



**Information and Networking Event
Horizon Europe 2023-2024 Calls
Co-Funded by the Government of India
(DST)**



HORIZON-CL4-2024-HUMAN-03-02: Explainable and Robust AI

24 May 2024

- **Trusting AI and the practice of AI Ethics: looking down from the ivory tower**
- Professor Elena Gaura, Associate Pro Vice-Chancellor (Research)
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Facts & Figures

Founded 1843

6 Campus Locations Outside Coventry:

London x4, Scarborough, Wroclaw (Poland)

4 Overseas Hubs

Europe, Dubai, Rwanda, Singapore, China, India

Comprehensive University

Engineering, Environment & Computing

Health & Life Sciences

Business & Law

Art & Humanities

75,000 Students (22/23)

39,706 UG - 28,511 PGT - 4,555 FE

22,104 Translational Education

4,239 Full Time Equivalent Staff (20/21)

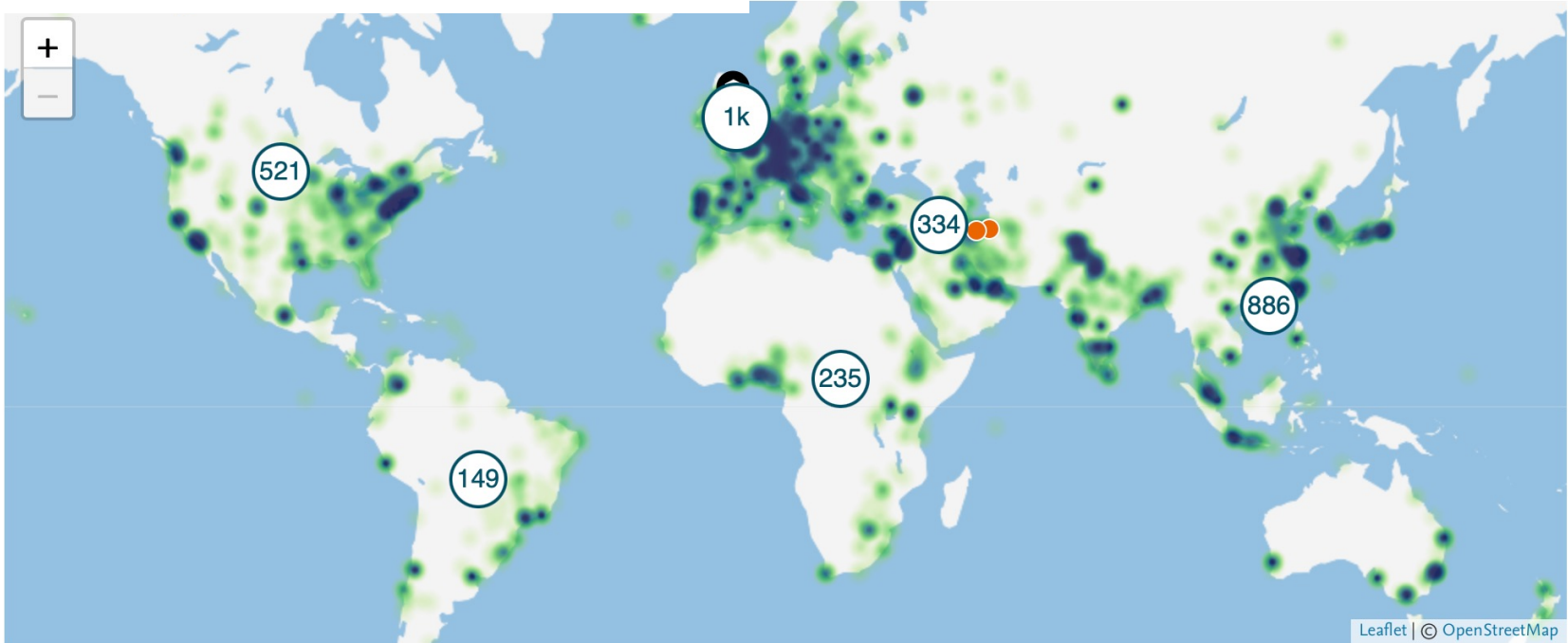
£497m pa turnover (22/23)

Institutions Collaborating with Coventry Worldwide (2020-23)

Number of collaborating Institutions ● Top 10 Institutions worldwide by co-authored publications

3,423 collaborating institutions
5,071 co-authored publications

Co-authored publications: Low  High Heatmap 



Trusting AI and the **practice of AI Ethics: looking down from the ivory tower**

Looking for consortia that need our skills in: AI research, the Ethics of AI in practice, building and translating into practice robust AI systems

Research Centre for Computational Science and Mathematical Modeling

Working across disciplines, sectors and applications



Machine Learning for Computer Vision

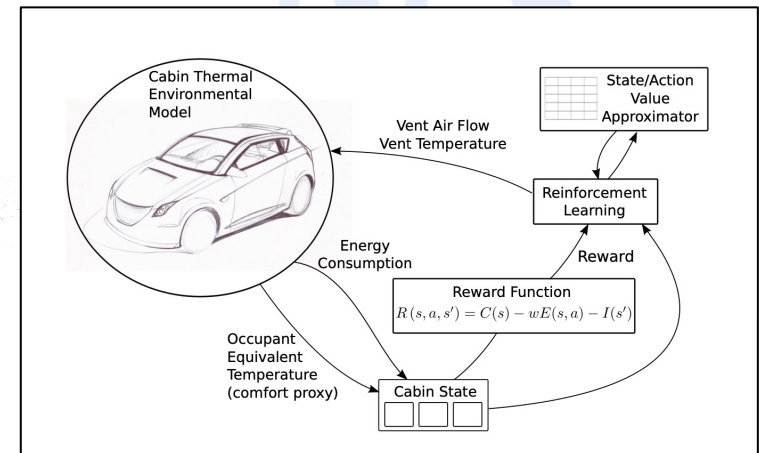


AI for Cyberphysical Systems



Fundamental Algorithms for AI

Reinforcement Learning
Human centric AI driven systems design
NLP
Edge mining from sensors and sensor networks
Data to knowledge pipelines
AI for Mathematics
Neuroscience AI
Biometrics



Computer Scientists, Engineers and Social Scientists

IN FOCUS: Robust and Ethical AI in Theory AND Practice

Why do we need to talk about “trusting the AI” and “practicing AI ethics”?

1. **The Academe** takes for granted notions of Ethics, Robustness, Trust, Transparency, etc
 - trust and ethics discussion started long ago – preceding many of today’s techniques
 - research translation into applications focused the mind
 - easy to assume we are all on the same page
2. **The industry/sectors** have a culture of regulatory compliance BUT
 - less established practices on ethics – assumed to be generally covered by legislation and regulation
 - we have not yet sorted open data, or the ethics of data sharing
3. **The incredible pace** of technical advances and readiness to apply AI
 - fast vs robust uptake
 - capacity building lagging
 - technology first, eco-system second approaches

Possible solutions

- **Culture** shift and collective responsibility
- Robust, Ethical and Trustworthy AI **BY DESIGN**
- Trust and Ethics **literacy**
- **Multi-disciplinary** in design-implementation-commissioning-use of systems life cycle
- **Whole society** design for ANY AI

What we offer: support in building communities of practice and ethics-conscious cultures that promote responsible innovation

- **Know how** in promoting a proactive Ethical Culture in AI Research and translating that culture to Practitioners - the beneficiaries and end users
 - empower AI developers to implement AI solutions responsibly, locally, but influenced by and influencing standards globally
 - set benchmarks for ethical, inclusive, and transparent AI development across research communities
 - emphasize broader implications of AI and decision-making in AI applications that could potentially lead to greater discrimination and inequality of opportunity
 - support researchers and practitioners in critically evaluating their work's impact beyond direct human subject interaction to ethically, safely, and responsibly develop and deploy AI throughout the lifecycle of their projects
- **Broad understanding** of AI's Societal Effects and how to drive AI research that supports community resilience, promoting solutions that are equitable and respectful of human rights, enhancing quality of life