DiGiTAL WORKSHOPS

AI in Finance

CBDC, Blockchain & Cryptocurrencies
Challenges, Risks or Greater Opportunity?

Key dates for the workshop:

- **Workshop Proposals Deadline:** April 15, 2025
- **Review Results:** April 30, 2025
- **Full Chapters Due:** May 31, 2025
- **Event Date:** June 11, 2025
- **Tentative Publication Date *(for the book)*:** December 2025

Ayasofya Campus **June 11, 2025**

Contact: econ@fsm.edu.tr

FATIH SULTAN MEHMET VAKIF UNIVERSITY | FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES | DEPARTMENT OF ECONOMICS | PERPAL LAB | كلية الدراسات الإسلامية College of Islamic Studies جامعة حمد بن خليفة HAMAD BIN KHALIFA UNIVERSITY

Digital Workshops

AI in Finance:

AI, Big Data and Digital Currencies
Great Risk or Greater Opportunity?

Jointly organized by Fatih Sultan Mehmet Vakif University - Türkiye (FSMVU) and Hamad Bin Khalifa University-Qatar (HBKU).

Rationale of the Workshop

The workshop (jointly organized by FSMVU and HBKU) aims to provide an environment and a new platform to discuss recent trends in digitalization, AI and machine learning, contemporary business practices and technological developments in finance and economics. It provides a new platform to discuss, exchange ideas and learn about the latest developments related to CBDC, blockchain and cryptocurrencies as well as the broader digital and AI transformation. Challenges, risks and opportunities will also be discussed in detail.

In an era of innumerable innovations, rising trend of uncertainties and countless efforts to build new standards, the drivers behind this rapid and impressive developments shall matter as much. Relatively dynamic vanguard of innovations, cutting edge solutions and more efficient payment and transfer systems, pros and cons of digital currencies and new developments in the field of Central Bank Digital Currency will be examined thoroughly.

The workshop provides a new opportunity to discuss, learn and even shape the future of digitalization. The goal, hence, is to provide a space for open and active discussions about issues surrounding digital and AI transformation. The workshop aims to bring together different opinions, expectations, cutting-edge research in these new fields.

Artificial Intelligence (AI) and Digital Transformation

Digital transformation and artificial intelligence (AI) are revolutionizing the field of finance, reshaping how businesses operate and how they make decisions. At the core of this transformation lies the integration of advanced technologies into traditional processes, allowing for greater efficiency and enhanced data analysis.

Financial institutions leverage AI algorithms to efficiently utilize real-time big data, improving decision-making processes, manage risks better, and optimize operations. These technological advancements not only improve transaction speeds but also enhance customer experiences through personalized services, predictive analytics, and automation of routine tasks.

Moreover, the impact of digital transformation also extends to regulatory compliance, fraud detection, and investment strategies. AI systems adopt to identifying patterns and anomalies that may indicate fraudulent activities, which could lead to much more secure provisions.

In finance, AI-powered models are used often to anticipate certain trends in the market and consumer behavior, offering insights that help policymakers and businesses navigate complex economic landscapes. Yet as they mature, they are likely to assume more strategic functions in shaping financial systems and fostering innovation across various sectors.

Thus, digital transformation and artificial intelligence (AI) adoption has turned into a priority (and in many cases a necessity) for modern institutions and businesses alike. They both have significant impacts on daily interactions, or the way businesses are done. This workshop aims to elaborate on recent trends in digital transformation and AI usage, as well as contemporary business practices and technological developments, in finance.

With the AI, automated systems, programs or machines are created to do the jobs that would normally require human resource. An AI-powered automation is also dynamic and adopts to changes in information flows. Digitalization, on the other hand, is about use of digital technologies to transform business models, utilizing digital technologies and digitalizing businesses. Digitalization mostly depends on AI too.

However, they both should be done in such a way that they lead to innovation, efficiency and increased productivity. Accordingly, the goal is to harmonize theory and practical implications to enhance innovation and efficiency. Real world practical examples of the contemporary digitalization and technological transformation, as well as the green revolution are in order.

Meanwhile, in an era of innovations, rising trend of uncertainties and countless efforts to build new standards, significance of the twin transformations of AI and digitalization is a reality. They represent a relatively dynamic new environment. The drivers behind this rapid and impressive developments are also of major curiosity. The workshop provides a new opportunity to discuss, learn and even shape the future of digitalization and AI. It aims to bring together different opinions, expectations, cutting-edge research in these new fields together.

Analysis in this workshop are expected to summarize the drastic changes post the COVID-19 pandemic accelerating digital transformation, and the future of work. The workshop provides deep discussions, latest developments related to crypto or blockchain technologies, innovative new technological solutions and more efficient payment and transfer systems, as well as new developments in the field of Central Bank Digital Currency.

Digital Currencies, Digitalization and AI in accounting and e-invoicing are just a few examples of discussions. Efficiency is another key issue of this process. Generative AI or GenAI is expected to accelerate this process. Better use of data will also enable increased efficiency in business practices.

Topics (includes, but is not limited to):

Digital Transformation,

- Financial technologies,
- Payment technologies,
- Blockchain technology,
- Digital currencies,
- E-invoice, e-inventory, e-bookkeeping,
- E-commerce,
- Industry 4.0,
- Sustainable digital transformation,

Digitalization in Finance,

- FinTech,
- Digital banking,
- Payment technologies,
- Green Finance,
- Data science,
- Machine Learning in Finance,
- Sentiment analysis,
- Fraud detection,
- Algorithmic trading,
- Credit scoring,
- Blockchain,

Digitalization in public policies,

- AI in public policies,
- Digital energy and AI,
- FinTech in Public Institutions,

Artificial Intelligence,

- Generative AI,
- Machine learning,
- Machine Learning in Finance,
- AI based modelling,
- Deep learning,
- Cognitive computing,
- AI and future,
- AI and its applications in finance,

Big Data,

- Better use of data,
- Data analytics,
- AI and data analytics
- AI and data centers,

Digital Currencies,

- Adaptation of Digital Currency,
- Cryptocurrencies,

- Blockchain,
- CBDC,
- Tokenized assets,
- Interoperability,
- Cross-border payments,
- Offline payments,
- Design challenges,
- Financial inclusion,
- Privacy vs. security
- Traceability and privacy,
- Innovation vs. control,

Green Transformation,

- Green Finance,

Financial stability and banking supervision,

- Impacts on the banking sector,
- Financial stability,
- Risk management,
- Systemic risk,
- AI and banking,
- Policymaking and AI,

Other applications in finance

Risks, Opportunities and Challenges:

- Disruptions to the Markets,
- Systemic risk,
- Great Risk or Greater Opportunity?
- Efficiency
- Trust,
- Fairness,
- Privacy,
- Security,
- Changing mindset,
- AI at a crossroad – opportunities, risks, and the path forward,

Meanwhile, to make sure AI is reliable and applied for the good of people and the environment, it will be essential to have a common understanding of the opportunities and potential hazards. The pros and cons of new technologies and innovations such as CBDC and other digital currencies are underlined. Meanwhile, in its analysis over contemporary business practices and technological developments in finance, the workshop also aims to assess ways to overcome risks and harness the opportunities.

Other key topics

- Post-Pandemic Accelerating Digital Transformation,
- Digital Globalization,

- Digital economies and relevant digital policies,
- Embracing the technology frontier,
- Implications of AI on Finance,
- New Developments and Business Practices in the Financial Sector,
- Opportunities and challenges of digitalization,
- Opportunities and challenges of AI adoption,
- The information and communication technology (ICT) sector development,
- The Macroeconomic Impacts of Artificial Intelligence,
- Impact of Artificial Intelligence on Public Policy,
- Theoretical and practical aspects of digital currencies,
- The internet of things (IoT),
- Transforming Globalization,
- Digital supply networks,

Keywords: Digitalization, FinTechs, Blockchain, generative AI, Digital Currencies, CBDC, Green Finance, Payment technologies

Event details:

Workshop location: Ayasofya Campus, FSMVU
Date of event: **June 11, 2025**

Key dates for the workshop:

- Workshop Proposals Deadline: April 15, 2025
- Review Results: April 30, 2025
- Full Chapters Due: May 31, 2025
- Event date: June 11, 2025
- Tentative Publication Date (for the book): December 2025

Workshop policies:

A book (from one of the leading international publication houses) will be published out of the workshop submissions (in progress).

No submission or publication fee is required for the authors.

Please do not hesitate to get in touch, if you have any questions.

We look forward to hosting and working with the distinguished faculty focusing on these topics.

Best regards,

Further links:

- FSMVU Econ announcement: https://econ.fsm.edu.tr/etkinlik/AI-in-Finance-workshop2025-02-05-03-29-23am
- EcoPolitics Café Blog announcement: https://bilalbagis.wordpress.com/2025/02/05/ai-in-finance-workshop/

Contact info:
Bilal Bağış, Assoc. Prof.
econ@fsm.edu.tr

PERPAL Lab
Econ Department, FEAS, FSMVU
perpallab@gmail.com