

**ARTIFICIAL INTELLIGENCE: APPLICATIONS, IMPLICATIONS AND  
SPECULATIONS**

**Culturgest and Fidelidade organize conference cycle  
in partnership**

**APR 17 / MAY 15 / JUN 5, 2019**

**Lisbon, April 2<sup>nd</sup>, 2019** - Artificial Intelligence is the first theme of the Fidelidade-Culturgest cycle which brings to Lisbon some of the world's leading specialists in this field.

The cycle starts on April 17<sup>th</sup> - Applications (good and bad) with Mário Figueiredo; May 15<sup>th</sup>: Implications - The Rise of the Robots with Martin Ford; June 5<sup>th</sup>: Speculations with Stuart Russell. All conferences take place at the Culturgest Grand Auditorium in Lisbon and admission is free.

Artificial Intelligence is increasingly imposing on contemporary societies reality. New technological developments are born every day, but seldom their impact properly reflects in the public sphere. Assuming the importance of knowing and discussing this reality, these debates cycle promotes the look and reflection on the current processes of Artificial Intelligence, its social implications in the most diverse dimensions (from health to privacy, to employability and others) and the way how the future is imagined in this new paradigm.

Between April and June, the cycle is divided into three moments, each with a double program: a debate with several academic and business speakers and a conference.

Luísa Coheur, Pedro Bizarro, Millind Tambe, Luís Moniz Pereira, Manuel Dias, Virginia Dignum, André Martins are the names that complete the set of speakers of this cycle.

Organized with Fidelidade - Companhia de Seguros and with the scientific partnership of Instituto Superior Técnico (IST), the cycle has as scientific advisors Arlindo Oliveira (Professor of IST's Department of Informatics and Engineering, IST President and member of its advisory board), Ana Paiva (IST Department of Informatics and Engineering Professor) and Mário Figueiredo (Professor of IST's Department of Informatics and Engineering and coordinator of the Multimedia and Networks Research Area and the Group, Patterns and Images Analysis from the Telecommunications Institute), which also curate, along with Lílina Coutinho, Culturgest's the conference and debates area advisor, and are part of the panel of speakers.



## **FULL PROGRAM**

### **ARTIFICIAL INTELLIGENCE: APPLICATIONS, IMPLICATIONS AND SPECULATIONS**

**Free entry**, subject to availability and ticket collection on the same day from 15:00

In Portuguese and English with simultaneous translation

Live streaming available, except on Stuart Russell's conference

**April 17<sup>th</sup>**

#### **16:00 | Artificial Intelligence Debate: Applications**

**Luisa Coheur (IST, Portugal), Pedro Bizarro (Feedzai, Portugal and USA), Millind Tambe (India and USA)**

Artificial Intelligence: Applications, the first debates cycle, presents the current state of some of the main applications of artificial intelligence, their possibilities and their limits.

As a starting point, large areas of research will approach, such as robots with whom we can talk with and the possibilities of natural language processing and conversational agents; the use of artificial intelligence and robotic multi-agents for the social wellbeing; artificial intelligence in the implementation of security systems and in the fight against computer fraud and other.

#### **18h30 | Artificial Intelligence Conference: Applications (the good and the bad)**

**Mário Figueiredo (IST, Portugal)**

Artificial intelligence, data science, machine learning and big data are terms that have become part of the daily life, often emerging in political, economic, social and even philosophical speech. Few are the spheres of contemporary life immune to the impact of these techniques on the functioning of modern societies.

In the first conference of this cycle, Mário Figueiredo explains what artificial intelligence and automatic learning is and how they fit in the data science context. Will also present a historical perspective on the relation between the explosive development of these techniques and the generalization of Internet access and ending with examples of applications, some good (in fighting poverty, in medical diagnosis and in the preservation of endangered species), others obviously bad (such as the interference in elections and cyberterrorism), and several others on which he will not make judgments, leaving the discussion of impacts for the second day of this series of presentations and debates.

Mário Figueiredo is a PhD and associate in Electrical and Computer Engineering at the Instituto Superior Técnico, University of Lisbon, where he is Professor, Senior Researcher and Area Coordinator and Group Leader at the Telecommunication Institute. His areas of research are machine learning, image processing and analysis, and optimization. From 2014 until now, has integrated the prestigious annual list

Highly Cited Researchers (Clarivate Analytics), being the only Portuguese of engineering or computer science areas with this distinction.

## **MAY 15<sup>th</sup>**

### **16:00 | Artificial Intelligence Debate: Implications**

**Luís Moniz Pereira (FCT-UNL, Portugal), Manuel Dias (Microsoft, Portugal), Virginia Dignum (Umeå University, Sweden)**

There are many implications that must be addressed when considering the use and development of artificial intelligence, such as social, economic, political, technological, legal, ethical and philosophical. In this meeting some of these questions are deepened: is it possible to integrate responsibility as one of the functions of artificial intelligence machines? Are algorithms capable of justice or moral judgments? What jurisdiction applies to self-employed agents (such as those applied to automobiles)? What are the implications with ethics, the privacy of personal information data? What are the consequences of technologies that make use artificial intelligence in education, health and, in times of climate change, in the environment?

### **18:30 | The Rise of Robots Conference**

**Martin Ford (USA)**

We have known for a long time that robots have replaced most manual labor. However, now they take on complex jobs that once were thought to be made only by humans. Martin Ford analyzes on how the accelerating pace of new technologies will change, for better and worse, the economy, the labor market, the education system, and society in general.

Martin Ford has more than 25 years of experience in computer design and software development, having founded a company in this field in Silicon Valley and is the author of the books *Rise of the Robots: Technology and the Threat of a Jobless Future* and *Lights in the Tunnel: Automation, Technology Acceleration and Economy of the Future*. *Rise of the Robots* received the Financial Times/McKinsey Book of the Year award and was nominated one of Business Insider's best business books.

## **JUN 5<sup>th</sup>**

### **16:00 | Artificial Intelligence Debate: Speculations**

**Ana Paiva (FIST and INESC / PT), André Martins (Unbabel / PT / USA), Arlindo Oliveira (IST / PT)**

Artificial intelligence is changing the way humans work, live, and communicate with each other. How will it be in the future? Are there ways of promoting benevolent social behavior between machine and human being being thought beyond its most utilitarian dimension?

In the last debate of the cycle, it is speculated the world of artificial intelligence in the medium and long term. Guests discuss the potential of developing technologies with the ambition of reproducing human intelligence and language on digital supports, their possible role in the future expansion of humanity to other solar systems, as well as possible scenarios that could lead to two extremes: from the expansion of human intelligence to the extinction of humanity.

## **18:30 | Compatible Human Artificial Intelligence Conference**

### **Stuart Russel (Berkeley University, USA)**

All technologies responsible for artificial intelligence are evolving at exponential rates. Very soon, and mostly in every business, culture, and human life, artificially intelligent machines will be doing things that are now not even conceived. If Artificial Intelligence is the brain of the machine of the future, the robot is your body. These assume more and more functions that previously required a human actor, with consequences and opportunities. Few people understand this future better than Stuart Russell, one of the leading researchers in the practical applications of machine intelligence field.

Stuart Russell is Professor of Electrotechnical Engineering and Computer Science at the University of California, Berkeley, and assistant professor of Neurosurgery at the University of California, San Francisco. A pioneer in understanding and using Artificial Intelligence, in thinking about its long-term future and its relationship with humanity, it is also one of the leading authorities in robotics and bioinformatics.

### **About Fidelidade**

Fidelidade is the leading market insurer in Portugal, both in life and non-life, with a market share around 30.7%. The company is present in the various insurance business segments and benefits from the largest network in Portugal, with a presence in several countries, namely Angola, Cape Verde, Mozambique, Spain, France and Macau.

Fidelidade operates based on a defined and continuous "Customer Centric Approach" strategy, where clients are effectively in the first place. The fact that it gives a crucial importance to the quality of the service that provides and to their wide and innovative offer, makes Fidelidade the market-leading insurer, the most awarded in Portugal and also with international distinction. In 2014, Fidelidade was distinguished by the "Efma Accenture Innovation Awards", in the "sustainable business" category, with its 'WeCare' project (which aims to support the correct reintegration of people who were victims of serious accidents, requiring physical, economic and social reintegration).

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