

# I GLOBAL FORUM ON ARTIFICIAL INTELLIGENCE AND SUSTAINABILITY

Seville, 25-26 September 2023

## Program for the event

### DAY 1 (25 SEPTEMBER 2023) - 16:00 - 19:30

#### 16:00 Opening and Welcome

Rector de la Universidad de Sevilla

**D. Miguel Ángel Castro Arroyo**

Regional Minister for Presidency, Interior, Social Dialogue and Administrative Simplification. Junta de Andalucía

**D. Antonio Sanz Cabello**

Head of Government Affairs and Public Policy, Google Spain, and Portugal

**D. Miguel Escassi**

#### 16:10 Opening Keynote (15 min.)

Senior Director of Engineering, AI Research Strategy at Google. IA Advisory Committee. Government of Spain

**Pilar Manchón**

#### 16:30 FIRST PANEL:

**Artificial Intelligence and Sustainability: challenges and opportunities to change the world (45 min.)**

**Moderator:** Pilar Manchón

#### **Speakers:**

- **Ricardo Vinuesa.** PhD in Mechanical and Aerospace Engineering from the Illinois Institute of Technology in Chicago (USA). Vice Director of KTH Digitalization Platform and Lead Faculty at KTH Climate Action Centre in Stockholm. Director of the Applied Artificial Intelligence group at KTH – Royal Institute of Technology in Stockholm (Sweden).
- **Francisco Herrera.** Universidad de Granada. Director of the Andalusian Interuniversity University Institute in Data Science and Computational Intelligence. IA Advisory Committee. Government of Spain.
- **Konecta. Carlos García Fernández.** Chief of AI & Innovation Grupo Konecta.
- **Telefónica. Juan Manuel Caro Bernat,** Director Autonomous Networks in Telefónica S.A.

### 17:15 Research Talk (10 min. per speaker)

- **TED 1: Carlos León.** Full Professor at the Universidad de Sevilla. Director of the research group "Electronic Technology and Industrial Informatics". Director of the Telefónica Chair University of Seville Intelligence in the Network.
- **TED 2: Coral Calero.** Professor of Computer Languages and Systems at the University of Castilla-La Mancha. Member of the Alarcos Research Group, being responsible for the line of "Green and Sustainable software".
- **TED 3: Matteo Rucco.** Promoter of the European project REXASI-PRO (REliable & eXplainable Swarm Intelligence for People with Reduced mObility). Expert in data science for complex bio-inspired systems, aerospace, elevators. Data Science Manager at the Biocentis.

### 17:45 Break - Networking (30 min.)

### 18:15 Opening Keynote (15 min.)

- **Anibal Ollero.** Director of the Robotics Laboratory (GRVC) and Scientific Advisor of the Advanced Center for Aerospace Technologies (CATEC). National Engineering Research Award; Rei Jaume I in New Technologies Award; "Javier Benjumea Puigcerver" Award; FAMA University of Seville Award in Engineering and Architecture. Co-chair of the "IEEE Technical Committee on Aerial Robotics and Unmanned Aerial Vehicles".

### 18:30 SECOND PANEL

#### Artificial intelligence, Attention to the Environment and Economic and Technological Development (45 min.)

**Moderator:** Anibal Ollero

**Speakers:**

- **Michael Beetz.** Professor for Computer Science at the Faculty for Mathematics & Informatics of the University Bremen. Head of the Institute for Artificial Intelligence (IAI). IAI investigates AI-based control methods for robotic agents, with a focus on human-scale everyday manipulation tasks.
- **Sergio Boixo.** Scientific Director of Quantum Computer Theory at Quantum Artificial Intelligence Lab. Google.
- **Airbus. Rafael Guzmán.** Advanced Analytics and Artificial Intelligence Lead, Airbus. Member of IndesIA, the industry association for the advancement of the data economy and Artificial Intelligence.

#### 19:15 Research Talk (10 min. per speaker)

- **TED 4: María Amparo Alonso Betanzos.** President (2013-2021) of the Spanish Association of Artificial Intelligence (AEPIA) and coordinator of the LIDIA research group. IA Advisory Committee. Government of Spain.
- **TED 5: Luca Oneto.** University of Genoa. Amazon AWS Machine Learning and Somalvico Award (best Italian young researcher in AI). His research focuses on Statistical Learning Theory and Data Science, with special reference to the Trustworthy AI.
- **TED 6: Víctor Francisco Rodríguez Galiano.** Professor of the Department of Physical Geography of the University of Seville. Principal investigator of the AgrarIA Project. Member of the international panel of experts: "Co-leader of Land Product Validation SubGroup" of the Committee on Earth Observation Satellites (CEOS).

#### 19:45 Networking Cocktail (60 min.)

## DAY 2 (26 SEPTEMBER 2023) - 09:00 - 14:00

**09:00 Opening and Welcome**

**09:10 Opening Keynote (15 min.)**

Vice President, Engineering & Research, at Google.

**Yossi Matias**

**09:30 THIRD PANEL**

**Artificial Intelligence, Human wellbeing, and social development (45 min.)**

**Moderator: Rocío González-Díaz**

Professor of the Department of Applied Mathematics I of the Universidad de Sevilla. Director of the US node that participates in the European project REliable & eXplAinable Swarm Intelligence for People with Reduced mObility (REXASI-PRO).

**Speakers:**

- **Juan Ignacio Cirac Sasturain.** Physicist recognized for his research in quantum computing and quantum optics, framed in quantum theory and theoretical physics. Director of the theoretical division of the Max Planck Institute for Quantum Optics in Garching, Germany.
- **Pascale Fung.** Chair Professor, Department of Electronic and Computer Engineering and Director of the Center for AI Research (CAiRE) at Hong Kong University of Science & Technology. Fellow of AAI, ACL, IEEE and ISCA.
- **Igluco Tech. José Manuel Fornes.** CTO de Igluco Tech.

**10:15 Research Talk (10 min. per speaker)**

- **TED 7: M<sup>o</sup> José Escalona.** Director of the Engineering and Science for Software Systems (ES3). Coordinator of the project, SiTPGa. Fujitsu Award for Innovation, the ROME-University, Women, and Business. Inclusive Woman Category: Social Commitment and CSR or the Light Award for Trajectory. Ada Byron awards for women in technology.
- **TED 8: Joaquín Dopazo Blázquez.** Andalusian Platform of Computational Medicine. Founder of the Spanish Society of Artificial Intelligence in Biomedicine (IABiomed). National Prize for Informatics and Health.
- **TED 9: Domingo Alcaraz Segura.** Principal investigator of the "Remote Sensing" and "Ecosystem Functions and Services" work packages of the SmartEcoMountains LifeWatch project "Thematic Center on Mountain Ecosystem & Remote sensing, Deep learning-AI e-Services University of Granada-Sierra Nevada". Member of the Global Earth Observation - Biodiversity Observation Network (GEOBON).

**10:45 Networking break (30 min.)**

**11:15 Opening Keynote (15 min.)**

Lead Scientist, Human behavior and machine intelligence, Joint Research Centre,  
European Commission

**Emilia Gómez**

#### **11:30 FOURTH PANEL.**

**Trustworthy Artificial Intelligence in the EU: from Ethical guidelines to legal requirements.**

**Moderator: Emilia Gómez.**

Principal investigator of Human behavior and machine intelligence (HUMAIN) project, Joint Research Centre, European Commission. Member of the OECD Working Party and Network of Experts on AI. Her team provides scientific and technical support to EU AI policies such as the AI Act and the Digital Services Act.

#### **Speakers:**

- **Miguel Valle del Olmo.** Digital Transformation Advisor / Digital Transformation Attaché. Permanent Representation of Spain to the European Union.
- **Justo Hidalgo.** Adigital Chief AI Officer (Spanish association for the digital economy). Professor of Product Strategy, AI and Data Analytics and mentor for startups, he is founding partner at Quantified Reading.
- **Manuel Cebrián.** Universidad Carlos III and CSIC. He has held positions at institutions including the Max Planck Society, Massachusetts Institute of Technology, Commonwealth Scientific and Industrial Research Organization, and University of California at San Diego.

#### **12:30 Event highlight and closing comments (30 min.)**

**Anibal Ollero.** Director Robotics Lab University of Seville. Scientific Advisor FADA-CATEC. Professor Emeritus at the University of Seville at the Higher Technical School of Engineering. National Engineering Research Award; Rei Jaume I in New Technologies Award; "Javier Benjumea Puigcerver" Award; FAMA University of Seville Award in Engineering and Architecture. Co-chair of the "IEEE Technical Committee on Aerial Robotics and Unmanned Aerial Vehicles".

#### **13:00 Closing**

Rector de la Universidad de Sevilla

**D. Miguel Ángel Castro Arroyo**

Regional Minister for University, Research, and Innovation of the Regional Government of Andalusia.

**D. José Carlos Gómez Villamandos**

Regional Minister for Industry, Energy and Mines. Junta de Andalucía.

**D. Jorge Paradela Gutiérrez**

Head of Government Affairs and Public Policy, Google Spain, and Portugal.

**D. Miguel Escassi**