### FÓRUM DO OUTONO

### BEING HUMAN IN THE AGE OF AI



IDENTITY, ETHICS, AND SOCIETY IN A TECHNOLOGICAL WORLD

**November 17,** 2025

Casa da Música • Porto Portugal

#### 10th INESC TEC Autumn Forum 2025

Program

Opening

Keynotes

**Round Table** 

Closing Session

Organiser

### 10TH INESC TEC AUTUMN FORUM



n the year when INESC TEC celebrates the 40th anniversary of INESC in Porto, the INESC TEC Autumn Forum marks its 10th edition. As the central event of our anniversary year, it will take place on 17 November at Casa da Música, Porto, and will focus on Artificial Intelligence - its future, implications, and remarkable potential, as well as the challenges it poses to humanity, society, and culture. To celebrate this milestone, the Forum is hosted in one of Porto's most emblematic venues, reflecting both the ambition and international scope of the event.



We invite you to join us in a moment of reflection and discovery. Whether you come from science, technology, the humanities, or the arts, or are simply curious about the transformations shaping our collective future, the Autumn Forum is for you. Together, let us explore how Artificial Intelligence can inspire, challenge, and transform the ways we live, create, and connect as a society.



14:00	RECEPTION		
14:30	OPENING		
	João Claro	•	Chairman of INESC TEC
14:40	KEYNOTE #1 BUILDING HUMAN-CENTRIC MODELS FROM GLOBAL VOICES		
	Marzieh Fadaee	•	Cohere Labs
15:20	KEYNOTE #2 THE NEXT GENERATION OF AI: SUSTAINABLE, RELIABLE, AND TRUSTWORTHY		
	Gitta Kutyniok	•	Ludwig Maximilian University of Munich
16:00	COFFEE-BREAK		
16:30	ROUND TABLE		
	Moderated by		
	Rodrigo Pratas	•	SIC Notícias
	Arlindo Oliveira	•	Instituto Superior Técnico and President of INESC
	Sofia Miguens	•	Faculty of Arts and Humanities of University of Porto
	Mário Boto Ferreira	•	Faculty of Psychology of University of Lisbon
	Mário Figueiredo	•	Instituto Superior Técnico
	José Carlos Príncipe	•	University of Florida
18:00	CLOSING SESSION		
	Fernando Alexandre	•	Minister of Education, Science and Innovation
18:30	PORTO D' HONRA		





### João Claro





João Claro is Chairman and CEO of INESC TEC and Associate Professor with Habilitation in Industrial Engineering and Management at the Faculty of Engineering of the University of Porto (FEUP). He directs the Doctoral Programme in Engineering and Public Policy at FEUP and acts as President of the Academic Council at Porto Business School (PBS). His focus is Technology Management and Policy.



He is Scientific Director of the UT Austin Portugal Program and has worked closely with Carnegie Mellon University and the Massachusetts Institute of Technology (MIT), including as National Director of the Carnegie Mellon Portugal Program (2013-2017), visiting scholar at MIT (2008), and member of joint research and education projects. He was a member (2020-2023) of the Board of the European Association of Research and Technology Organisations (EARTO).

He holds a PhD and a degree in Electrical and Computer Engineering (FEUP), and an MSc in Quantitative Methods in Management from PBS. Earlier, he worked as a software engineer and project manager in the EDP Group.



**KEYNOTES** 



#### Marzieh Fadaee





Marzieh Fadaee is the Head of Cohere Labs (formerly Cohere For AI), where she focuses on fundamental research and solving complex challenges in Natural Language Processing (NLP) and building and improving language models.

She co-leads the Aya initiative, which led to the creation of the largest multilingual instruction dataset and the development of a series of state-of-the-art multilingual language models.



Before joining Cohere for AI, Marzieh was the NLP/ML Research Lead at Zeta Alpha Vector, where she pioneered innovative approaches to knowledge discovery and organization. She holds a PhD from the University of Amsterdam where she studied neural machine translation models.

## **Building Human-Centric Models from Global Voices**



As language models increasingly shape how we communicate, learn, and create, their understanding of the world depends on whose voices they "hear". Yet, most of today's AI systems are trained on data that overrepresents a small fraction of humanity.

This talk will explore how building truly humancentric AI begins with embracing linguistic and cultural diversity. Drawing on lessons from large-scale multilingual initiatives, the audience is invited to discuss how inclusive data practices, diversity-aware sampling, and community-driven collaborations can shift the balance from models that generalise over people to models that represent them.





### Gitta Kutyniok





Gitta Kutyniok has a Bavarian Al Chair for Mathematical Foundations of Artificial Intelligence at the Ludwig-Maximilians-Universität München and is affiliated with the DLR-German Aerospace Center and the University of Tromso. She received her Ph.D. degree from the Universität Paderborn in Germany.

From 2001 to 2008 she held visiting positions at several US institutions. In 2008, she became a full professor of mathematics at the Universität Osnabrück, and, three years later, she held an Einstein Chair in the Institute of Mathematics at the Technische Universität Berlin. In 2023, together with colleagues, she founded the start-up EcoLogic Computing GmbH.



Gitta Kutyniok's research work covers the areas of applied and computational harmonic analysis, artificial intelligence, compressed sensing, deep learning, imaging sciences, inverse problems, and applications to life sciences, robotics, and telecommunication.

# The Next Generation of Al: Sustainable, Reliable, and Trustworthy



Artificial Intelligence offers tremendous opportunities for the economy, science, and society - from medical breakthroughs and more efficient industrial processes to new forms of knowledge discovery. However, to unlock this potential in the long term, we need a new generation of AI systems that are not only powerful but also energy-efficient, reliable, and trustworthy.

This talk explores this development from a scientific perspective. Using selected application examples, current use cases of AI systems will be presented. In addition, the latest research approaches aimed at increasing reliability and sustainability in both predictive and generative AI will be discussed, paving the way toward a responsible and future-proof era of Artificial Intelligence.













Rodrigo Pratas is a journalist and news anchor at SIC tv, Portugal. With a career starting in 2000, Rodrigo has been hosting the primetime news for SIC Notícias since 2016. He has interviewed a wide variety of personalities, including Portuguese government Ministers and Secretaries of State, multinational companies' CEOs and experts in economy, finance, military, health issues. Rodrigo has also reported, as special envoy, from different world locations, including Brussels, Washington D.C., Barcelona, NYC, London and Madrid, on several world affairs. Due to his wide experience, Rodrigo also has a key role in editing the newscast he hosts, for the past 20 years.

Rodrigo attended the Lisbon Catholic University and has also taught journalism and news anchoring studies at media schools in Lisbon.

He speaks fluently Portuguese, Spanish, French and English and has an certain degree of Italian, due to the fact he enjoys foreign language skills.



# Arlindo Oliveira MODERATOR



Arlindo Oliveira obtained his BSc and MSc degrees in Electrical Engineering and Computer Science (EECS) from Instituto Superior Técnico (IST) and his PhD degree, also in EECS, from the University of California at Berkeley.

He is a distinguished professor of IST, president of INESC, distinguished visiting professor at Macau Univ. of S&T, and member of the board of CGD. He authored five books and hundreds of articles, in the areas of algorithms, artificial intelligence, machine learning, bioinformatics and computer architecture.



He has been on the boards of several companies and institutions. He is a member of the Lisbon Academy of Sciences, of the Portuguese Academy of Engineering, and of ACM. He is a senior member of IEEE and a fellow of ELLIS. He received the Technical University of Lisbon/Santander prize for excellence in research, the GALP/Academy of Engineering career prize and the ACEPI career prize, among others.







Full Professor in the Department of Philosophy at the Faculty of Arts and Humanities of the University of Porto and researcher at the Institute of Philosophy, where she leads the Mind, Language and Action Group.

She has been a visiting scholar, visiting researcher, and visiting professor at several international institutions, including New York University, the Institut Jean Nicod in Paris, the University of Sydney, and the University of Paris – Sorbonne (2023). She has taught courses and delivered lectures in numerous countries. She has served as President of the Portuguese Society of Philosophy and as Director of both the Department of Philosophy and the Institute of Philosophy at the University of Porto.

She currently directs the Doctoral Programme in Philosophy. She is the author of ten books. She has coordinated more than 20 collective volumes in Portuguese and English. She has authored over 100 papers in English, French, and Portuguese.







Mário Boto Ferreira is a Full Professor at the Faculty of Psychology of the University of Lisbon, where he directs the Centre for Research in Psychological Science (CICPSI).

He conducts fundamental research in memory, social cognition, and decision-making, as well as applied research in consumer psychology, aiming to apply concepts and methodologies from basic research to the understanding and resolution of socially relevant problems.



His work has specifically explored the effects of financial scarcity on cognitive functioning, as well as the impact of excessive debt on health, emotional wellbeing, and life satisfaction. In parallel, he has developed and participated in projects on the use of Artificial Intelligence to address excessive debt and poverty, as well as to assess and improve health literacy among Portuguese citizens (SmartHealth project).







Mário Figueiredo has a PhD in Electrical and Computer Engineering from Instituto Superior Técnico (IST), University of Lisbon, where he is an IST Distinguished Professor and holder of the Feedzai Chair on Machine Learning. He is also a senior researcher and a group leader at Instituto de Telecomunicações.



He received several honors and awards, namely: Fellow of the Institute of Electrical and Electronics Engineers (IEEE), Fellow of the International Association for Pattern Recognition (IAPR), Fellow of the European Association for Signal Processing (EURASIP), Fellow of the European Laboratory for Learning and Intelligent Systems (ELLIS), member of the Lisbon Academy of Sciences and the Portuguese Academy of Engineering.







Jose C. Principe is a Distinguished Professor of Electrical and Computer Engineering and Biomedical Engineering at the University of Florida where he teaches statistical signal processing, machine learning and brain computer interfaces modeling.

He is Eckis Endowed Professor and the Founder and Director of the University of Florida Computational NeuroEngineering Laboratory. His primary area of interest is time series analysis in functional spaces, information theoretic learning and Al cognitive architectures. Principe is an IEEE, AAAS, IABME, AIMBE and NAI Fellow.

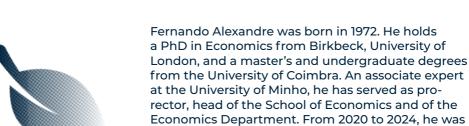


He was awarded the IEEE Neural Network Pioneer Award from the Computational intelligence Society, the IEEE Shannon-Nyquist Technical Achievement Award from the Signal Processing Society, the EMBS Career Achievement Award, and the Teacher Scholar of the Year from the U. of Florida.





### Fernando / Alexandre





His research focuses on macroeconomics, public policy evaluation and development of the Portuguese economy. Author of many books, like Crisis and Punishment and From Made In to Created In, he authored over 20 papers in international journals. He has consulted for the EC and the Portuguese Government and received the University of Minho Scientific Merit Prize in 2022. He also served as Deputy Minister of Home Affairs (2013-2015) and is Minister of Education, Science and Innovation since 2024.

vice-president of the Economic and Social Council; in 2023, he coordinated the economic and financial

review of the new Lisbon airport.









INESC TEC's vision is to be an inspiring and empowering force, advancing the science and technology of digitally enabled systems to help address the major challenges facing society. The institute develops its activity across eight scientific domains - Artificial Intelligence, Bioengineering, Communications, Computer Science and Engineering, Photonics, Power and Energy Systems, Robotics, and Systems Engineering and Management - and focuses its innovation on key market sectors such as Aerospace, Security & Defence, Agrofood, Energy, Health, Industry, Sea, and Telecommunications.

At its core, INESC TEC is a people-centred organisation guided by rigour and excellence, freedom of thought, integrity, collaboration, and creativity. It brings together a diverse and open community where talent thrives, ideas grow, and science and technology serve the public good.



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