About Turing

Headquartered in the British Library, London, The Alan Turing Institute is the national institute for data science and artificial intelligence since 2015. The institute is named in honour of Alan Turing, whose pioneering work in theoretical and applied mathematics, engineering and computing are considered to be the key disciplines comprising the fields of data science and artificial intelligence.

The Turing has three ambitious goals:

- Advance world class research and apply it to real-world problems
- Train the leaders of the future
- Lead the public conversation

We are here to help make the UK the best place in the world for data science and AI research, collaboration and business

About the Edinburgh Centre for Robotics

The Edinburgh Centre for Robotics (ECR) is a £120 million joint venture between Heriot Watt University and the University of Edinburgh, supported by EPSRC, Industry and the Universities.

It captures the expertise of 30 world leading investigators from 12 cross-disciplinary research groups and institutes across the School of Engineering and Physical Sciences, the Department of Computer Science at Heriot Watt University and the Schools of Informatics and Engineering at the University of Edinburgh.

The EPSRC Centre for Doctoral Training in Robotics and Autonomous Systems (CDT-RAS), hosted at the Edinburgh Centre for Robotics, is leading the UK effort to realise its industrial potential in this revolution by producing the new generation of highly skilled researchers, trained to take a central role through technical skill coupled to industry and market awareness.

About Anne Rowling Institute

The Anne Rowling Regenerative Neurology Clinic is a charitable University of Edinburgh clinical research facility. We seamlessly integrate the best health care with the best health research as key to discovering and testing new treatments in clinical trials.

We’re delivering drug trials, making discoveries and improving quality of life for people living with neurological conditions including MS, MND, Parkinson’s and early onset dementias.

We host NHS Lothian specialist clinics for these conditions and combine this clinical care with scientific research. We’re giving people across Scotland the opportunity to take part in research studies and so be part of innovations and discoveries that will have a positive impact for the future.

The unique welcoming environment of our Clinic aims to help people attending NHS and research appointments to feel comfortable and relaxed during their visit.
About Edinburgh Futures Institute

At the Edinburgh Futures Institute we challenge, create and make change happen. We are focused on tackling today’s increasingly complex issues by bringing people and disciplines together to spark the unexpected and make better futures possible.

We are creating a new environment for learning, teaching, research and innovation, side-by-side with students, communities, businesses and industry.

The biggest challenges facing societies globally are complex and interconnected. Our approach is participatory and future-facing. Recognising that insight, innovation and impact come from bringing people and knowledge together, and that addressing the challenges of our time requires radical and creative collaborations.

Our ethos and approach stem from the University of Edinburgh’s principles of civic responsibility, working with and for wider communities, and the importance of opening up education to all who can benefit.

About Advanced Care Research Centre

In February 2020, The University of Edinburgh and Legal & General announced a major partnership to improve understanding of care in later life and to revolutionise how it is delivered. Legal & General funded the £20 million Advanced Care Research Centre (ACRC), a seven year research programme combining research across fields including medicine and other care professions, life sciences, engineering, informatics data and social sciences.

We assembled an interdisciplinary team of researchers from across the University of Edinburgh, Newcastle University, and University College London (UCL), bringing together top academics across all aspects of caring for those in later life. They will work on a range of interlinking work-packages that tackle themes such as understanding the person in context, creating new technologies of care and building new models of care.

Our vision is to instigate high-quality data-driven, personalised and affordable care that supports the independence, dignity and quality of life of people in later life living in their own homes and in supported care environments.

Our aim is to transform care in later life using personalised care enabled by data science, artificial intelligence, assistive technologies and robotics embedded in systems of health and social care which are highly responsive to the wishes, priorities and needs of individual people in later life.
## Agenda

Informatics Forum G.07, Atrium and Café area, University of Edinburgh

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08.30 – 09.00</td>
<td><strong>Registration and coffee</strong></td>
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| 09.00 – 09.10 | Welcome to University of Edinburgh and Edinburgh Centre for Robotics  
*Professor Sethu Vijayakumar, The University of Edinburgh and The Alan Turing Institute* |
| 09.10 – 09.25 | EU HARMONY – End User Challenges  
*Lena Nyman, Karolinska University Hospital  
Jordy Janson, University Hospital Zurich* |
| 09.25 – 09.40 | Advanced Care Research Centre (ACRC)  
*Professor Stewart Mercer, Professor of Primary Care and Multimorbidity, College of Medicine and Veterinary Medicine, University of Edinburgh* |
| 09.40 – 09.55 | Japan Moonshot Initiative  
*Professor Shingo Shimoda, Nagoya University, Japan* |
| 09.55 – 10.10 | Anne Rowling Regenerative Neurology Clinic  
*Dr Don Mahad, University of Edinburgh* |
| 10.10 – 10.25 | Driving Innovative Healthcare Solutions: The Edinburgh Futures Institute  
*Professor Kev Dhaliwal, Professor of Molecular Imaging and Healthcare Technology, Consultant Physician in Respiratory Medicine, University of Edinburgh* |
| 10.25 – 10.45 | Coffee break and Interactive Poster Session                                                   |
| 10.45 – 11.10 | EU HARMONY – Project Highlights  
*Dr Lionel Ott, ETH Zurich* |
| 11.10 – 11.25 | Gait Rehabilitation for Neurological Disorders: Exoskeletons and FES  
*Professor Juan Moreno, Cajal Institute and Centre for Robotics, Madrid* |
| 11.25 – 11.40 | Addressing Healthcare Challenges at the National Robotarium  
*Professor Lynne Baillie, National Robotarium, Heriot Watt University* |
| 11.40 – 11.55 | Ethics of Robotics Deployment in Healthcare  
*Dr Giulia De Togni, Wellcome Trust Research Fellow* |
| 11.55 – 12.00 | The Cajal Embroidery Project  
*Dr Jane Haley MBE, Director of Research, MNDScotland* |
Agenda cont.

12.00 – 14.00  **Lunch – Posters and Demos**

Healthcare Demonstration Forum (Industry)
Touchlab
Touchence
Technaid

14.00 – 15.00  Edinburgh Centre for Robotics: Bayes Lab Tour

*Introduction from Dr Saeid Samadi (Lab Manager)*

15.15 – 16.00  Travel to National Robotarium, Heriot Watt University

16.00 – 17.00  National Robotarium Tour (Introduction and HRI Lab visit)

*Stewart Miller, (CEO, NR) and Professor Lynne Baillie*

18.30  Dinner – by invitation only.
About the Workshop

Artificial Intelligence (AI) and embodied Robotics solutions are playing an increasing significant role in the addressing some of the most pressing grand challenges in Healthcare and Assisted Living in our society. For successful, safe and effective deployment of these fast changing technologies, it is important that we work closely and collaboratively with different stakeholders.

In this one day workshop, we bring together end users in care homes, hospitals and rehabilitation centres; world leading researchers from academia including European and International consortia; startup companies and established industry players in this space; as well as policy makers and researchers who look at the ethics and governance structures that inform deployment strategies.

This workshop will highlight the outcomes of the EU H2020 project HARMONY, talk about the new developments in Turing 2.0 with a special emphasis on the Healthcare Grand Challenge, hear from leading practitioners at The Anne Rowling Regenerative Neurology Clinic, The Cajal Institute - Spain, as well as the Advanced Care Research Centre (ACRC) and learn about the Japanese Moonshot program for the ageing society. The workshop will conclude with visits and demos at the Bayes Field Robotics labs as well as the National Robotarium.

We will have a forum for interaction through our interactive poster sessions, demos from companies as well as social events at the end of the day. This event is supported by the EU H2020 Project HARMONY, The Alan Turing Institute, The National Robotarium and The Edinburgh Centre for Robotics.