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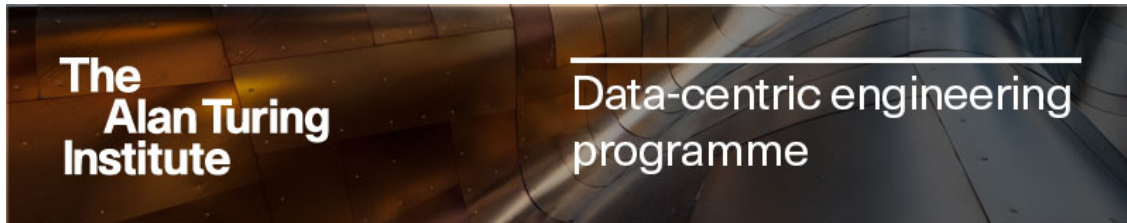
DCE Programme <dceprogramme@turing.ac.uk>

Fri 26/04/2024 3:53 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

Ofgem Call for Input | Use of AI within the Energy Sector

Ofgem are seeking views on their proposals for how AI can be used to responsibly and safely drive innovation within the energy sector. Responses to this call for input will be used to help Ofgem develop their regulatory strategy for the use of AI within the energy sector both now and in the future.

If you work within the energy sector, AI policy, academia, or if you are an AI developer - have your say now by completing the online survey.

Deadline for input - 17 May 2024

London Data Week | Apply to Participate!
Monday 3 to Friday 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.

If this sounds of interest to you, apply to participate as an event organiser or a volunteer! And don't forget to keep an eye on the London Data Week as new events are added to the agenda, there's also lots of webinars already organised, so follow the links to find out how to register for an event.

Turing Way Practioners Hub | Experts in Residence
Expressions of Interest Now Open!

The Turing Way Practitioners Hub, part of the Innovate UK BridgeAI programme, is a 16-24 week programme for organisations and SMEs to help them understand industry best practices for adoption of data science and AI.

It is inviting Expressions of Interest from organisations and SMEs to join their second cohort of Experts in Residence. With a focus on implementing best practices in data science and AI initiatives in their own organisations.

If this sounds of interest to you, find out more and apply now!

Deadline 30 May 2024.

Events

Robotics and Automation | For a Sustainable Future
Manufacturing Technology Centre, 14-15 May 2024

This free event is hosted by the Manufacturing Technology Centre, and is aimed at anyone interested in discovering new manufacturing technologies and exploring the future of robotics and automation in UK industry.

This event will be hosting an array of activity, including talks by industry experts, educational workshops, opportunities to discover innovative technologies, as well as ample time for networking.
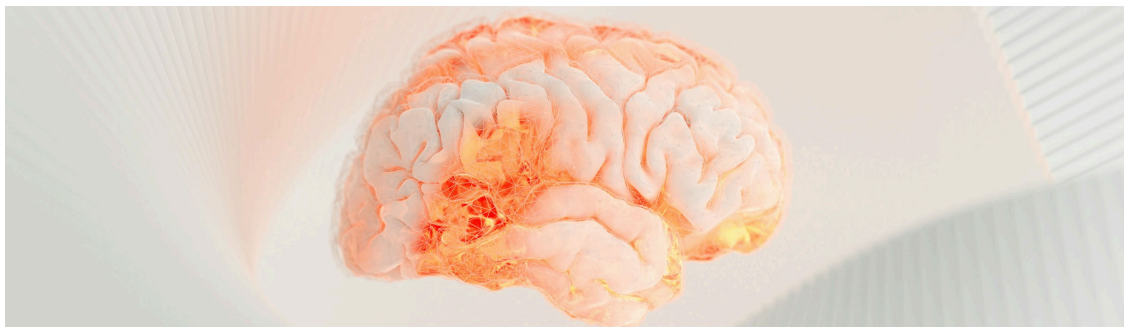
If this sounds of interest, register for the event here.

Glasgow Tech Week | Enabled by Space
University of Strathclyde, 14 May 2024

This in-person event, hosted by the University of Strathclyde Space Cluster, as part of Glasgow Tech Week, will feature a number of presentations from industry and academia on new and emerging technology advances to Scotland's growing space sector.

Follow the links to register for this event, and to find out more about Glasgow Tech Week and see the full list of events taking place throughout the week.

DCE Workshop at IEEE Conference on AI 2024
25 June 2024, Singapore

Registration for the Data-Centric Engineering workshop at IEE Conference on AI is open!

The workshop entitled 'Crafting Data-Centric Engineering' will bring together engineering and machine learning communities to define Data-Centric Engineering through keynote talks and contributed sessions, panel discussions, poster presentations and networking.

If this sounds of interest to you, be sure to follow the links to register for the workshop and to register for the conference.

In addition, the organisers are delighted to be partnering with the DCE Journal, and would like to invite contributions in the form of extended abstracts for presentation at the workshop. Follow the link for more information on the call for papers and how to submit.

Seminars

AI for Decarbonisation: Decarbonising Manufacturing Inputs

Manufacturing process are a significant contributor to global green house gas emissions, and the task of decarbonising these processes is often complex and costly. AI for Decarbonisation's Virtual Centre of Excellence (ADViCE) is hosting a webinar to highlight the different decarbonisation challenges present within the manufacturing sector as well as tools that could be used to tackle them.

Come along to hear from some cutting-edge AI startups that have already made significant contributions to decarbonising manufacturing inputs.

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

Operationalising Ethics in AI | Training Course

Several free small-group virtual training courses, have been organised as part of the BridgeAI programme, with the aim to help you implement ethics in AI.

If you're an SME within the Transport, Construction, or Agriculture sector, apply now to secure your spot! You'll have the opportunity to expand your professional network, receive expert guidance, and dive into some real world applications to allow you to champion ethical AI.

Follow the links to find out more and how to register.

Physics-informed Machine Learning (Φ-ML) Meets Engineering Seminar Series: upcoming dates (online)

16 May, 13:00-14:00 - Tobias Heinrich Nagel, Kalman-Busy-Informed Neural Network for System Identification

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.

Data-Centric Engineering Journal

Blog | Why the Built Environment Needs Innovations in Data-Centric Engineering

Head over to the Data-Centric Engineering Blog series to read Dr Ramaseshan Kannan's (Head of Computational Science at Arup) discussion on how, despite first appearances, the built environment requires rapid developments in Data-Centric Engineering.

Follow the links for the full blog post and to read other blog entries from this series.

Publication Highlight

A spectrum of physics-informed Gaussian processes for regression in engineering - *March 2024*

Elizabeth J. Cross, Timothy J. Rogers, Daniel J. Pitchforth, Samuel J. Gibson, Sikai Zhang and Matthew R. Jones.

The availability of monitoring data from engineering structures offers many opportunities for optimizing their design and operation. The ability to be able to predict the current health state of a structure, for example, opens the door to predictive maintenance and, in turn, enhanced safety and reduced cost and waste. Currently most attempts at harnessing knowledge within collected datasets are reliant on those data alone, limiting the potential of what can be done to how much of the entire life of a structure is captured. This paper demonstrates how using physical knowledge within a machine learning approach can improve predictions considerably, reducing the burden on expensive data collection. A range of approaches allow differing levels/types of physical insight to be incorporated.

To read the full open access article follow the link here.

Jobs

DCE jobs at the Turing

(Senior) Data Scientist
Defence and Security Programme

The Defence and Security programme are looking to expand a high performing team of research engineers working on real-world problems aligned with securing the UK. This team operates at the intersection of mathematics, engineering, and computing, and works in close collaboration with the Turing's National Security partners.

Closing date: 26 May 2024
Full information and how to apply.

DCE jobs elsewhere

Senior Environmental Data Scientist
OceanOS

OceanOS are seeking a highly skilled Senior Data Scientist with strong experience in the marine environmental sciences sector to join their team. The successful candidate will play a crucial role in informing environmental impact assessments and support decision-making for sustainable offshore wind development.

Full information, and how to apply.

Assistant Professor (Research Focus) in AI Safety
WMG, University of Warwick

The Verification and Validation (V&V) team at WMG are looking for a talented AI researcher to join their team developing safe and reliable AI systems for CAV. This post would have the opportunity to work on a variety of Autonomy in transport projects, including an EU horizon funded programme in collaboration with industry and academic partners.

Closing date: 22 May 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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