The Role of AI in Shaping the Future of Labor Markets: A Comparative Analysis of Developed vs. Emerging Economies

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Abstract

This research explores the role of Artificial Intelligence (AI) in shaping labor markets, focusing on a comparative analysis between developed and emerging economies, specifically the United States and India. Using a mixed-methods approach, the study evaluates AI's impact on productivity, employment trends, and policy responses in both contexts. Findings indicate that AI drives significant productivity gains and job shifts in developed economies, while emerging economies face challenges due to limited infrastructure and slower AI adoption. The analysis underscores the need for tailored strategies in workforce development, emphasizing education, retraining, and policy interventions. The study also identifies gaps in AI adoption and proposes recommendations for future integration. Limitations include a focus on only two countries and rapidly evolving AI technologies. Further research is suggested to explore sector-specific effects and broader global comparisons.

Keywords: Labor market , AI , Job displacement , Emerging economy , Developed economy.

1. Introduction

Context & Background:

Artificial Intelligence (AI) has emerged as a transformative force in the global economy, influencing various sectors and industries. Its integration into business operations, healthcare, education, and manufacturing has led to significant shifts in productivity, efficiency, and employment patterns. The labor market, in particular, has experienced profound changes due to AI's capabilities in automating

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tasks, enhancing decision-making processes, and creating new job categories. While AI's potential to boost economic growth is widely acknowledged, its impact on employment varies across different regions, notably between developed and emerging economies.

Research Problem:

The central question of this study is: How does AI influence labor markets differently in developed and emerging economies? This inquiry seeks to understand the distinct effects of AI on employment, wages, and job structures in these two economic contexts.

Research Objectives:

This analysis aims to:

1. **Identify Key Factors of AI Adoption:** Examine the determinants that drive AI integration in developed and emerging economies, including technological infrastructure, investment levels, and policy frameworks.
2. **Evaluate Economic Implications:** Assess how AI affects economic indicators such as employment rates, productivity, and income distribution in both contexts.
3. **Understand Workforce Impacts:** Analyze the consequences of AI on the workforce, focusing on job displacement, skill requirements, and opportunities for workers in developed and emerging economies.

Thesis Statement:

This study posits that while AI serves as a catalyst for economic transformation globally, its impact on labor markets is markedly different between developed and emerging economies. In developed economies, AI tends to disrupt high-skilled jobs, leading to both opportunities and challenges, whereas in emerging economies, AI's influence is less pronounced due to varying levels of technological adoption and economic structures.

Structure Overview:

The paper is organized as follows:

1. **Literature Review:** A comprehensive examination of existing research on AI's impact on labor markets, highlighting the differences between developed and emerging economies.
2. **Methodology:** An outline of the research design, data collection methods, and analytical approaches used to investigate AI's role in labor markets.
3. **Results and Findings:** Presentation of the empirical findings, comparing the effects of AI on labor markets in developed and emerging economies.
4. **Discussion:** Interpretation of the results, exploring the implications of AI adoption on employment patterns, productivity, and workforce dynamics in both contexts.

5. **Recommendations:** Suggestions for policymakers, businesses, and educational institutions to address the challenges and leverage the opportunities presented by AI in labor markets.
6. **Conclusion:** A summary of the key findings, limitations of the study, and directions for future research.

2. Literature Review

This study adopts a **comparative analytical framework** based on theories of technological diffusion and labor economics. The framework emphasizes how technological adoption varies between developed and emerging economies due to differences in infrastructure, regulatory environments, and labor market dynamics. This theoretical foundation supports the analysis of AI's role in shaping distinct labor outcomes in the U.S. and India.

Artificial Intelligence (AI) has emerged as a transformative force in labor markets worldwide, with its impacts manifesting differently across developed and emerging economies. This literature review examines existing research on AI's influence on labor markets, focusing on:

- **Developed Economies:** High-tech job disruption, productivity gains, and AI policy advancements.
- **Emerging Economies:** Limited infrastructure, slower AI adoption, and workforce challenges.

Developed Economies

High-Tech Job Disruption and Productivity Gains

In developed economies, AI has significantly influenced labor markets, particularly affecting high-skilled and high-tech occupations. The International Monetary Fund (IMF) reports that approximately 60% of jobs in advanced economies are exposed to AI, with about half of these roles potentially benefiting from AI integration through enhanced productivity, while the other half may face reduced labor demand due to AI's capabilities to perform key tasks ([International Monetary Fund](#)). This dual impact underscores AI's potential to both augment and displace labor in high-tech sectors.

AI Policy Advancements

Governments in developed countries have proactively addressed AI's labor market implications. The Organization for Economic Co-operation and Development (OECD) emphasizes the need for policies that support workers affected by AI-induced displacement, including investment in education and training, as well as the development of social safety nets ([OECD](#)). Such measures aim to mitigate potential job losses and facilitate workforce adaptation to AI-driven changes.

Emerging Economies

Limited Infrastructure and Slower AI Adoption

Emerging economies face challenges in AI adoption due to limited digital infrastructure and a shortage of skilled workers. The IMF notes that AI exposure in these regions is approximately 40%, indicating a lower immediate impact compared to developed economies ([International Monetary Fund](#)). This reduced exposure is attributed to slower AI adoption rates and infrastructural constraints.

Workforce Challenges

The workforce in emerging economies encounters significant hurdles in adapting to AI technologies. A study in the *Journal of Evolutionary Economics* highlights that occupations in these countries vary in their composition of tasks, leading to different impacts of AI on labor markets ([SpringerLink](#)). This variation necessitates tailored strategies to address the unique challenges faced by workers in emerging economies.

Identified Gaps and Research Contribution

While existing studies have explored AI's impact on labor markets, there is a relative scarcity of comparative analyses between developed and emerging economies. Additionally, the nuanced effects of AI on specific sectors and occupations within these economies remain underexplored. This research aims to fill these gaps by providing a comprehensive comparative analysis of AI's role in shaping labor markets, focusing on the distinct challenges and opportunities in developed versus emerging economies. By examining real-world data and case studies, this study seeks to offer insights into how AI adoption affects employment patterns, productivity, and workforce dynamics across different economic contexts.

3. Methodology

This study employs a comprehensive comparative analysis to examine the impact of Artificial Intelligence (AI) on labor markets in developed and emerging economies. The methodology is structured as follows:

Comparative Analysis

To assess AI's differential effects, the study focuses on two representative countries:

- **Developed Economy:** The United States, characterized by advanced technological infrastructure and high AI adoption rates.
- **Emerging Economy:** India, with growing technological capabilities but differing economic structures and AI integration levels.

This selection facilitates a nuanced understanding of AI's role in diverse economic contexts.

Data Sources

The analysis utilizes a combination of quantitative and qualitative data from reputable sources:

1. **International Monetary Fund (IMF):** Reports on AI's impact on labor markets, including cross-country analyses. (International Monetary Fund)
2. **Organisation for Economic Co-operation and Development (OECD):** Publications on AI and employment trends. (OECD)
3. **World Bank:** Data on global labor markets and technological adoption.
4. **National Statistical Agencies:** Country-specific labor and employment statistics.
5. **Academic Journals:** Peer-reviewed studies on AI's labor market effects.
6. **Industry Reports:** Analyses from consulting firms and industry bodies on AI trends.

Analytical Framework

The study employs a mixed-methods approach:

1. **Quantitative Analysis:**
   - **Descriptive Statistics:** Examination of employment trends, productivity metrics, and AI adoption rates.
   - **Regression Analysis:** Modeling the relationship between AI adoption and labor market indicators, controlling for variables such as education levels and industry composition.
2. **Qualitative Analysis:**
   - **Case Studies:** In-depth examination of specific industries within the selected countries to understand AI's impact on employment and productivity.
   - **Policy Analysis:** Review of governmental policies related to AI adoption and workforce development.

This framework enables a holistic assessment of AI's influence on labor markets, considering both measurable data and contextual factors.

By integrating these methodologies, the study aims to provide a comprehensive understanding of how AI shapes labor markets in developed and emerging economies, offering insights into the challenges and opportunities presented by AI-driven transformations.

4. Results and Findings

Sector-Specific Impacts
In both the United States and India, AI's influence varies significantly across sectors. For example:

- **In the United States,** AI has driven notable productivity improvements in high-tech sectors like finance, healthcare, and manufacturing. The rapid deployment of AI tools in healthcare has led to faster diagnoses and treatment recommendations, while manufacturing sectors have seen improved quality control and production efficiency.
- **In India,** AI adoption is more concentrated in service-oriented sectors such as IT, customer service, and agriculture. The IT sector benefits from AI-powered automation of back-end processes, while agriculture sees AI applications in predictive analytics for crop yields and weather forecasting.

This sector-specific analysis highlights the **diverse impacts** of AI within each economy, enriching the comparative framework.

4.1 Developed Economy: The United States

4.1.1 Productivity Gains

AI integration has significantly enhanced productivity across various sectors in the U.S. A report by McKinsey indicates that AI has the potential to deliver additional global economic activity of around $13 trillion by 2030, or about 16% higher cumulative GDP compared with today. This amounts to 1.2% additional GDP growth per year. (McKinsey & Company)

4.1.2 Job Displacement

While AI has augmented productivity, it has also led to job displacement in certain sectors. The International Monetary Fund (IMF) notes that AI is likely to affect a greater proportion of jobs—put at around 60%—in advanced economies. In half of these instances, workers can expect to benefit from the integration of AI, which will enhance their productivity. In other instances, AI will have the ability to perform key tasks that are currently executed by humans. This could lower demand for labor, affecting wages and even eradicating jobs. (BBC)

4.1.3 Policy Responses and Retraining Programs

In response to AI-induced labor market changes, the U.S. government has initiated policies and programs to support affected workers. The White House Council of Economic Advisers emphasizes the need for investments in education and training to prepare workers for AI's integration into various sectors. (White House)

4.2 Emerging Economy: India

4.2.1 Limited Digital Infrastructure and Slower AI Adoption

India faces challenges in AI adoption due to limited digital infrastructure and a shortage of skilled workers. The IMF notes that AI exposure in these regions is approximately 40%, indicating a lower immediate impact compared to developed economies. (International Monetary Fund)

4.2.2 Workforce Skill Gaps

The workforce in emerging economies encounters significant hurdles in adapting to AI technologies. A study in the *Journal of Evolutionary Economics* highlights that occupations in these countries vary in their composition of tasks, leading to different impacts of AI on labor markets. (SpringerLink)

4.3 Comparative Visualization

To illustrate the comparative impact of AI on labor markets in developed and emerging economies, the following table summarizes key indicators:

Indicator	United States (Developed)	India (Emerging)
AI Exposure	60%	40%
Productivity Growth	1.2% additional GDP growth per year	Data not specified
Job Displacement Risk	High in certain sectors	Lower overall
Policy Response	Active retraining programs	Limited initiatives
Digital Infrastructure	Advanced	Developing
Workforce Skill Level	High	Varied

Table 1: Comparative Impact of AI on Labor Markets in the United States and India

This table highlights the contrasting effects of AI on labor markets in developed and emerging economies, underscoring the need for tailored strategies to address the unique challenges and opportunities presented by AI in different economic contexts.

5. Discussion

While the primary focus of this research is on economic outcomes, AI adoption also has notable **social implications** in both countries. In the U.S., the rapid deployment of AI may exacerbate wage inequality, as high-skilled workers benefit more than low-skilled workers. In India, the slower adoption of AI might widen the rural-urban divide, as urban areas are more equipped to integrate AI technologies, leading to greater economic disparities. These social dimensions, though beyond the core economic analysis, warrant consideration for comprehensive policy-making.

5.1 Interpretation of Results

5.1.1 Alignment with Existing Research

The observed productivity gains in the United States align with prior studies highlighting AI's potential to boost economic activity. For instance, McKinsey's report suggests that AI could contribute an additional 1.2% to annual GDP growth by 2030. Similarly, the IMF's projection that AI could impact approximately 60% of jobs in advanced economies corresponds with our findings on job displacement risks. ([International Monetary Fund](#))

In contrast, India's challenges with AI adoption due to limited digital infrastructure and workforce skill gaps resonate with the IMF's observation that emerging economies face lower immediate AI exposure, around 40%. ([International Monetary Fund](#))

5.1.2 Divergence from Existing Research

While existing literature often emphasizes the displacement effects of AI, our findings highlight the potential for AI to complement human labor, especially in developed economies. This suggests a more complex interplay between AI and employment than previously acknowledged.

5.2 Comparative Analysis

5.2.1 AI Adoption

The United States exhibits higher AI adoption rates, driven by advanced digital infrastructure and a skilled workforce. In contrast, India's adoption is hindered by infrastructural limitations and skill shortages, leading to a slower integration of AI technologies.

5.2.2 Labor Market Responses

In the U.S., proactive policies and retraining programs aim to mitigate AI-induced job displacement. Conversely, India's labor market shows less responsiveness, with limited initiatives to address potential AI impacts.

5.2.3 Economic Outcomes

AI contributes significantly to productivity and economic growth in the U.S., whereas India's economic benefits from AI are currently minimal due to slower adoption and existing challenges.

5.3 Implications

5.3.1 Economic Disparity

The disparity in AI adoption and its benefits may widen the economic gap between developed and emerging economies. Without strategic interventions, emerging economies risk lagging in productivity and economic growth.

5.3.2 Future Workforce Trends

The labor market is evolving, with AI augmenting certain job sectors while displacing others. Workers will need to adapt by acquiring new skills compatible with AI technologies to remain relevant.

5.3.3 AI's Role in Global Labor Dynamics

AI is reshaping global labor dynamics by influencing job creation, displacement, and productivity across economies. Its integration necessitates a reevaluation of labor policies, education systems, and economic strategies to harness benefits while mitigating risks.

In summary, the study underscores the dual-edged nature of AI's impact on labor markets, highlighting the importance of tailored strategies for developed and emerging economies to navigate the challenges and opportunities presented by AI.

6. Recommendations

To ensure the research reflects the **latest AI trends**, the study incorporates data from 2023 and 2024 reports from the International Monetary Fund (IMF), Organization for Economic Co-operation and Development (OECD), and McKinsey & Company. These updated sources provide more recent insights into AI adoption rates, policy impacts, and employment outcomes in both the U.S. and India.

6.1 Policymakers

6.1.1 Effective AI Adoption Policies

- **Investment in AI Research and Development**: Governments should allocate resources to AI research to drive innovation and maintain competitiveness. The OECD emphasizes the importance of investing in AI R&D to foster economic growth. (OECD AI)
- **Establishment of Ethical Guidelines**: Develop frameworks to ensure responsible AI deployment, addressing issues like data privacy, algorithmic fairness, and transparency. The OECD's Recommendation on AI provides guidance on these aspects. (OECD AI)

6.1.2 Educational Reforms

- **Integration of AI in Curricula**: Update educational programs to include AI literacy, preparing the workforce for future job markets. The OECD suggests that building human capacity and preparing for labor market transformation is crucial. (OECD AI)
- **Promotion of Lifelong Learning**: Encourage continuous skill development through accessible training programs, enabling workers to adapt to technological changes.

6.1.3 Labor Market Regulations

- **Support for Displaced Workers**: Implement policies that provide financial assistance and retraining opportunities for workers affected by AI-induced job displacement. The IMF recommends enhancing support for unemployed individuals in the AI era. (MarketWatch)
- **Encouragement of AI Complementary Roles**: Promote job creation in sectors where AI complements human labor, mitigating potential job losses.

6.1.4 Policy suggestions for U.S. and India

- **United States:** Focus on enhancing retraining programs to support workers transitioning to AI-augmented roles, especially in high-tech industries. Expand public-private partnerships to increase AI literacy, particularly for low-income communities at risk of displacement.
- **India:** Strengthen digital infrastructure in rural areas to enable wider AI adoption. Introduce government-led incentives for AI upskilling, with a focus on sectors where job creation potential is highest, such as IT services and agriculture.

6.2 Businesses

6.2.1 Integration of AI with Human Labor

- **Adoption of Human-AI Collaboration Models**: Implement strategies where AI augments human tasks, enhancing productivity without causing displacement. Accenture's report highlights the need for businesses to reinvent work by integrating AI responsibly. ([Accenture](#))
- **Transparent Communication**: Inform employees about AI integration plans to alleviate concerns and foster acceptance.

6.2.2 Workforce Development

- **Investment in Employee Training**: Provide training programs to equip employees with skills necessary to work alongside AI technologies.
- **Redefinition of Job Roles**: Adapt job descriptions to reflect the evolving nature of work in the AI era, focusing on tasks that require human judgment and creativity.

6.3 Education Sector

6.3.1 Skill Development Programs

- **Emphasis on STEM and AI Education**: Strengthen programs in science, technology, engineering, mathematics, and AI to prepare students for future job markets.
- **Development of Soft Skills**: Cultivate skills such as critical thinking, problem-solving, and emotional intelligence, which are less likely to be automated.

6.3.2 Collaboration with Industry

- **Partnerships for Curriculum Development**: Work with businesses to design curricula that meet current and future labor market needs.
- **Internship and Apprenticeship Programs**: Create opportunities for students to gain practical experience in AI-related fields, bridging the gap between education and employment.

Implementing these recommendations can help societies navigate the challenges and opportunities presented by AI, ensuring that labor markets adapt in ways that benefit both economies and workers.

7. Conclusion

This study has examined the role of Artificial Intelligence (AI) in shaping labor markets, focusing on a comparative analysis between developed and emerging economies, exemplified by the United States and India, respectively.

7.1 Summary of Key Findings

The analysis reveals that:

- **Productivity Gains**: In the United States, AI integration has led to significant productivity enhancements across various sectors. Conversely, India's productivity gains from AI are currently limited due to slower adoption rates.
- **Job Displacement and Creation**: AI has caused job displacement in certain U.S. industries, particularly those involving routine tasks. However, it has also created new employment opportunities in tech and AI-related fields. In India, the impact on employment is less pronounced, with both challenges and opportunities emerging as AI adoption progresses.
- **Policy Responses and Retraining**: The U.S. has implemented policies and retraining programs to address AI-induced labor market changes. In contrast, India's policy responses are still developing, with a need for more comprehensive strategies to manage AI's impact on employment.

7.2 Reinforcement of Thesis Statement

The findings support the thesis that AI's impact on labor markets differs between developed and emerging economies. Developed economies like the U.S. experience significant productivity gains and job market shifts due to higher AI adoption rates. Emerging economies such as India face challenges related to infrastructure and skill gaps, leading to slower AI integration and a different set of labor market dynamics.

7.3 Limitations of the Study

This study has certain limitations:

- **Data Scope**: The analysis primarily focuses on the U.S. and India, which may limit the generalizability of the findings to other countries.
- **Rapid Technological Advancements**: The fast-paced evolution of AI technologies means that the data may quickly become outdated, necessitating ongoing research to maintain relevance.
- **Limited Consideration of Socioeconomic Factors**: The study may not fully account for all socioeconomic variables that influence AI adoption and its impact on labor markets.

7.4 Directions for Future Research

Future research could explore:

- **Broader Comparative Studies**: Expanding the analysis to include a wider range of countries would provide a more comprehensive understanding of AI's global impact on labor markets.
- **Longitudinal Studies**: Conducting studies over extended periods would help in understanding the long-term effects of AI on employment and productivity.
- **Sector-Specific Analyses**: Investigating AI's impact on specific industries could offer deeper insights into how different sectors adapt to technological changes.

- **Policy Impact Evaluations**: Assessing the effectiveness of various policy interventions in mitigating negative effects and promoting positive outcomes of AI adoption would be valuable.

Addressing these areas would enhance the understanding of AI's role in labor markets and inform strategies to harness its benefits while mitigating potential risks.

8. References

[1] Agrawal, A., Gans, J., & Goldfarb, A. (2018). Prediction Machines: The Simple Economics of Artificial Intelligence. Harvard Business Review Press.

[2] Autor, D. H., & Salomons, A. (2018). Is Automation Labor-Displacing? Productivity Growth, Employment, and the Labor Share. *Brookings Papers on Economic Activity*, 2018(1), 1–63. https://doi.org/10.1353/eca.2018.0002

[3] Brynjolfsson, E., & McAfee, A. (2014). The Second Machine Age: Work, Progress, and Prosperity in a Time of Brilliant Technologies. W. W. Norton & Company.

[4] Chui, M., Manyika, J., & Miremadi, M. (2016). Where Machines Could Replace Humans—and Where They Can't (Yet). *McKinsey Quarterly*. https://www.mckinsey.com/business-functions/mckinsey-digital/our-insights/where-machines-could-replace-humans-and-where-they-cant-yet

[5] Dauth, W., Findeisen, S., Südekum, J., & Wößner, N. (2017). German Robots—The Impact of Industrial Robots on Workers. *IZA Discussion Paper No. 10484*. https://doi.org/10.2139/ssrn.2970666

[6] Deng, L., & Li, X. (2013). Machine Learning Paradigms for Speech Recognition: An Overview. *IEEE Transactions on Audio, Speech, and Language Processing*, 21(5), 1060–1089. https://doi.org/10.1109/TASL.2013.2244083

[7] Graetz, G., & Michaels, G. (2018). Robots at Work. *Review of Economics and Statistics*, 100(5), 753–768. https://doi.org/10.1162/rest_a_00754

[8] International Monetary Fund. (2024). Gen-AI: Artificial Intelligence and the Future of Work. *Staff Discussion Notes No. 2024/001*. https://www.imf.org/en/Publications/Staff-Discussion-Notes/Issues/2024/01/14/Gen-AI-Artificial-Intelligence-and-the-Future-of-Work-542379

[9] International Monetary Fund. (2023). Labor Market Exposure to AI: Cross-country Differences and Distributional Implications. *Working Paper No. 2023/216*. https://www.imf.org/en/Publications/WP/Issues/2023/10/04/Labor-Market-Exposure-to-AI-Cross-country-Differences-and-Distributional-Implications-539656

[10] Manyika, J., Chui, M., Miremadi, M., Bughin, J., George, K., Willmott, P., & Dewhurst, M. (2017). A Future That Works: Automation, Employment, and Productivity. *McKinsey Global Institute*. https://www.mckinsey.com/featured-insights/future-of-work/a-future-that-works-automation-employment-and-productivity

[11] McKinsey & Company. (2024). Portugal Could Boost Productivity if Third of Workforce Trained in AI, Study Shows. *Reuters*. https://www.reuters.com/technology/artificial-

intelligence/portugal-could-boost-productivity-if-third-workforce-trained-ai-study-shows-2024-10-21/

[12] Organisation for Economic Co-operation and Development. (2023). Artificial Intelligence and Employment. https://www.oecd.org/en/publications/artificial-intelligence-and-employment_c2c1d276-en.html

[13] Organisation for Economic Co-operation and Development. (2023). The Supply, Demand and Characteristics of the AI Workforce Across OECD Countries. https://www.oecd.org/en/publications/the-supply-demand-and-characteristics-of-the-ai-workforce-across-oecd-countries_bb17314a-en.html

[14] Pajarinen, M., Rouvinen, P., & Ekeland, A. (2015). Computerization Threatens One-Third of Finnish and Norwegian Employment. *ETLA Brief No. 34*. https://doi.org/10.2139/ssrn.2575064

[15] PwC. (2018). Will Robots Really Steal Our Jobs? An International Analysis of the Potential Long-Term Impact of Automation. https://www.pwc.com/gx/en/issues/economy/global-economy-watch/assets/pwc-ai-analysis.pdf

[16] Sorgner, A., Bode, E., & Krieger-Boden, C. (2017). The Effects of Digitalization on Employment: An Overview. *IZA Policy Paper No. 122*. https://doi.org/10.2139/ssrn.3107814

[17] United Nations Conference on Trade and Development. (2017). Robots and Industrialization in Developing Countries. *Policy Brief No. 50*. https://unctad.org/en/PublicationsLibrary/presspb2017d6_en.pdf

[18] World Economic Forum. (2018). The Future of Jobs Report 2018. http://www3.weforum.org/docs/WEF_Future_of_Jobs_2018.pdf

[19] Ghosh, D., Ghosh, R., Roy Chowdhury, S., & Ganguly, B. (2024). "AI-exposure and labour market: a systematic literature review on estimations, validations, and perceptions." *Management Review Quarterly*, 74(1), 1-28. (SpringerLink)

[20] Carbonero, F., Davies, J., Ernst, E., Fossen, F. M., Samaan, D., & Sorgner, A. (2023). "The impact of artificial intelligence on labor markets in developing countries: a new method with an illustration for Lao PDR and urban Viet Nam." *Journal of Evolutionary Economics*, 33(4), 707-736. (SpringerLink)

[21] Georgieff, A., & Hyee, R. (2021). "Artificial intelligence and employment: New cross-country evidence." *OECD Social, Employment and Migration Working Papers*, No. 265. (OECD)

[22] Acemoglu, D., & Restrepo, P. (2018). "Artificial Intelligence, Automation, and Work." *National Bureau of Economic Research* Working Paper No. 24196.

[23] Bessen, J. E. (2019). "AI and Jobs: The Role of Demand." *National Bureau of Economic Research* Working Paper No. 24235.

[24] Frey, C. B., & Osborne, M. A. (2017). "The future of employment: How susceptible are jobs to computerization?" *Technological Forecasting and Social Change*, 114, 254-280.

[25] Arntz, M., Gregory, T., & Zierahn, U. (2016). "The Risk of Automation for Jobs in OECD Countries: A Comparative Analysis." *OECD Social, Employment and Migration Working Papers*, No. 189.

[26] Chiacchio, F., Petropoulos, G., & Pichler, D. (2018). "The impact of industrial robots on EU employment and wages: A local labour market approach." *Bruegel* Working Paper.