

**From:** [DCE Programme](#)  
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**Subject:** DCE Community Update July 2024  
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# DCE Community Update

July 2024



## News

### DCE Global Outreach | IEEE CAI 2024

This month, Turing's Data-Centric Engineering (DCE) team visited Singapore to promote data-centric engineering, strengthen its presence in the region, and foster new collaborations.

As part of the [IEEE Conference on AI \(IEEE CAI'2024\)](#), Turing's DCE Programme in collaboration with [DCE Journal](#), organised the workshop "[Crafting Data-Centric Engineering](#)". This workshop aimed to bring together the engineering and machine learning communities to discuss data-centric engineering through contributed sessions, keynote talks, panel discussions, and networking opportunities.

The trip also provided an opportunity for the DCE team to build on existing connections in Singapore and further consolidate research collaborations with local institutions. The DCE team met with key stakeholders in academia and industry, particularly from the maritime sector, to discuss major challenges in the field, focusing on AI in maritime.


These discussions also explored how a strategic partnership between The Alan Turing Institute and Singapore institutions could help address some of these challenges.

### Blog | Can AI Super-charge the Potential of Solar Power?


Solar power is an essential part of the

UK's energy mix, providing a sustainable source of electricity to reach our climate goals. Read this blog post to hear about how the Turing and product lab [Open Climate Fix](#) are working together on a project to predict cloud cover to help optimise integration of solar energy into the electricity grid.

Read More



# Events




## Conference | ICMR 2024

Glasgow | 28-30 August 2024

The Department of Design, Manufacturing and Engineering Management at the [University of Strathclyde](#) will host the 21st [International Conference on Manufacturing Research](#) (ICMR2024). With the accelerating globalisation of manufacturing, this conference will bring researchers, academics, and industrialists together to share their vision, knowledge, and experience, and discuss emerging trends and new challenges.

Event Website




## Summit | International Composites Summit

Milton Keynes | 4-5 September 2024

The [International Composites Summit](#) (ICS) is the UK's only 100% composites focused exhibition. ICS brings together industry leaders, researchers, and innovators from across the globe to explore composites in key sectors including Energy, Marine, Construction, Aerospace, amongst others.


Event Website



## Workshop | BayesAI

Lancaster University | 23-26 September 2024

This workshop, organised by [Lancaster](#)



## Save the Date | Machine Learning for Fluid Dynamics Workshop

London | 2-4 April 2025

University, seeks to catalyse research at the interface of Bayesian statistics and artificial intelligence. Themes include: Generative modelling; Physics-informed machine learning; Monte Carlo methods in machine learning; and their applications.

Event Website

Save the date for this upcoming conference that aims to bring together researchers from across Fluid Mechanics, Applied Mathematics, and Machine Learning/computer science communities.

Event Website



## Seminars

### Phi-ML meets Engineering Seminar Series | Thermodynamic computation and applications to machine learning

19 September 2024 | 13.00-14.00

This seminar will discuss computational speedups over established digital algorithms and applications to large scale machine learning training through thermodynamic natural gradient descent, as well as its connections to uncertainty quantification.

Sign Up

### Royal Academy of Engineering | Decarbonising equitably, effectively and democratically

5 September 2024 | 18.00-19.00

How do we make sure we decarbonise our energy systems at pace while also ensuring the public have a voice? This talk will explore the need for and role of the public dialogue in informing the energy decarbonisation challenge in the UK.

Sign Up



## Jobs

### Lead Engineer

#### Complex Defence

University of Sheffield | Advanced Manufacturing Research Centre (AMRC)

This role will play a key part in progressing the uptake of a range of digital manufacturing technologies by working closely with key collaborators in the UK and internationally.

Deadline - 7 August 2024

Apply

### Research Associate

#### Humanities and Social Sciences in Human-AI Teaming

The Alan Turing Institute | Data-Centric Engineering Programme

This post will conduct research on the fundamentals of human-AI collaboration and interaction, and introduce humanities and social science perspectives to the study of human-AI teaming.

Deadline - 7 August 2024

Apply



## Data-Centric Engineering Journal

### Call for Papers

#### High-performance Intelligent Manufacturing Driven by Industrial Big Data

The [DCE Journal](#) in partnership with the Industrial Big Data & Intelligent Systems Branch of the [Chinese Mechanical Engineering Society](#) are publishing a special collection that aims to further exchange the discussion on the latest research and application progress across industrial big data related technologies.


More Information


## Webinar Recording

### Reinforcement Learning in Building Energy Management: Challenges and Future Directions

Reinforcement Learning (RL) has emerged as a prominent approach to meet challenges in building energy management. [Prof Zoltan Nagy](#) provides an introduction to RL in the context of building energy management, offering an overview of current research, pinpointing challenges, and highlighting opportunities for future research directions.

Webinar Recording








DCE Programme Website


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