Digital Finance for Supervision

MSCA DIGITAL Network Workshop at the European Central Bank

Bringing Together ECB Supervision Experts and DIGITAL Network Researchers — November 30, 2026
In collaboration with the Digital Finance and Digital Trust Research Lab, American University of Sharjah

Key Information

- **Date:** Monday, November 30, 2026
- **Time:** 09:00 – 16:00 CET
- **Venue:** European Central Bank
  Sonnemannstrasse 20
  60314 Frankfurt am Main, Germany
- **Capacity:** maximum 80 participants
- **Registration:** Free of charge
- **Format:** Onsite workshop
- **Language:** English
- **Lunch:** Provided
- **Website:**
  digital-ai-finance.github.io/
  digital-finance-supervision
- **Scientific Advisory Board:**
  Stephen Chan (AUS)
  Beryl Chavez Li
  (BCL Capital, Rivia°)
  Jirayut Srupsrisopa (Bitkub)

  digital-ai-finance.github.io/

  digital-finance-supervision/#advisory

Workshop at a Glance

80	17	1	18
Participants (maximum)	Session Talks	Keynote Talk	Partner Institutions

DIGITAL FINANCE AND DIGITAL TRUST Research Lab

AUS American University of Sharjah

Funded by the European Union

This workshop is funded by the European Union's Horizon Europe research and innovation programme under the Marie Skłodowska-Curie Grant Agreement No. 101119635 (DIGITAL – Digital Finance – Reaching New Frontiers).

Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.

Grant Agreement No. 101119635
Horizon Europe · Marie Skłodowska-Curie Actions

Research Topics

1 AI/ML for Bank Supervision

AI and machine learning techniques to enhance banking supervision and regulatory oversight.

- Risk prediction in supervised banks
- Anomaly detection in reporting data
- Risk scoring and early warning
- ML for stress testing

2 NLP for Regulatory Reporting

Natural language processing applied to regulatory documents, compliance monitoring and supervisory communication.

- Analysis of regulatory filings
- Text mining of supervisory reports
- Sentiment in central bank texts
- Compliance monitoring through text

3 LLMs in Supervision

Large language models and generative AI for supervisory processes and regulatory technology.

- LLM review of regulatory documents
- Generative AI for assessments
- Q&A systems for regulation
- Hallucination risks in supervision

4 AI, Nature and Environmental Risk

The environmental footprint of AI infrastructure, and the measurement of nature-related financial risk.

- Where to site data centres
- Remote sensing of ecological change
- Measuring biodiversity risk
- Biodiversity policy and governance

5 Digital Assets and Systemic Risk

Crypto markets, their links to traditional markets, and the systemic risk they carry into the regulated financial system.

- Crypto contagion and the FTX collapse
- Digital and traditional market links
- Herding in digital-asset markets
- Supervision under MiCA

Program Highlights

Morning

09:00 Registration & Welcome Coffee

10:00 Opening Remarks

Pedro Machado (ECB Supervisory Board)

10:30 **Keynote Address 1**

Prof. Charles-Albert Lehalle (École Polytechnique)

11:15 Research Session 1:

AI for Central Banks, Nature-Related Risk and Stablecoins

Pele, Zalewska, Härdle

Lunch

12:15 Lunch Break & Networking

Afternoon

13:00 **Research Session 2: Text, Bank Networks and SupTech Governance**

Taibi, Anyfantaki, Dzurovski, Chan

13:00 **PhD Session 1: Explainable AI in Supervision and Regulation**

Jander, Evite and Svetlova, Reil

14:00 Coffee Break

14:20 **Panel: Innovation and Digitalisation in the SSM**

Daniela Schackis, Mario Quagliariello (ECB)

Ralf Korn (RPTU Kaiserslautern-Landau)

Moderator: Jörg Osterrieder (University of Twente)

14:50 **Research Session 3: Risk Models and Industry Perspectives**

Matkovskyy, Dai, Giudici, Teng

14:50 **PhD Session 2: Text, Volatility and Climate Data in Risk Prediction**

Hoffmann, Raddi, Massei

15:50 Closing Remarks

Jörg Osterrieder, Łukasz Kubicki (ECB)