



**ADMISSION TO DOCTORAL STUDIES**

**Session September 2022**

**Field of doctoral studies: Finance**

**Doctoral supervisor: Marius Sorin DINCĂ**

**TOPICS FOR THE ADMISSION TO DOCTORAL STUDIES**

**TOPIC 3: Using artificial intelligence (AI) to improve financial decision making in case of industrial companies**

**Content / Main aspects to be considered**

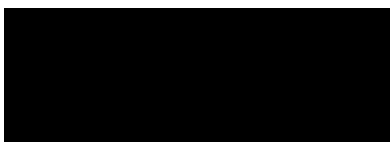
1. Current status of financial analysis and financial planning in the industrial companies
2. Using AI in setting current financial decisions for the industrial companies
3. Using AI in setting investment decisions for the industrial companies

**Recommended bibliography:**

1. Carta, S.; Podda, A.S. ; Recupero, D.R.; Stanciu, M.M., Explainable AI for Financial Forecasting, MACHINE LEARNING, OPTIMIZATION, AND DATA SCIENCE (LOD 2021), PT II, Book Series Lecture Notes in Computer Science, Volume 13164, Page 51-69, DOI 10.1007/978-3-030-95470-3\_5, Published 2022; Document Type Proceedings Paper;
2. Niessner, T.; Nickerson, R.C.; Schumann, M., Towards a taxonomy of AI-based methods in Financial Statement Analysis Completed Research, Assoc Informat Syst, Conference DIGITAL INNOVATION AND ENTREPRENEURSHIP (AMCIS 2021), Published 13.9.2021, Proceedings Paper Conference Meeting 27th Annual Americas Conference on Information Systems (AMCIS)
3. Kumar, S.; Sharma, R., Applications of AI in Financial System, MAXIMIZING BUSINESS PERFORMANCE AND EFFICIENCY THROUGH INTELLIGENT SYSTEMS Book Series Advances in Business Information Systems and Analytics, Page 101-109, DOI 10.4018/978-1-5225-2234-8.ch005, Published 2017, Article; Book Chapter

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