

Robotic Process Automation (RPA) in Business Processes: Benefits and Challenges

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Abstract: *Robotic Process Automation (RPA) has emerged as a transformative technology in the realm of business process automation. This research paper investigates the benefits and challenges of implementing RPA in various business processes. The paper provides an overview of RPA, highlighting its key features and capabilities. It then identifies the challenges faced by organizations during RPA adoption and implementation. The research also explores existing RPA systems and analyzes their strengths and limitations. A proposed RPA system is presented, aiming to address the identified challenges and enhance the overall efficiency of business processes. The findings reveal that RPA offers significant advantages in terms of increased productivity, cost savings, and improved accuracy, but it also requires careful planning and management to overcome potential hurdles. This research paper contributes valuable insights into RPA's integration and deployment, enabling organizations to make informed decisions on adopting this transformative technology.*

Keywords: Robotic Process Automation, RPA, Business Processes, Automation, Benefits, Challenges.

REFERENCES

- [1]. Robotic robotization Emerges as a trouble to Traditional Low- Cost Outsourcing, HfS Research, archived from the original on2015-09-21
- [2]. DeBrusk, Chris(24 October 2017)." Five Robotic Process robotization pitfalls to Avoid". MIT Sloan Management Review. recaptured 28 June 2018.
- [3]. Lacity, MaryC.; Willcocks, Leslie(19 June 2015)," What knowledge workers stand to gain from robotization", Harvard Business Review
- [4]. Robotic Process robotization at Xchanging(PDF), London School of Economics
- [5]. Gartner Predicts 2014 Business and IT Services Are Facing the End of Outsourcing as We Know It, Gartner
- [6]. THE FUTURE OF EMPLOYMENT HOW SUSCEPTIBLE ARE JOBS TO COMPUTERISATION?, archived from the original on2016-02-05
- [7]. Nine likely scripts arising from the growing use of software robots(PDF), London School of Economics
- [8]. White Collar Robots The Virtual pool, TEDx Addresses
- [9]. Digital Robots for Everyone, TEDx Addresses
- [10]. Aksoy, Cevat Giray; Özcan, Berkay; Philipp, Julia(2021-05-01)." Robots and the gender pay gap in Europe". European Economic Review. 134103693. doi10.1016/j.eurocorev.2021.103693. ISSN 0014- 2921. S2CID 233835919.
- [11]. Technologies, AIMDek(2018-08-29)." elaboration of Robotic Process robotization(RPA) The Path to Cognitive RPA". Medium. recaptured2019-01-28.
- [12]. "RPAAI-Robotic Process robotization".rpaai.com(in Dutch). Archived from the original on2020-08-15. recaptured2020-05-06.
- [13]. "Gartner Top 10 Strategic Technology Trends for 2020". Gartner.
- [14]. "Hyperautomation among top 10 technology trends for 2020". Tech Republic. 21 October 2019.

BIBLIOGRAPHY

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