

The Role of Technology in Modern Banking

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Abstract. This article analyzes the transformative impact of technology on modern banking practices. Focusing on digital innovations and fintech developments, the study examines how technology enhances efficiency, security, and customer satisfaction in the banking industry. The research highlights key technological trends and their implications for the future of banking.

Keywords: Technology, Banking, Fintech, Digital Innovation, Customer Experience

Introduction

The banking sector is undergoing a significant transformation, driven by rapid technological advancements. This paper explores how modern technologies, including digital platforms, artificial intelligence, and blockchain, are reshaping banking services. By investigating the integration of these technologies into banking operations, the study assesses their impact on efficiency, security, and customer experience. The research also discusses the potential challenges and opportunities that arise from technology-driven banking.

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References

1. Shaparev, A., Avvakumov, I., Movlazade, V., Nadirov, U., Rahimov, J., & Babayev, L. (2025). TECHNOLOGICAL FEATURES LASER CUTTING COPPER AND BRASS. Reliability: Theory & Applications, 20(SI 7 (83)), 320-327.
2. Jeyhun, R., Elshan, R., Naila, A., & Aydin, N. (2025). Effectiveness of Internet of Things migration into hybrid economic projects.
3. Rahimov, J., Rahimov, E., Nasirzade, A., & Yusifli, P. (2025). Economic aspects of projects based on the Internet of Things. Innovation and Sustainability Articles, 5(4), 31-44.

4. оглу Рагимов, Э. Р., & оглу Искендерзаде, Э. Б. (2023). ЭФФЕКТИВНЫЕ МЕТЕОРОЛОГИЧЕСКИЕ АСПЕКТЫ ПРИМЕНЕНИЯ НАНОТЕХНОЛОГИЧЕСКОЙ ПРОДУКЦИИ В ТРАНСПОРТНОЙ СФЕРЕ. Сетевое издание «Нефтегазовое дело», (1), 126-142.
5. Kelmendi, J., Beqiri, A., Shuajibi, E., Talibzade, O., & Ketners, K. (2025). The impact of geopolitical tensions on global supply chains and international trade. *Jurnal Ilmiah Ilmu Terapan Universitas Jambi*, 9(2).
6. Talibzade, O. (2022). Organization of expenses in budget management, enterprises and organizations. *Geostrategy*, 71 (5), 112–114.
7. Moraliyska, M. (2025). Reshoring Supply Chains in EU-US Collaboration after COVID: A Case Study Analysis. *Pamukkale Üniversitesi İşletme Araştırmaları Dergisi*, 12(2), 497-521.
8. Moraliyska, M., & Antonova, A. (2018). Preparing for industry 4.0 and digital transformations in SMEs. European and national aspects. *Godishnik na UNSS*, 1, 191-207.
9. Rzayeva, F. (2025). Technology in Financial Services: 10 Key Tools. *Science, Education and Innovations in the Context of Modern Problems*, 8(3), 546-559.
10. Chechelashvili, M., Berikashvili, L., & Malania, E. (2020). Marketing of tourism region as a necessary condition of effective management by regional tourism. *Globus*, 5, 71-75.
11. Chechelashvili, M., Berikashvili, L., Malania, E., Rostiashvili, T., & Soselia, M. (2019). Cluster Politics of Region Development: The Best Practice of USA. *American Scientific Journal*, (30), 90.
12. Maia, C., & Lia, B. (2018). The main criteria for lead generation. *European science review*, (7-8), 317-319.