



Dr. Alexander Didenko

Professor of Business Practice

Alexander_Didenko@skolkovo.ru

AI

Alexander Didenko is a Professor of Business Practice and the Head of the AI Laboratory at the SKOLKOVO School of Management. Concurrently, he leads the Department of AI Implementation in Education at Tyumen State University, where his research focuses on the psychology and neuroscience of neural networks—specifically mechanistic interpretability of LLMs and cognitive mechanisms of augmented systems. He is a researcher and entrepreneur with expertise at the intersection of economics, neuroscience, and data science.

In his earlier career, Dr. Didenko created algorithms for trading in financial markets and held executive positions in banking and education. He co-founded several startups, including 70! – a company involved in R&D on data analysis in financial markets. Currently he acts as scientific lead of data analytics team of MyInvest.Art, where he contributes to development of data-driven pricing algorithms for investment-grade art. In 2003, he received his PhD from Plekhanov Russian University of Economics with a dissertation at the intersection of behavioral economics and data science.

Current Research Focus:

- Mechanistic interpretability of LLMs – investigating internal architectures and activation patterns of large language models to understand emergent LLM cognitive mechanisms;
- Epistemic AI companions – developing LLMs as epistemically faithful partners that preserve and manage users' semantic capital through reliable knowledge representation;
- AI implementation dynamics – studies success factors of AI adoption in organizations through cognitive theory of the firm lens;
- Cultural alignment of LLMs – developing assessment tools using Hofstede's dimensions (Power Distance, Individualism/Collectivism) to measure AI's cultural biases;
- NLP-powered organizational diagnostics – analyzes communication patterns in corporate ecosystems;
- Multimodal emotion modeling – develops bio-social constructs of emotions using EEG, facial coding, and speech analytics integration.