DCE Community Update May 2024
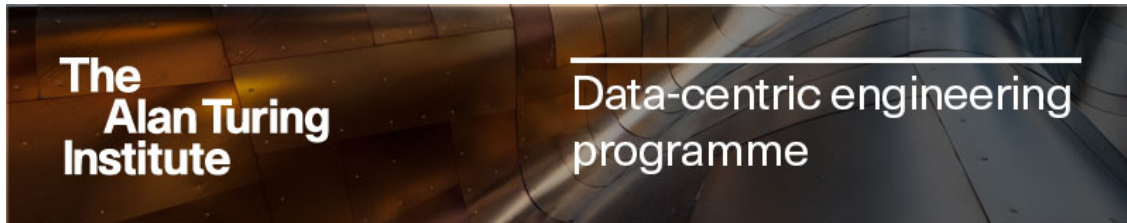
DCE Programme <dceprogramme@turing.ac.uk>

Thu 30/05/2024 3:46 PM

To:Alice Budden <abudden@turing.ac.uk>
Cc:DCE Programme <dceprogramme@turing.ac.uk>

Click here if you are having trouble viewing this message.

If you're a Turing Slack user follow #data-centric-eng for information and reminders about DCE activity between these monthly updates. To submit any items in future updates please contact Alice Budden.

News

AI for Good | Global Summit
Geneva, Switzerland, 29-31 May 2024
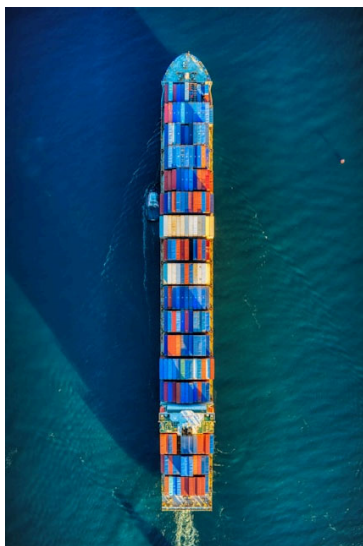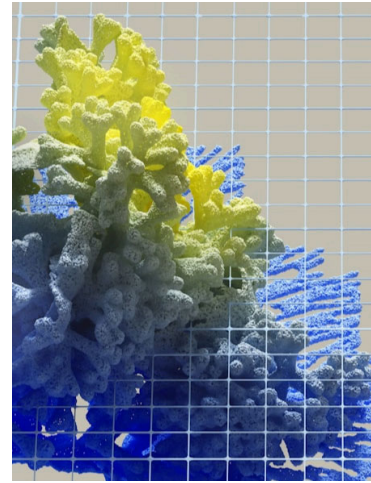
The goal of AI for Good is to identify practical applications of AI to advance the United Nations Sustainable Development Goals and scale those solutions for global impact. It's the leading action-oriented, global & inclusive United Nations platform on AI.

This year's summit is already underway, but you still have time to register to watch some of the talks online. Head over to the website to see the full programme, and if you've already missed your favourite talk, head over to YouTube where you'll be able to re-watch previous sessions.

The Royal Society Report Launch | Science in the Age of AI

This week The Royal Society launched a report exploring how AI technologies, such as deep learning or large language models, are transforming the nature and methods of scientific inquiry. It also explored how notions of research integrity; research skills or research ethics are changing, and what the implications are for the future of science and scientists.

Follow the links for more information and to read the full report.

SNAME | Informed Workforce Article

Technology is moving at a faster pace than ever before, and the impact of this on the workforce is being seen across industries. Professor Adam Sobey (Programme Director - DCE Programme) and Kimberly Tam (Theme Lead for Marine and Maritime) have written an article on creating an informed workforce in the Maritime industry to tackle these rapidly evolving environments. This article has been published in the (mt) Magazine of The Society of Naval Architects and Marine Engineers (SNAME) and discusses what it means to prepare naval architects and marine engineers for the data-centric future.

If you're a subscriber of the (mt) Magazine, you can read the full article on their website.

London Data Week | First Wave of Events Added!
Several Locations, 3-9 July 2024

After the success of last year's London Data Week, it's back for a second year! Co-organised by The Alan Turing Institute and London Office of Technology and Innovation (LOTI), London Data Week aims to bring together the people of London for this citywide festival about data to inspire and empower them to be part of shaping the city's future.

The first wave of events are now open for registration, so be sure to check out what's coming up and register to secure your place now.

Events

Innovate UK BridgeAI | Building AI Startup-Industry Partnerships Workshop
Digital Catapult HQ, 20 June 2024

As artificial intelligence (AI) revolutionises businesses with unprecedented speed, the pivotal factor for unlocking growth and innovation lies in fostering successful collaboration between entrepreneurs and industry end users. This workshop aims to cultivate a deep understanding of the value of working together, while also addressing the technical and business barriers that often impede such partnerships.

If this sounds of interest, register for the event here.

IET President's AI Roadshow | Promoting Equality Diversity and Inclusion Across Engineering and Technology
Online, 6 June 2024

The Institution of Engineering and Technology (IET) are hosting interactive webinars with their president, Dr Gopichand Katragadda. They want your expert opinion on the role IET should play in ensuring high standards of ethics when designing, delivering, and using AI tools.

The next session is aimed at exploring what initiatives they should consider to promote equality, diversity, and inclusion across engineering and technology, specifically in data practices and ethical AI development.

Follow the link to find out more and register for a session.

Seminars

AI for Decarbonisation: Unlocking Domestic Decarbonisation
Online, 17 June 2024

The next webinar in the AI for Decarbonisation's Virtual Centre of Excellence (ADViCE) Webinar series will be exploring the potential AI solutions for tackling challenges in decarbonising domestic heating. Decarbonising homes requires changes to both heating systems and consumer behaviours in every home in the UK, and tackling these challenges are key for successfully meeting the UK's Net Zero targets.

Come along to hear insights from those with direct experience in installing low carbon heating systems, as well as organisations applying AI solutions to help decarbonise homes.

Follow the links for more information on this webinar and how to register.

Rigour, imagination and production in data-driven science | Public Lecture
King's College London, 20 June 2024

The steady expansion in the availability and reach of observational data has prompted much-needed introspection into data analysis practice. This public lecture will feature three internationally-standout scientists from academia and industry. Talks will cover how to challenge and interrogate in data-based research; techniques for imagining uncertainty and variation in observational data; and how data-driven analyses can be put into production.
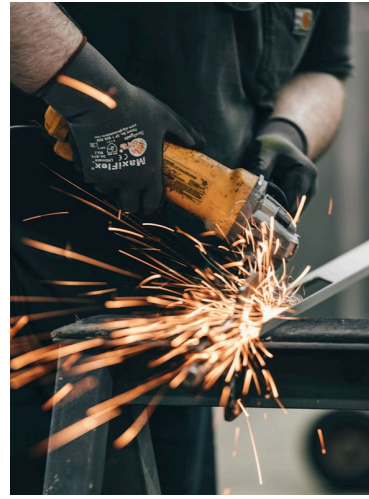
Follow the link to find out more and register for the event.

A World of Risk: The Unheard Voices and What we can Learn from Them | Thomas Ashton Institute Lecture
University of Manchester & Online, 20 June 2024

The Lloyd's Register Foundation World Risk Poll is the first global study of worry about, and harm from, risks to people's safety. The latest edition includes the views of more than 145,000 people in 143 countries. From safety at work to artificial intelligence, climate change and resilience: come and find out how the world percieves risk, and how this data is being used to help make the world a safer place.

Follow the link to find out more and register for the event.

Physics-informed Machine Learning (Φ-ML) Meets Engineering | Seminar Series

6 June, 13:00-14:00 - Logan Wright, Training physical systems like neural networks

How to join, talk abstracts, and details on future seminars can be found on the seminar webpage. If you missed a talk that peaked your interest, be sure to check out YouTube where you'll find several recordings of past presentations from this series available to watch back.

Publications

How AI is developing the future of national security protocols
Kimberly, Tam. Karve Industry Insights, May (2024).

Cyber security and cyber defence typically have two sides: Attacker and Defender. This article explores how each side continues to try and get the upper hand, and how AI, as a newer tool available, is much more than a singular tool. The article delves into how AI shapes the current cyber battle ground, how to balance strategy versus results when implementing AI, and things to consider when ensuring the resilience and security throughout the AI lifecycle.

To read the full article follow the link here.

Data-Centric Engineering Journal

Call for Papers | Data-driven Geomechanics and Geotechnical Engineering

This special collection aims to provide a forum on the recent advances of data science and artificial intelligence that could potentially support discovery of new physics, advance the knowledge of geoscience and geoengineering, and provide reliable engineering solution to address broad and unsolved problems in geoscience and geoengineering.

Follow the link for **more information** and how to submit.

Submission deadline 2 September 2024

Jobs

DCE jobs at the Turing

Research Associate - Development of an AI Data Engineer
DCE Programme

The Data-Centric Engineering programme are looking to expand their team of researchers working on the development of AI that can automate the data pipeline. Developing data models for an individual product is increasingly possible, but scaling this up to work in a practical sense can be an issue. This project will aim to address these issues by exploring how to automate the process.

Closing date: 4 June 2024
Full information and how to apply.

DCE jobs elsewhere

Research Fellow - Robust Learning: Uncertainty Quantification, Sensitivity and Stability
University of Warwick

This 3-year project involves developing methods, analysis and numerical approaches to graph-based learning with particular interest in high dimensional settings and Bayesian approaches. This project will look at robustness and detection of rare events with the opportunity to develop new methods.

Closing date: 11 June 2024
Full information and how to apply.

Please e-mail Alice Budden with any external opportunities you wish to be circulated in future DCE Newsletters.

Notifications

Communicating about your project

The DCE programme is always looking to communicate the impact of its projects and research activity. If your project is achieving some interesting real-world applications or impact, and you are interested in developing this further, please contact Francisco Gomez Medina, DCE's Research Application Manager.

If you are interested in communicating your research to a wider audience, or would like more information on ways to get involved with the DCE Community, please contact Gabin Kayumbi, DCE's Senior Community Manager.

The Turing hosts a Blog and a Podcast and publishes regular Impact Stories on activity. The Turing Communications team can also help support you on any related media activity.

Attribution in Publications

A reminder that all publications resulting from work on the programme should acknowledge the Lloyd's Register Foundation and The Alan Turing Institute Data-Centric Engineering Programme. More detailed information can be found under 'Acknowledging the Turing in Publications' on the Turing Intranet, or by contacting publications@turing.ac.uk.

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