Guidance through
Tracking and Orientation
Estimation

2025 IEEE/CVF Winter
Conference on
Applications of Computer
Vision (WACV) IEEE

Li, Y., Angelov, P.

Detecting Cross-domain
Deepfake Videos with
Contrastive Prototype
Learning

International Joint
Conference on Neural
Networks.

Alsomali, M., Soriano
Marcolino, L., Porter, B.,
Rodrigues-Filho, R.

Dynamically Increasing
Agents Set-Size in
Bayesian Multi-agent
Multi-armed Bandits
Framework

International Conference
on Autonomous Agents
and Multiagent System,
Cyprus

Dean, P., Ramdhany, R.,
Porter, B.

Render Cost Driven
Caching for Object-Based
Media

2025 IEEE International
Conference on Autonomic
Computing and Self-
Organizing Systems
Companion (ACSOS-C)
IEEE.

Nemeth, Z., Faulkner
Rainford, P., Porter, B.

Reaching Meaningful
Diversity with Speciation-
Novelty in Genetic
Improvement for Software

The Genetic and
Evolutionary Computation
Conference.

Craine, B., Porter, B.

Uniform Projection of
Program Space Geometry
for Genetic Improvement
of Software

The Genetic and
Evolutionary Computation
Conference.

Alsomali, M., Soriano
Marcolino, L., Porter, B.,
Rodrigues-Filho, R.

Decision-Making in
Evolving Environments: A
Bayesian Multi-Agent
Bandit Framework

2025, International
Conference on
Autonomous Agents and
Multiagent Systems.

Uyangodage, L., Nanomi
Arachchige, I., Plum, A.,
Rayson, P., Mitkov

Sinhala Encoder-only
Language Models and
Evaluation

Proceedings of the 63rd Annual
Meeting of the Association for
Computational Linguistics,
(Volume 1: Long Papers) (pp.
8623-8636). Association for
Computational Linguistics.

Lal, D.M., Rayson, P., Peter,
C., Ezeani, I., El-Haj, M.,
Zhu, Y., Liu, Y.

Learning Entities from
Narratives of Skin Cancer

Proceedings of the 31st
International Conference
on Computational
Linguistics: System
Demonstrations, (pp. 20-
27), Association for
Computational Linguistics.

Lal, D.M., Rayson, P., El-Haj,
M.

Hindi Reading
Comprehension: Do Large
Language Models Exhibit
Semantic Understanding?

Proceedings of the First
Workshop on Natural
Language Processing for
Indo-Aryan and Dravidian
Languages, (pp. 1-10),
Association for
Computational Linguistics.

Hettiarachchi, H.,
Ranasinghe, T., Rayson, P.,
Mitkov, R., Gaber, M.M.,
Dola Mullage, D., Tan, F.A.,
Uyangodage, L.

Overview of the First
Workshop on Language
Models for Low-Resource
Languages (LoResLM
2025)

Proceedings of the First
Workshop on Language
Models for Low-Resource
Languages Association for
Computational Linguistics.

AbuHajja, I., Al Mandhari,
S., El-Haj, M., Sibony, J.,
Rayson, P.

The Nakba Lexicon:
Building a Comprehensive
Dataset from Palestinian
Literature

Proceedings of the first
International Workshop
on Nakba Narratives as
Language Resources, (pp.
37-47). Association for
Computational Linguistics.

Newton, R., Rindt, J., Calvo, M.

Visual Ethnography in Policy Design: Mapping Lived Experiences for Place-Based Policies, Imagining Sustainable Developments, Discussing Education Futures

8th International Conference of the Association for Visual Pedagogies, Lancaster

Newton, R., Rindt, J

Regenerative Curriculum: Rethinking Business Education for a Sustainable Future

BAM MKE Teaching Practice Conference 2025, London,

Newton, R., Rindt, J

Regenerative Curriculum: Reimagining Student Engagement Through Place, Practice, and Purpose

BEST Connections: Building community and fostering scholarship, London

Collyer-Hoar, G., Rubegni, E., Tomczyk, B., Baines, A., Gruia, L.

"Suits as Masculine and Flowers as Feminine": Investigating Gender Expression in AI-Generated Imagery

Proceedings of the 2025 ACM Designing Interactive Systems Conference (pp. 915-928).

Collyer-Hoar, G., Castellani, A., Guluzade, L., Tomczyk, B., Bilal, H., Rubegni, E.

Experts Unite, Kids Delight: Co-Designing an Inclusive AI Literacy Educational Tool for Children

IDC '25: Proceedings of the 24th Interaction Design and Children (pp. 852-857).

O'Reilly-Kime, M., Feng, Y., Cipelli, F., Osipova, E., Kender, K., Steeds, M., Clinch, S., Rubegni, E., Rode, J.

Finding Our Joy: Queer Perspectives on HCI Research

CHI EA 2025 - Extended Abstracts of the 2025 CHI Conference on Human Factors in Computing Systems (pp. 631:1-631:10).

Owen, V., Parkman, S., Lindley, J., Rubegni, E.

Design Heuristics for GenAI Educational Platforms

Proceedings of the 24th Annual ACM Interaction Design and Children Conference.

Underwood, L., Edwards, E., Rubegni, E., Hodges, S., Vidler, J., Finney, J.

Toolkit for Educators of Data Science: Using Physical Computing to Support Data Science Education in the Classroom

SIGCSE TS 2025 - Proceedings of the 56th ACM Technical Symposium on Computer Science Education (pp. 1141-1147).

Tsitsimpelis, I., West, A.,
Mathur, K., Jazbec, A., Snoj, L.,
Liu, S., Kennedy, A., Livens, F.R.,
Lennox, B., James Taylor, C.,
Joyce, M.J.

Bayesian Optimization for
real-time γ -localization
measurements with
robotic platforms

EPJ Web of Conferences,
338, Article 07002.

Bazhydai, M., Wong, M.K.Y.,
Altmann, E.C., Jones, S.,
Westermann, G.

No evidence of curiosity-
driven information
selection advantage for
infants' novel word
learning

Paper presented at
Society for Research in
Child Development
(SRCD), Minneapolis,
Minnesota, United States

3. MEETING ABSTRACTS

Author(s)	Article	Publication/Conference
White, L., Maskery, M., Emsley, H.	A case of HMG-Co-A reductase antibody- associated immune- mediated necrotising myopathy presenting with pseudo-pyramidal weakness	Journal of Neurology, Neurosurgery and Psychiatry, 96 (3), ABN Annual Meeting, Liverpool, UK
White, L., Yusuf, O., Knight, J., Lilleker, J.B., Emsley, H.	Development of consensus minimum data sets for three index neuromuscular disorders	Journal of Neurology, Neurosurgery and Psychiatry, 96(3), ABN Annual Meeting, Liverpool, UK
White, L., Biggin, F., Ashcroft, Q., Howcroft, T., Knight, J., Emsley, H., Chandrabalan, V.	Observational medical outcomes partnership (OMOP) Black hole: density of routinely collected data by encounter type	Journal of Neurology, Neurosurgery and Psychiatry, (96/3), ABN Annual Meeting, Liverpool, UK.
White, L., Yusuf, O., Knight, J., Lilleker, J., Emsley, H.	Development of a consensus minimum data set for motor neurone disease	Journal of Neurology, Neurosurgery and Psychiatry, (96/3), ABN Annual Meeting, Liverpool, UK.

White, L., Shaw, J., Powell, B., May Kyi, N., Huang, R., Hardy, E., Hughes, G., Tilakaratne, D., Hayton, C., Ng Man Kwong, G., Gadoud, A., Gatheral, T.	Understanding Mortality in Hospitalised Patients With Interstitial Lung Disease: The Role of Acute Exacerbations of Interstitial Lung Disease	American Journal of Respiratory and Critical care Medicine, 211.
Brearley, S., Walshe, C., Ushakova, A., Kiely, F., Gadoud, A., Sudell, D., Islam, S.N.	Illness trajectories and experiences of receiving immunotherapy for people with advanced cancer: A longitudinal mixed-method study	The 19th World Congress of the European Association for Palliative Care, Helsinki, Finland.
Liu, R., Kremer, S	Shaping Sustainable and Inclusive Futures: Exploring Industry 5.0 and Society 5.0 through research, policy and practice	British Academy of Management (BAM) Conference, 2025.
Brearley, S., Walshe, C., Ushakova, A., Kiely, F., Gadoud, A., Sudell, D., Islam, S.N.	Illness trajectories and experiences of receiving immunotherapy for people with advanced cancer: A longitudinal mixed-method study	Palliative Medicine, 39(2_suppl), Article 127, 19th World Congress of the European Association of Palliative Care, Helsinki, Finland
Goodwin, L., Swithenbank, Z., Irizar, P., Jackson, K., Halsall, L., Puddephatt, J., Parkes, P., Angus, C., Ushakova, A., Knight, J., Lobban, F., Drummond, C., O'Donnell, A.	Is the current UK guidance for treatment of co-occurring substance use and mental health problems being implemented in practice?	European Psychiatry, 68(S1), S308-S308.

4. Books

Author(s)	Book	Publication Details
Monk, S., Cheneler, D	Mobile Robots: Navigation, Control and Sensing	Multidisciplinary Digital Publishing Institute (MDPI). 604 p. ISBN: 9783725833887. Electronic ISBN: 9783725833870. 24/03/2025.
Nwosu, A., Stanley, S., Norris, J., Taubert, M.	Technologies in Palliative Care for Older People	Cham: Springer. 191 p. ISBN: 9783032042767, 9783032042798. Electronic ISBN: 9783032042774. 24/11/2025.

5. CHAPTERS

Author(s)	Article	Publication
Liu, R., James, S.	Students as Partners: an operational system for EDIR-driven teaching and learning practice	M. Šliwa, L. Anderson, K. Black, C. Chaffer, & J. Webb (Eds.), Handbook of Inclusive Learning and Teaching in Business and Management. Cheltenham: Edward Elgar p. 125-141. 17 p.
Ryder, M.	Games Workshop and the Perils of Online Communities	I. C. Batlle, & R. Kowert (Eds.), The Psychgeist of Pop Culture. Warhammer, pp. 50-63, Play Story Press, 13/06/2025.

6. REVIEW ARTICLES

Author(s)	Article	Publication
Glossop, Z., Jones, S., Ahmed, S., Caton, N., Collins, G., Haines, J., Jackson, K., Lodge, C., Machin, K., Marshall, P., Pilgrim, S., Rayson, P., Robinson, H., Salisbury, L., Shryane, N., Staff, J., Stevenson, J., Vega, L., Walsh, A., Wise, S., Lobban, F.	Co-design of Moderator Training: Integrating Knowledge from Forum Moderators	Users and Researchers with the Improving Peer Online Forums (iPOF) Project, 30/06/2025
Collyer-Hoar, G., Rubegni, E.	"Won't somebody please (actually) think of the children?"	AI Ethics for Children: A Scoping Review, 19/08/2025
Halsall, L., Jones, S., Swithenbank, Z., Ushakova, A., Goodwin, L.	Alcohol use across trials of psychological interventions for bipolar: A systematic review and meta-analysis	Journal of affective disorders, 389.

Rowland, C.F., Westermann, G., Theakston, A., Pine, J., Monaghan, P., Lieven, E.	Constructing language: a framework for explaining acquisition	Trends in Cognitive Sciences
--	---	------------------------------

7. TOOLKITS

Author(s)	Toolkit	Publication
Newton, R., Rindt, J., & Calvo, M	Future Scenario Planning Toolkit for Local Policymakers	Heseltine Institute Policy Briefing 3(21), 31/03/2025, Heseltine Institute for Public Policy, Practice and Place.

IV. OTHER PROFESSIONAL ACTIVITIES BY LIRA MEMBERS

VISITING PROFESSORSHIP

Prof. Plamen Angelov

- Visiting Professor, European Space Agency, Frascati, Rome, Italy (2025-2027).

Prof. Peter Atkinson

- Visiting Professor, University of Bristol, UK
- Visiting Professor, University of Southampton, UK
- Visiting Distinguished Professor, Tongji University, Shanghai, China

EDITORIAL ACTIVITY

Prof. Plamen Angelov

- Founding co-Editor in Chief, Evolving Systems Journal
- Associate Editor, IEEE Transactions in Cybernetics
- Associate Editor, IEEE Transactions in Fuzzy Systems
- Associate Editor, IEEE Transactions on AI
- Associate Editor, Soft Computing (Journal)
- Editorial Board Member, Journal of Automation, Mobile Robotics and Intelligent Systems
- Editorial Board Member, Complex and Intelligent Systems (Journal)

Dr David Cheneler

- Special Issue Editor, David Cheneler and Steve Monk, Mobile Robots: Navigation, Control and Sensing, 2nd Edition, Sensors, MDPI, https://www.mdpi.com/journal/sensors/special_issues/T87957QO4G.
- Special Issue Editor, David Cheneler and Zaopeng Dong, Modeling, Guidance and Control of Marine Robotics, 2nd Edition, Applied Sciences, MDPI, https://www.mdpi.com/journal/applsci/special_issues/AVI1EN568R.

Dr Ziwei Wang

- Editor, IEEE Transactions on Industrial Cyber-Physical Systems (Journal).

Dr Jemma Kerns

- Special Issue, Biomaterials and Biosystems (Journal), 2025, Hardy, J. (Guest editor), Kerns, J. (Guest editor) Douglas, I. (Guest editor), Ihtesham Ur Rehman (Guest editor), Joey Shepherd (Guest editor).

Prof. Jun Liu

- Associate Editor, IEEE Transactions on Circuits and Systems for Video Technology (Journal).
- Associate Editor, IEEE Transactions on Neural Networks and Learning Systems (Journal).
- Associate Editor, IEEE Transactions on Industrial Informatics (Journal).
- Associate Editor, Pattern Recognition (Journal).
- Associate Editor, IEEE Transactions on Biometrics, Behavior, and Identity Science (Journal).
- Associate Editor, IEEE Transactions on Image Processing (Journal).

Dr Muhammad Bilal

- Associate Editor, IEEE Transactions on Systems, Man, and Cybernetics: Systems (Journal).
- Guest Editor, Internet of Things (Journal).

Dr Allahyar Montazeri

- Editor in Chief, Journal of Intelligent and Fuzzy Systems.

Prof. Peter Atkinson

- Editor-in-Chief, Science of Remote Sensing
- Associate Editor, Environmetrics

Dr Elisa Rubegni

- Member, Editorial Team, British Journal of Educational Technology

ORGANISATION OF SCIENTIFIC CONFERENCES, WORKSHOPS, SEMINARS, LECTURES, & COMMITTEE MEMBERSHIP

Prof. Plamen Angelov

- Co-Chair of Workshops PerConAI 2025, <https://easychair.org/cfp/PerConAI-2025>.
- Co-Chair of the Program Committee of IJCNN-2027, Cape Town, South Africa.
- Senior Program Committee Member of The 40th Annual AAAI Conference on Artificial Intelligence, Singapore.

Dr Ziwei Wang

- Organiser, 2025 ICRA Full-day Workshop on Human-Centric Multilateral Teleoperation, 23/05/2025, Atlanta, United States.
- Organiser, IROS 2025 half-day workshop "4th Sensorimotor-Augmented Teleoperation: Human-interaction-oriented Paradigm and Real-world Concerns", 20/10/2025, Hangzhou, China.

Dr James Kerns

- Member of Programme Committee, UK Society for Biomaterials Conference 2025.

Dr Richard Jiang

- Member of Programme Committee, The 3rd World Conference on eXplainable Artificial Intelligence, 9/07/2025 - 11/07/2025, Istanbul, Turkey.

Dr Allahyar Montazeri

- Member, Programme Committee and Chair, Industry Panel Discussion session, ACE Industry Workshop on the Role of Automatic Control in Future Mobility, 15/04/2025, Cranfield, United Kingdom.

Dr Carolyn Downs

- Event Lead, Workshop on AI and the Future of Marketing: Incorporating Responsible AI Innovation, 12/11/2025, Lancaster.

Prof. Peter Atkinson

- Co- Chair, Conference on Spatial Statistics: At the Dawn of AI, July 15-18, 2025, Noordwijk. The Netherlands.

Dr Damian Arellanes

- Member, VinFuture Prize (Event)

Dr Alexandre Benedetto

- Member, Quantum Technology Centre (Organisational unit)
- Organiser, Guest lecture by Dr Jennifer Tullet (University of Kent, UK), 3/07/2025.
- Organiser, Bioimaging Special Seminar, Guest Lecture from Dr Hari Shroff from the HHMI Janelia Farms, Ashburn, USA, 27/03/2025.

Prof. Hedley Emsley

- Co-organiser, CLOVER Research Priority Setting Workshop I, 21/05/2025.
- Co-organiser, CLOVER Research Priority Setting Workshop II, 23/06/2025.
- Co-organiser, CLOVER - Collaboration for Late-Onset and Vascular Epilepsy Research - PPI Workshop, 11/04/2025.

Dr Amy Gadoud

- Chair, NIHR, 1/04/2024 - 1/04/2027.
- Member, Royal College of Physicians, 04/2023 →

Dr Rebecca Liu

- Chair, Professional Development Workshop, British Academy of Management (BAM) 2025 Annual Conference, 1/09/2025 - 5/09/2025, Canterbury, United Kingdom.

Dr Mike Ryder

- Organiser, Warhammer Conference 2025, 26/09/2025 - 27/09/2025, Heidelberg, Germany.

Dr Anastasia Ushakova

- NIHR Statistics Conference Organising Committee

Prof. Gert Westermann

- The 9th Lancaster International Conference on Infant and Early Child Development, 27/08/2025 - 29/08/2025.

Seminars Organised:

- Speaker: Dr George Amarantidis Koronaios, Senior Customer Success Engineer, MathWorks, “Teaching with MATLAB and Simulink”, 23/05/2025.
- Speaker: Dr Haobo Li, Lecturer, University of Dundee as a Lecturer, “Multimodal Sensing for Human Health Monitoring”, 19/03/2025.
- Speaker: Dr. Angela Faragasso, Finger Vision, Japan, “When Robots Begin to Feel: The Art and Challenge of Touch Sensing”, 20/10/2025.
- Speaker: Dr Chao Zeng, University of Liverpool, UK, “Control and Learning for Robotic Manipulation, 20/10/ 2025.
- Speaker: Prof. Hao Su, New York University, USA, “Versatile Wearable and Surgical Robots: From High-Torque Motors to Learning in Simulation”, 20/10/2025.
- Speaker: Dr Xiaoxiao Cheng, Manchester University, UK, “Human impedance modulation to improve visuo-haptic perception”, 20/10/2025.
- Speaker: Prof. Jee-Hwan Ryu, KAIST, Keynote Speech, 20/10/2025.
- Speaker: Dr Guochao Bai, Changing Robot Ltd, China, “Changingtek Robotics: Exploration of the Industrialization of Dexterous Hands and Embodied Intelligence”, 20/10/2025.
- Speaker: Prof. Eiichi Yoshida, Tokyo University of Science, Japan, “Task Execution and its Evaluation by Teleoperation using Robot-Agnostic Adaptive Framework”, 20/10/ 2025.

INVITED TALKS, LECTURES, & PRESENTATIONS

Dr Ziwei Wang

- Speaker, 6th International Conference on Internet of Things, Artificial Intelligence and Mechanical Automation, (IoTAIMA 2025), 22–24/08/2025 in Hangzhou & Dalian, China.
- Speaker, ACE Network - Annual Forum 2025, 24/03/2025, Oxford, UK.

Dr Allahyar Montazeri

- Speaker, 11th IFAC Conference on Manufacturing, Modelling, Management, and Control, 1/07/2025, Trondheim, Norway.
- Speaker, 8th Annual IEEE UK and Ireland Robotics and Automation Society Chapter Conference, 21/02/2025, Belfast, United Kingdom.

Dr Muhammad Bilal

- Speaker, “Smart Content Networking”, Nanjing University of Information Science & Technology, China.
- Speaker, IEEE INFOCOM 2025.

Dr Alexandre Benedetto

- Speaker, British Neuroscience Association (BNA) Training Academy Event, Model Systems in Neuroscience Research - the what, why and when?, 5/11/2025.
- Participant, Quantum Innovation Workshop, 23/07/2025.
- Participant, Zeiss Arivis Pro Workshop, 10/07/2025.
- Invited Talk, "The bright side of death", Keele University, United Kingdom, 8/05/2025.
- Invited Talk, C. elegans to study health & diseases, National Mouse Genetic Network, United Kingdom, 7/02/2025.
- Presenter, ECR training course, Lancaster, UK, 16/01/2025.

Prof. Hedley Emsley

- Invited Talk, Harnessing data to solve NHS capacity challenges: a neurology perspective, Office for National Statistics, United Kingdom, 27/11/2025.

Dr Amy Gadoud

- Invited Talk, Moonshot 2025 - the inaugural NUOC Northwest Conference, Manchester, UK, 5/04/2025.

Dr Naomi Jacobs

- Invited Talk, Speculative design for digital innovation and its use for global health, 12/02/2026, Warwick Centre for Global Health.
- Speaker, Fan Studies Network North America Conference 2025, 23/10/2025.
- Participant, Transition Templates: AI & Digital – Pathways to Net Zero+ (Symposium), , 12/09/2025, Bath, United Kingdom.
- Speaker, Lancaster and Morecambe Chamber of Commerce Breakfast Networking, 4/09/2025.
- Participant, SPRITE+ Expert Fellows meeting (Symposium), 6/05/2025 - 7/05/2025.
- Consultant, Imagination Lancaster researchers' response to UK Government consultation on copyright and artificial intelligence, 24/02/2025, UK Government.

Dr Yu Jiang

- Speaker, Euro Working Group on Transportation 27th Annual Conference, 1/09/2025 - 3/09/2025.
- Speaker, Conference on Advanced Systems in Public Transport (CASPT), 30/06/2025 - 4/07/2025, Kyoto, Japan.
- Speaker, XII Triennial Symposium on Transportation Analysis, 22/06/2025 - 27/06/2025, Onna, Japan.

Prof. Rebecca Killick

- Speaker, UK Society for Biomaterials Conference 2025

Dr Christopher Kirkbride

- Speaker, EURO 2025 - 34th European Conference on Operational Research, 22/06/2025 - 25/06/2025, Leeds, UK.

Dr Thomas Keegan

- Speaker, Bright Club, 8/11/2025, Research and Enterprise Services.

Dr Rebecca Liu

- Keynote Speaker, The 2nd International Education Management Agency (IEMA) Global Event, 30/08/2025.
- Invited Talk, Future Sustainability in Business From West to East: Industry 5 and Society 5, 22/01/2025, Pentland Centre.
- Invited Talk, Industry 5 and Society 5 A study from the global politics and socio-humanity perspective, 20/01/2025, Eliwise Academy, United Kingdom.

Dr Amarachukwu Nwosu

- Speaker, Research for Palliative Care Clinicians - Liverpool" (RESPACC-L), 10/12/2025, Liverpool, United Kingdom.
- Speaker, Launch of the Palliative Care Journal Club Toolkit, 3/12/2025, Liverpool, United Kingdom.
- Speaker, Beyond the page: how journal clubs help deliver evidence-based practice, 26/11/2025, Hospice UK National Conference 2025
- Speaker, Networking event of Palliative Care Research Network North West (PalCaRe NW), 10/09/2025.
- Speaker, Journal clubs in palliative care: a Toolkit to support research activity in hospices, 9/09/2025, NIHR Applied Research Collaboration ARC NWC - ARCFEST: Making an Impact. ARCFEST: Making an Impact.
- Speaker, Special Interest Forum in Technology and Digital Innovation in palliative care, 23/07/2025, All-Ireland Institute of Hospice and Palliative Care (AIHPC) Technology and Palliative Care Research Special Interest Group, Ireland.
- Speaker, Writing a research question. Research in Palliative Care Clinicians Liverpool (RESPACC-L), 7/07/2025, Woodlands Hospice, Liverpool, United Kingdom.
- Speaker, Journal clubs in palliative care: a Toolkit to support research activity in hospices, 18/06/2025, Hospice UK, United Kingdom.
- Invited Talk, Speaker, Artificial Intelligence & Design in Palliative Care: Opportunities and Challenges, 16/05/2025, The 17th Kaleidoscope International Palliative Care Conference: Kaleidoscope International Palliative Care Conference, Dublin, Ireland.
- Speaker, Facilitating research in end of life care, 29/04/2025, 29/04/2025
- Invited Talk, Digital Health and Palliative Care, Leeds Academic Unit of Palliative Care (AUPC) University of Leeds, 24/04/2025.
- Invited Talk, Moonshot 2025 - the inaugural NUOC Northwest Conference, 5/04/2025, Manchester, United Kingdom
- Speaker, Ethical challenges of Artificial Intelligence (AI) technology in Hospice & Palliative Care, Technology Leaders Conference. Pendulum Conference Centre and Hotel in Manchester, 4/02/2025, Hospice UK, United Kingdom.

Dr Jekaterina Rindt

- Speaker, Powered by Place: Regional Innovation & Ecosystem Resilience, 24/06/2025, Lancaster, UK.

Dr Anastasia Ushakova

- Speaker, EDT Headstart Summer School, 28/07/2025 - 31/07/2025.

Dr Mike Ryder

- Invited Speaker, IVF and (in)fertility: insights from marketing and linguistics, 13/11/2025, Human Fertilisation and Embryology Authority (HFEA), United Kingdom.
- Speaker, Motive8 College, Bradford, 8/09/2025.
- Invited Speaker, Ethics, Philosophy and Religion Conference, 1/07/2025, Clitheroe, United Kingdom.
- Speaker, Doing Interdisciplinary Research on Markets and Marketing, 12/03/2025, Lancaster.

Prof. Gert Westermann

- Contributor, No evidence of curiosity-driven information selection advantage for infants' novel word learning, 10/01/2025, Budapest CEU Conference on Cognitive Development, Budapest, Hungary.

SPECIAL SESSION ORGANISED & CHAIRED

Prof. Plamen Angelov

- Deep Vision in Space, IJCNN-2026 within WCCI-2026, Maastricht, The Netherlands.
- Deep Vision in Space, SMC-2025, Kuching, Malaysia.

TUTORIALS PRESENTED AT MAJOR INTERNATIONAL CONFERENCES

Prof. Plamen Angelov

- Rethinking Interpretability and Adaptivity of Deep Learning, 24th International Conference on Machine Learning and Applications, ICMLA 2025, Boca Raton FL, USA, 03-05/12/2025.

SPECIAL EVENTS & EXHIBITIONS

Dr Amjad Fayoumi

- Good Growth Programme, Final showcase event for UKSPF Burnley Good Growth Programme, 06/03/2025, Lancaster, UK.

Dr Allahyar Montazeri

- UK-RAS Network Showcase, Exhibiting and organising a stand with live demo of the robotics kits, 11/09/2025, Nottingham, UK.
- 32nd Women in Nuclear Global Annual Conference, Exhibiting and organising a stand with live demo of the robotics kits, 15/07/2025, London, UK.

Dr Elmira Yadollahi

- Explore Week (Light Up Lancaster) - Robots in Action, 29/10/2025 - 31/10/2025, Organisers: Elmira Yadollahi and Suneesh, S.

Dr Alexandre Benedetto

- Organiser, Zeiss Cell Discoverer 7 Demonstration (Exhibition), 4/04/2025 - 10/04/2025, Lancaster, UK.

Dr Naomi Jacobs

- Organiser, The Hospital in 2125: Imagining Healthcare Futures (Festival of Social Sciences 2025)

Dr Jekaterina Rindt

- Consultant, Civic Leadership module - case study Uni 5 Place, 19/12/2025.
- Consultant, Future Scenario Planning for local policymaking: lessons from Lancashire, 31/03/2025, Heseltine Institute for Public Policy, Practice and Place, United Kingdom.

Prof. Gert Westermann

- Contributor, Lab Tour and Knowledge Exchange for Early Years Education Practitioners, 5/09/2025, Evergreen Early Years, United Kingdom.
- Contributor, ICDL Family Fun Day, 26/07/2025.

Dr Bryan Williams

- Speaker, H-Unique Demo [DUUK Fringe Festival], 2/04/2025, Digital Universities UK, Lancaster, United Kingdom.

