

# UKIERI-DST Conference on AI, Cyber Risks and Data Science for FinTech and Digital Economy

13th January, 2022

2:00 pm – 2:30 pm

## Opening of Workshop

Sheri Markose (University of Essex)

Peter Cook, Deputy UK High Commissioner to India

Jovan Illic Head British Council for West India

Anindya S. Chakrabarti (Indian Institute of Management Ahmedabad)

## *Session 1: Infrastructure of Digital Economy*

*Chair: Anindya Chakrabarti (IIM-A)*

2:30 pm - 3:00 pm

Nikiforos Panourgias (University of Leicester and Next Generation Fintech Project, University of Cork, Ireland)

***Data-driven regulation of financial markets: the importance of data quality in the design of the global Legal Entity Identifier***

3:00 pm - 3:30 pm

Harald Stieber (European Commission)

***Modelling the digital economy as a network of contracts***

3:30 pm – 4:00 pm

Dan Ladley (University of Leicester)

***The Micro-Structure of Dark Pools***

***Session 2: Advances in Computer Applications in Data Science***

***Chair: Dan Ladley (University of Leicester)***

**4:00 pm - 4:30 pm**

Sudip Patra (OP Jindal Global Uni, Jindal School of Government and Public Policy, CEASP)

***Quantum Computation: A New Frontier for FinTech***

**4:30 pm - 5:00 pm**

Ankur Sinha (Indian Institute of Management Ahmedabad)

**Analyzing Real Time Unstructured Data: Unlocking the Value of Business News**

***15-minute break***

**5:15 pm - 6:00 pm**

Round Table

Nikiforos Panourgias, Harald Stieber, Dan Laidley, Sudip Patra

***Regulator and Practical Challenges and Opportunities of Data Science (Chair Sheri Markose)***

**14th January, 2022**

***Session 3: Fintech for Sustainable and Inclusive Development***

***Chair: Thankom Arun (University of Essex)***

**9:30 am - 10:05 am**

Keynote Talk

S. Sundararajan (CEO and Co-founder I-Exceed)

***Fintech for Financial Inclusion: A Case Study***

**10:05 am - 10:35 am**

Omar Guerrero (Alan Turing Institute)

***Policy Priority Inference: A Computational Method for the Analysis of Sustainable Development***

**10:35 am - 11:00 am**

**Discussion**

Chaired by Thankom Arun (University of Essex)

Victor Murinde (SOAS), S. Sundararajan (I-Exceed), Omar Guerrero (Alan Turing Institute), Priyadarshi Dash (RIS), Varnika Goel (Twimbit)

***15-minute break***

***Session 4: Data Science for Interconnected Systems and Epidemics***

***Chair: Ben Etheridge (University of Essex)***

**11:15 am-12:00 pm**

Keynote

Tim Rogers (University of Bath)

***The Speed of Contagion***

12:00 pm - 12:30 pm

Rosella Arcucci (Imperial College)

***Data Learning: Integrating Data Assimilation and Machine Learning. An application to the COVID-19 Pandemic***

12:30 pm – 1:00 pm

Anindya S. Chakrabarti (Indian Institute of Management Ahmedabad)

**Sparsistent Filtering of High Dimensional Networks**

*30-minute break*

***Session 5: Foundational Aspects of General Intelligence and AI***

***Chair: Sheri Markose (University of Essex)***

1:30 pm - 2:15 pm

Keynote Talk

Hector Zenil (Oxford and Alan Turing Institute)

***The Unreasonable Effectiveness of Statistical AI***

2:15 pm - 2:45pm

Karl Friston (University College London)

***Deep Inference***

2:45 pm - 3:30 pm

Keynote Talk Vincent Mueller (Humboldt Professor and Alan Turing Institute)

***The Ethics of AI***

**3.30 pm – 4:00 pm**

**Discussion**

Chaired by Sheri Markose (University of Essex)

Hector Zenil (Oxford and Alan Turing Institute), Karl Friston (UCL), Vincent Mueller (Humboldt Professor and Alan Turing Institute)

*15-minute Break*

***Session 6: Cyber- Security and Intelligence***

***Chair: Silvia Sanchez Ramon (University of Madrid)***

**4:15 pm - 5:00 pm**

Keynote Talk

Bimal Roy (Indian Statistical Institute, Kolkata)

***Recent Issues in cyber-domain pertinent to Fintech***

**5:00 pm - 5:30 pm**

Sheri Markose (University of Essex)

***Self-Reference as the Basis of Genomic Intelligence and Blockchain***

**5:30 pm- 6:00 pm**

***Final Summing Up and Comments from All***

***Virtual Drinks***