

FORECASTING THE FUTURE FOR SUSTAINABLE DEVELOPMENT

JUNE 16

14.30 – 14.45 **Welcome & Introduction**

14.45 – 15.30 **Opening Lecture** – Which forecasting for a sustainable future?

- » Keynote: **Andrea Saltelli**, Open Evidence Research, Open University of Catalonia

15.30 – 17.00 **Session I** – Innovation and mathematics for sustainable development goals

- » Keynote: **Katyna Argueta**, UNDP
- » **Tommaso Ciarli**, UNU-MERIT & University of Sussex
- » **Carla Sciarra**, Polytechnic University of Turin & CEST
- » **Andy Stirling**, University of Sussex

Chair: **Amirali Emami**, University of Leeds

17.00 – 18.15 **Session II** – The debate around non-standard tools for policy making

- » Keynote: **Andreas Pyka**, University of Hohenheim
- » **Magda Fontana**, University of Turin
- » **Andrea Roventini**, Sant'Anna School of Advanced Studies

Chair: **Davide Luzzati**, Sant'Anna School of Advanced Studies & CEST

18.15 – 19.00 **Lecture** – Foundations of complexity economics

- » Keynote: **W. Brian Arthur**, Santa Fe Institute

Discussant: **Davide Luzzati**, Sant'Anna School of Advanced Studies & CEST

JUNE 17

9.00 – 11.00 **Workshop** on Forecasting for policy making by OECD-NAEC, with **Alan Kirman**

11.30 – 12.30 **Session III** – Bibliometric approaches to detect emerging technology

- » Keynote: **Scott Cunningham**, University of Strathclyde
- » **Zsofia Buttel**, Elsevier
- » **Daniele Rotolo**, University of Sussex & Polytechnic University of Bari
- » **Yi Zhang**, University of Technology Sydney

Chair: **Carla Sciarra**, Polytechnic University of Turin & CEST

14.30 – 16.00 **Session IV** – Tracing sustainable trajectories with patent analytics (SinFonia project)

- » Keynote: **Adam Jaffe**, Brandeis University
- » **Sarbani Chattopadhyay & Carsten Guderian**, LexisNexis IP/PatentSight
- » **Kyle Higham**, Hitotsubashi University
- » **Daniela Palma**, ENEA

Chair: **Tommaso Portaluri**, CEST, IN Srl, SinFonia and BRIDGES projects

16:00 – 17:00 **Lecture** – Stop explaining black box machine learning models for high-stakes decision and use interpretable models instead

- » Keynote: **Cynthia Rudin**, Duke University

Discussant: **Pierfrancesco Beneventano**, Princeton University & CEST

17.30 – 19.00 **Workshop** on Explainability of AI by IBM, with **Dennis Wei**

JUNE 18

11.00 – 13.00 **Session V** – Bringing transparency to ESG modelling and investing

- » Keynote: **Philipp Kruger**, University of Geneva
- » **Claudia A. Bolli**, Swiss Re
- » **Carmela Mondino**, Partners Group
- » **Carlo Papa**, Enel Foundation
- » **Richard Patalano**, OECD

Chair: **Luca Mosetti**, Swiss Re

14.00 – 15.30 **Session VI** – Policy pull or science push? Expert advice to government in the post-normal era

- » Keynote: **Joanna Chatway**, University College London
- » **Frédérique Bone**, University of Sussex
- » **Giorgio Matteucci**, National Research Council of Italy & BRIDGES project
- » **Roger Pielke Jr.**, University of Colorado Boulder

Chair: **Samuele Lo Piano**, University of Reading

16.00 – 17.00 **Final Roundtable** – New approaches to forecasting for sustainability

- » **Jean-Philippe Bouchaud**, Capital Fund Management
- » **Guido Chiarotti**, IN Srl
- » **Megan Greene**, Harvard Kennedy School
- » **William Hynes**, OECD-NAEC

Chair: **Laura Martinelli**, IN Srl