

Liverpool, 14.07.2021

## **The Challenges Faces Businesses in Using Big Data**

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### **ABSTRACT**

The remarkable willingness among businesses to embrace Big Data techniques have been hindered by a number of reasons. Such as, the lack of IT infrastructure and the use of old fashion methods/ tools that manage and analyse information. Another obstacle would be the resistance of change, which demotivate policymakers to implement new technology such as big data, especially in data analytics. In addition, the human capital/scientists prove to be difficult to secure with the required skills that enable them to implement and benefits from such advanced technology. Furthermore, businesses vary in terms of data usage and law and regulations, hence privacy and security play a significant role in determining the use of big data. Importantly, innovation proves to be vital in nowadays businesses, and therefore, implementing big data could enhance other services such as fraud detection, risk management and many more.

As businesses live in a transitions period, therefore, in order to deal with such transformational, many challenges need to be eased as highlighted above to appreciate and benefits from such advanced technology.

### **KEYWORDS**

Technology, Accounting and Auditing Functions, Big Data, Multinational Businesses

### **REFERENCES**

- ALMOQREN, N. and ALTAYAR, M. 2016. The motivations for big data mining technologies adoption in Saudi banks. 1–8. <https://doi.org/10.1109/KACSTIT.2016.7756075>
- CORTINA, L. J. and SCHMUKLER, S. L., 2018. The Fintech Revolution: A Threat to Global Banking?. *World Bank Research and Policy Briefs*, (125038).
- DICUONZO, G., GALEONE, G., ZAPPIMBULSO, E. and DELL'ATTI, V., 2019. Risk management 4.0: the role of big data analytics in the bank sector. *International Journal of Economics and Financial Issues*, 9(6), p.40.
- ELTWERI, A. 2020. Fintech in Africa. Available at [www.alexander.it](http://www.alexander.it)
- ELTWERI, A. 2020. Social and Environmental Responsibility Effect on a Company's Financial Performance. Available at [www.alexander.it](http://www.alexander.it)
- ELTWERI, A. 2020. The cultural aspects of accounting development in the MENA Region. Available at [www.alexander.it](http://www.alexander.it)
- ELTWERI, A. 2020. The forthcoming chapter of accountancy using Blockchain. Available at [www.alexander.it](http://www.alexander.it)
- ELTWERI, A. 2021. Diversity of Audit Committee Members and their Influence on Audit Fees. Available at [www.alexander.it](http://www.alexander.it)
- ELTWERI, A. 2021. The Artificial Intelligence Ethical Implications in Auditing Public Sector. Available at [www.alexander.it](http://www.alexander.it)
- ELTWERI, A. 2021. The Blockchain Impact on the Current Auditing Standards. Available at [www.alexander.it](http://www.alexander.it)
- ELTWERI, A. 2021. The Corporate Governance Effects on the Audit Committees Performance. Available at [www.alexander.it](http://www.alexander.it)
- ELTWERI, A. 2021. The Effects of Digitalization on Auditing Fees. Available at [www.alexander.it](http://www.alexander.it)
- ELTWERI, A. 2021. The Impact of Cyber-Security on Audit Quality. Available at [www.alexander.it](http://www.alexander.it)
- ELTWERI, A. and CAVALIERE, M.L.P.L. 2020a. Impact of E-Accounting Practices upon the Performance of Business. PROCEEDINGS E-BOOK, 240.
- ELTWERI, A. and CAVALIERE, M.L.P.L. 2020b. Lessons in Corporate Governance to Learn From More Developed Countries. PROCEEDINGS E-BOOK, 57.
- ELTWERI, A., ALTARAWNAH, M., AL-HAJAYA, K., & AL-KARAKI, W. 2018. Auditing profession regulation: Lesson learned from code and common law countries regulatory approaches. *Risk Governance and Control: Financial Markets & Institutions*, 8(3), 80-101.
- ELTWERI, A., FACCIA, A. and CAVALIERE, L.P.L., 2020. The role of culture on the adoption of International Standards on Auditing in the developing countries: An institutional perspective. *Journal of Governance and Regulation*, Vol. 9 No. 4, pp162-171
- ELTWERI, A., FACCIA, A., ROXANA MOȘTEANU, N., SAWAN, N. and PIO LEONARDO CAVALIERE, L. 2020. The Role of Risk Management in Auditing E-Business. 2020 The 4th International Conference on Software and e-Business of Conference.
- ELTWERI, A., SAWAN, N. and TAHAR, A.R. 2018. The Harmonising of Auditing Standards in Emerging Economies from The Stakeholders' Perspectives. *Corporate Ownership and Control*, 15, 201-212.
- FACCIA, A. and MOSTEANU, N.R., 2019. Accounting and blockchain technology: from double-entry to triple-entry. *The Business & Management Review*, 10(2), pp.108-116.
- FACCIA, A. and MOSTEANU, N.R., 2019. Accounting and blockchain technology: from double-entry to triple-entry. *The Business & Management Review*, 10(2), pp.108-116.
- FACCIA, A. and MOSTEANU, N.R., 2019. Tax evasion information system and blockchain. *Journal of Information Systems & Operations Management*, 13(1).
- FACCIA, A., 2019, August. Data and Information Flows: Assessing Threats and Opportunities to Ensure Privacy and Investment Returns. In *Proceedings of the 2019 3rd International Conference on Cloud and Big Data Computing* (pp. 54-59).
- FACCIA, A., Al Naqbi, M.Y.K. and Lootah, S.A., 2019. Integrated Cloud Financial Accounting Cycle: How Artificial Intelligence, Blockchain, and XBRL will Change the Accounting, Fiscal and Auditing Practices. In *Proceedings of the 2019 3rd International Conference on Cloud and Big Data Computing* (pp. 31-37).
- FACCIA, A., DE LUCIA, C., ELTWERI, A., SAWAN, N. AND PIO LEONARDO CAVALIERE, L., 2020. Extended Audit Report: Enhancing Trust and Reputation in IT Processes and across E-business Industries. In *2020 2nd International Conference on E-Business and E-commerce Engineering* (pp. 23-27).
- FACCIA, A., MOSTEANU, N.R., FAHED, M. and CAPITANIO, F., 2019. Accounting Information Systems and ERP in the UAE: An Assessment of the Current and Future Challenges to Handle Big Data. In *Proceedings of the 2019 3rd International Conference on Cloud and Big Data Computing* (pp. 90-94).
- KENYON, D. and ELOFF, J.H., 2017. August. Big data science for predicting insurance claims fraud. In *2017 Information Security for South Africa (ISSA)* (pp. 40-47). IEEE.
- KHAN, N., ALSAQER, M., SHAH, H., BADSHA, G., ABBASI, A.A. and SALEHIAN, S., 2018. March. The 10 Vs, issues and challenges of big data. In *Proceedings of the 2018 international conference on big data and education* (pp. 52-56).
- MOSTEANU, N. R. 2019. International Financial Markets face to face with Artificial Intelligence and Digital Era. *Theoretical and Applied Economics*, 26(3), 123-133.
- MOSTEANU, N. R. 2020. Artificial Intelligence and Cyber Security – A Shield against Cyberattack as a Risk Business Management Tool – Case of European Countries. *Quality-Access to Success Journal*, 21(175), 148-156.
- MOSTEANU, N. R. 2020. Finance digitalization and its impact on labour market. *Technium Social Sciences Journal*, Vol.8/ June 2020, 598-605.
- MOSTEANU, N. R. 2020. Green Sustainable Regional Development and Digital Era. In *Proceedings of Green Buildings and Renewable Energy*, Springer, Ch.13, 181-197.
- MOSTEANU, N. R., FACCIA, A. 2020. Digital Systems and New Challenges of Financial Management – FinTech, XBRL, Blockchain and Cryptocurrencies. *Quality-Access to Success Journal*, 21(174), 159-166.
- MOSTEANU, N. R., FACCIA, A., ANSARI, A., SHAMOUT, M. D. 2020. Sustainability Integration in Supply Chain Management through Systematic Literature Review. *Quality-Access to Success Journal*, 21(176), 117-123.
- MOSTEANU, N. R., GALEA, K. 2020. Artificial Intelligence and Cyber Security – face to face with Cyberattack – a Maltese case of Risk Management approach. *Ecoforum Journal*, 9(2)
- PETRATOS, P., and FACCIA, A. 2019. Accounting Information Systems and System of Systems: Assessing Security with Attack Surface Methodology. In *Proceedings of the 2019 3rd International Conference on Cloud and Big Data Computing* (pp. 100-105).
- SAWAN, N., ELTWERI, A., DE LUCIA, C., PIO LEONARDO CAVALIERE, L., FACCIA, A. and ROXANA MOȘTEANU, N. 2020. Mixed and Augmented Reality Applications in the Sport Industry. 2020 2nd International Conference on E-Business and E-commerce Engineering of Conference.