

International Scientific Multidisciplinary Conference  
AI for a Smarter Tomorrow  
**AI-SMART 2025**



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# BOOK OF ABSTRACTS



International Scientific Multidisciplinary Conference:  
AI-SMART 2025

*Artificial Intelligence (AI) for a Smarter Tomorrow*

## **BOOK OF ABSTRACTS**

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*Artificial Intelligence (AI) for a Smarter Tomorrow*

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## Unpacking Cybersecurity in Financial Research: A Systematic Mapping Approach

### Scientific review article

**Leoš Šafár** 

Technical University of Košice, Faculty of Economics, Department of Banking and Investment, Némcovej 32, 040 01 Košice, Slovakia

**Michal Mešťan** 

Matej Bel University in Banská Bystrica, Faculty of Economics, Department of Finance and Accounting, Tajovského 10, 975 90 Banská Bystrica, Slovakia

**Jakub Sopko** 

Technical University of Košice, Faculty of Economics, Department of Banking and Investment, Némcovej 32, 040 01 Košice, Slovakia

**Abstract:** *This study presents a comprehensive bibliometric and content analysis of cybersecurity research in financial institutions covering the period from 2000 to 2025. By applying the PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analyses) methodology, we systematically identified and screened 2,005 peer-reviewed articles indexed in the Web of Science Core Collection. The review focuses on cybersecurity within the financial system, particularly in the banking and insurance sectors, and maps research trends, innovation gaps, and thematic evolutions in this domain. The thematic analysis on the basis of keyword co-occurrence identified three distinct clusters. The first cluster focuses on cybersecurity and artificial intelligence, including keywords such as cybersecurity, phishing, malware, and machine learning, highlighting AI-driven threat detection and digital defense mechanisms. The second cluster focuses on institutional risk management and information security, emphasizing governance, authentication, and systemic controls within financial institutions. The third cluster involves emerging digital technologies, such as blockchain, cloud computing, and FinTech, underscoring the technological innovations that shape financial services and data protection frameworks. Despite growing research output and increasing attention to cyber risk from both academic and regulatory perspectives, the field remains fragmented, with limited empirical evaluation of cybersecurity investment effectiveness. By combining PRISMA guidelines with bibliometric mapping, this study offers a structured and interdisciplinary overview of cybersecurity research in financial institutions. It highlights key research frontiers and calls for deeper empirical inquiry, particularly on systemic financial risk, cross-sector governance, and cybersecurity policy design.*

**Keywords:** *Cybersecurity, Financial institutions, PRISMA, Bibliometric analysis, Operational risk, Cyber resilience*