

Artificial Intelligence Research Centre
School of Science & Technology, City St George's, University of London
presents

NEUROSymbolic AI

From Ontological Foundations to Genomic Discovery

Wednesday, 24 June 2026 | 14:30-16:30



This seminar brings together leading researchers in Neurosymbolic AI, Ontological Engineering, and Computational Genomics to discuss how the integration of deep learning with symbolic reasoning can advance scientific discovery—from foundational theory to the identification of genetic and epigenetic markers of human longevity.

PROGRAMME

Time	Talk	Speaker
14:30 - 14:35	Opening Remarks	Dr. Michael Akintunde
14:35 - 14:55	<i>Neurosymbolic AI: Towards Sound Reasoning, Causal Learning and the Road to AGI</i>	Prof. Artur d'Avila Garcez City St George's, University of London, UK
14:55 - 15:25	<i>A Neurosymbolic Framework for Longevity Markers Discovery from DNA</i>	Prof. Alberto Ferreira De Souza Universidade Federal do Espírito Santo, Brazil
15:25 - 15:45	<i>LLMs as oracle for ontology alignment</i>	Dr. Ernesto Jiménez-Ruiz City St George's, University of London, UK
15:45 - 16:05	<i>Inferring Superpopulation Labels from DNA via AlphaGenome-Derived Functional Signals</i>	Prof. Alberto Ferreira De Souza Universidade Federal do Espírito Santo, Brazil
16:05 - 16:30	<i>On the Multiple Roles of Ontologies in Explanations for Neuro-Symbolic AI</i>	Prof. Giancarlo Guizzardi University of Twente, The Netherlands
16:30 - 16:35	Closing Remarks	Prof. Alberto Ferreira De Souza & Prof. Artur d'Avila Garcez

SPEAKERS

Prof. Artur d'Avila Garcez

Professor of Computer Science at City St George's, University of London, and President of the Neural-Symbolic Learning and Reasoning Association (NeSy). His research bridges neural networks and symbolic reasoning, with contributions to knowledge extraction, logic-based learning, and the neurosymbolic cycle. He is a leading voice in neurosymbolic AI and its role in trustworthy, explainable systems and the road to AGI.

Prof. Alberto Ferreira De Souza

Emeritus Professor of Computer Science at the Universidade Federal do Espírito Santo (UFES), Brazil. His research focuses on deep learning, autonomous systems, and neurosymbolic AI applied to genomics. He led the development of IARA,

Brazil's first autonomous car, and currently investigates neurosymbolic frameworks for the discovery of genetic markers of healthy aging.

Prof. Giancarlo Guizzardi

Full Professor at the University of Twente, The Netherlands, and one of the world's leading researchers in Ontological Engineering and Conceptual Modelling. Creator of the Unified Foundational Ontology (UFO) and OntoUML, his work spans explainable AI, semantic interoperability, and the role of ontologies in trustworthy and ethical AI systems.

Dr. Ernesto Jiménez-Ruiz

Ernesto Jimenez Ruiz is a Senior Lecturer in Artificial Intelligence and the Computer Science Director of Research at City St George's, University of London, and is affiliated to the Research Center for Adaptive Computer Systems and Machine Learning. He is also one of the chairs of the Alan Turing Institute Interest Group on Knowledge Graphs.

ORGANISERS

Prof. Alberto Ferreira De Souza — Universidade Federal do Espírito Santo (UFES), Brazil

Prof. Artur d'Avila Garcez — City St George's, University of London, UK

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