

HOME / ARCHIVES / VOL. 11 NO. 45 (2023) / Research Article

Evaluation of Linkage Between the Corporate Economic Value-Added Analysis and Information Technology Using Big Data

Esakkiammal S.

Research Scholar, Department of Information Technology, Vels Institute of Science Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, India.

K. Kasturi

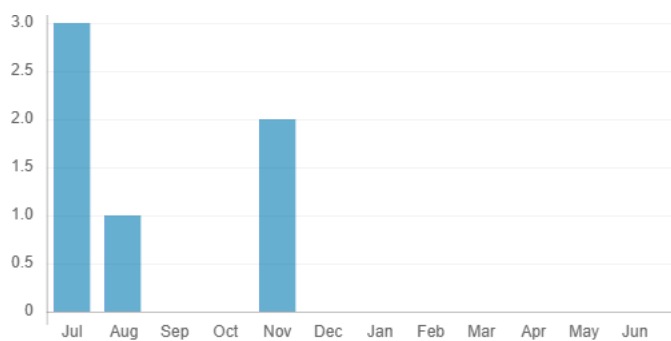
Associate Professor, Department of Information Technology, Vels Institute of Science Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, India.

Keywords: Solvency, Profitability and Liquidity, Economic Value Information Technology

ABSTRACT

Businesses depend on the information technology and big data analytics to provide high-quality information, which can assist them in making better decisions and, ultimately, increase their performance. As a result, in order for businesses to reap the benefits of intelligent data, they are dramatically increasing the amount of money they invest in a wide variety of technologies and integrating them into their operational procedures. A lot of attention has been paid to the concept of agility as a strategic capability in today hypercompetitive corporate contexts. This is because it is predicted that information that is enabled by information technology will play a big role in the development of organizational capacities. In this paper, we develop an evaluation of linkage between the corporate economic value-added analysis (CEVA) and information technology using big data. The study carries out an analysis on corporate risk management by studying the corporate economic value-added analysis using both information technology chosen as model 1 and big data analytics as model 2. Three different corporate firms are used in the study and its economic relative to the model 1 and model 2 are studied. The study also measures the influence of solvency, profitability and liquidity on the Economic Value and Market Value in relation with information technology in corporate industry.

DOWNLOADS



REFERENCES

Visconti Roberto, M. (2020). The valuation of digital intangibles. *Technology, marketing and internet* (pp. 1-560). Palgrave Macmillan.

Hou, R., Kong, Y., Cai, B., & Liu, H. (2020). Unstructured big data analysis algorithm and simulation of Internet of Things based on machine learning. *Neural Computing and Applications*, 32(10), 5399-5407.

Hou, R., Kong, Y., Cai, B., & Liu, H. (2020). Unstructured big data analysis algorithm and simulation of Internet of Things based on machine learning. *Neural Computing and Applications*, 32(10), 5399-5407.

Martinelli, G., Vogel, E., Decian, M., Farinha, M. J. U. S., Bernardo, L. V. M., Borges, J. A. R., ... & Ruviano, C. F. (2020). Assessing the eco-efficiency of different poultry production systems: an approach using life cycle assessment and economic value added. *Sustainable Production and Consumption*, 24, 181-193.

- Akgun, A. I., Samiloglu, F., & Oztop, A. O. (2018). The impact of profitability on market value added: Evidence from Turkish Informatics and Technology Firms. *International Journal of Economics and Financial Issues*, 8(4), 105.
- Chen, M., Liu, Q., Huang, S., & Dang, C. (2022). Environmental cost control system of manufacturing enterprises using artificial intelligence based on value chain of circular economy. *Enterprise Information Systems*, 16(8-9), 1856422.
- Shad, M. K., Lai, F. W., Fatt, C. L., Klemeš, J. J., & Bokhari, A. (2019). Integrating sustainability reporting into enterprise risk management and its relationship with business performance: A conceptual framework. *Journal of Cleaner production*, 208, 415-425.
- Tanjung, P. R. S., & Wahyudi, S. M. (2019). Analysis the Effect Disclosure of Sustainability Report, Economic Value Added and Other Fundamental Factors of Companies on Company Value. *International Journal of Academic Research in Accounting, Finance and Management Sciences*, 9(2), 237-249.
- Hannoon, A., Al-Sartawi, A., Musleh, M. A., & Khalid, A. A. (2021). Relationship between financial technology and financial performance. In *The Big Data-Driven Digital Economy: Artificial and Computational Intelligence* (pp. 337-344). Springer, Cham.
- Awan, U., Shamim, S., Khan, Z., Zia, N. U., Shariq, S. M., & Khan, M. N. (2021). Big data analytics capability and decision-making: The role of data-driven insight on circular economy performance. *Technological Forecasting and Social Change*, 168, 120766.
- Anser, M. K., Ahmad, M., Khan, M. A., Zaman, K., Nassani, A. A., Askar, S. E., ... & Kabbani, A. (2021). The role of information and communication technologies in mitigating carbon emissions: evidence from panel quantile regression. *Environmental Science and Pollution Research*, 28(17), 21065-21084.
- Lahti, T., Wincent, J., & Parida, V. (2018). A definition and theoretical review of the circular economy, value creation, and sustainable business models: where are we now and where should research move in the future?. *Sustainability*, 10(8), 2799.
- Andronie, M., Lăzăroi, G., Iatagan, M., Hurloiu, I., & Dijmărescu, I. (2021). Sustainable cyber-physical production systems in big data-driven smart urban economy: a systematic literature review. *Sustainability*, 13(2), 751.
- He, L., Xue, M., & Gu, B. (2020). Internet-of-things enabled supply chain planning and coordination with big data services: Certain theoretic implications. *Journal of Management Science and Engineering*, 5(1), 1-22.
- Chen, P. T., Lin, C. L., & Wu, W. N. (2020). Big data management in healthcare: Adoption challenges and implications. *International Journal of Information Management*, 53, 102078.
- Sheng, J., Amankwah-Amoah, J., Khan, Z., & Wang, X. (2021). COVID-19 pandemic in the new era of big data analytics: Methodological innovations and future research directions. *British Journal of Management*, 32(4), 1164-1183.
- Saura, J. R., Ribeiro-Soriano, D., & Palacios-Marqués, D. (2021). Setting privacy "by default" in social IoT: Theorizing the challenges and directions in Big Data Research. *Big Data Research*, 25, 100245.
- Lee, M., Lee, S. A., & Koh, Y. (2019). Multisensory experience for enhancing hotel guest experience: Empirical evidence from big data analytics. *International Journal of Contemporary Hospitality Management*.
- Kadim, A., Sunardi, N., & Husain, T. (2020). The modeling firm's value based on financial ratios, intellectual capital and dividend policy. *Accounting*, 6(5), 859-870.
- Faccia, A., Mosteanu, N. R., Fahed, M., & Capitanio, F. (2019, August). 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).
- Wanner, J., & Janiesch, C. (2019). Big data analytics in sustainability reports: an analysis based on the perceived credibility of corporate published information. *Business Research*, 12(1), 143-173.
- Mikalef, P., Krogstie, J., Pappas, I. O., & Pavlou, P. (2020). Exploring the relationship between big data analytics capability and competitive performance: The mediating roles of dynamic and operational capabilities. *Information & Management*, 57(2), 103169.
- Ting, I. W. K., Ren, C., Chen, F. C., & Kweh, Q. L. (2020). Interpreting the dynamic performance effect of intellectual capital through a value-added-based perspective. *Journal of Intellectual Capital*.
- Shokouhyar, S., Seddigh, M. R., & Panahifar, F. (2020). Impact of big data analytics capabilities on supply chain sustainability: A case study of Iran. *World Journal of Science, Technology and Sustainable Development*.
- Dzwigol, H., Dzwigol-Barosz, M., & Kwilinski, A. (2020). Formation of global competitive enterprise environment based on industry 4.0 concept. *International Journal of Entrepreneurship*, 24(1), 1-5



PDF

PUBLISHED

13.02.2023

HOW TO CITE

S., E., & Kasturi, K. . (2023). Evaluation of Linkage Between the Corporate Economic Value-Added Analysis and Information Technology Using Big Data. *International Journal of Intelligent Systems and Applications in Engineering*, 11(4s), 109–117. Retrieved from <https://ijisae.org/index.php/IJISAE/article/view/2577>

More Citation Formats

ISSUE

[Vol. 11 No. 4s \(2023\)](#)

SECTION

Research Article

LICENSE



This work is licensed under a [Creative Commons Attribution-ShareAlike 4.0 International License](#).

All papers should be submitted electronically. All submitted manuscripts must be original work that is not under submission at another journal or under consideration for publication in another form, such as a monograph or chapter of a book. Authors of submitted papers are obligated not to submit their paper for publication elsewhere until an editorial decision is rendered on their submission. Further, authors of accepted papers are prohibited from publishing the results in other publications that appear before the paper is published in the Journal unless they receive approval for doing so from the Editor-In-Chief.

IJISAE open access articles are licensed under a [Creative Commons Attribution-ShareAlike 4.0 International License](#). This license lets the audience to give appropriate credit, provide a link to the license, and indicate if changes were made and if they remix, transform, or build upon the material, they must distribute contributions under the same license as the original.

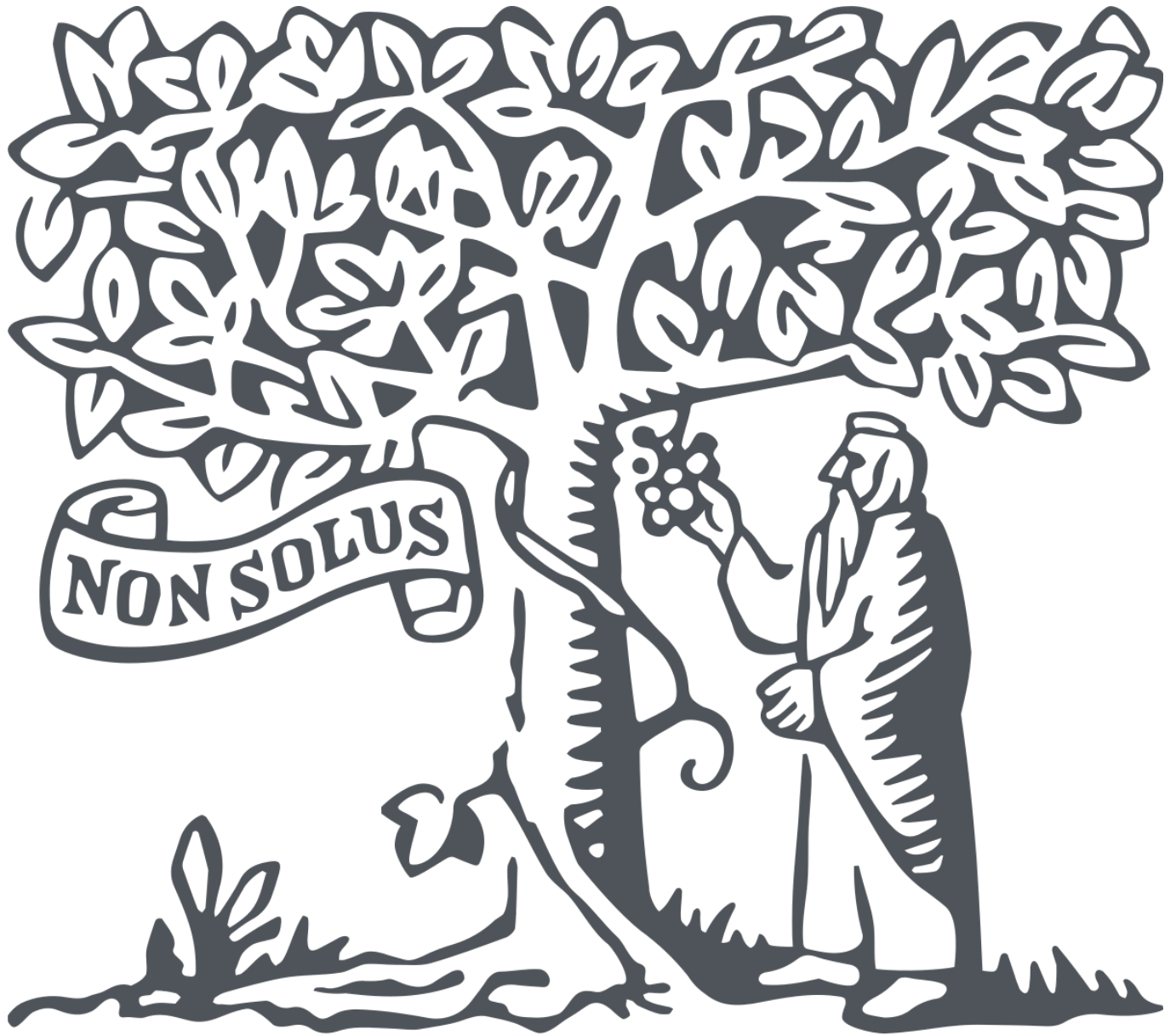
ANNOUNCEMENTS

Information for Authors

March 6, 2023

Information for Authors:

We are pleased to inform that we are now collaborating with **Elsevier Digital Commons** for much better visibility of journal. Further authors will be able to observe their citations, metric like PlumX from journal website itself. **IJISAE** will be in transition from **OJS** to **Digital Commons framework** in next few months so if their is any queries or delays contact directly on editor@ijisae.org



ELSEVIER

LIKE, SUBSCRIBE AND SHARE THIS VIDEO



Why Elsevier and Scopus Are Facing Criticism: Unprofessionalism, Fake Journals, & Global Boycott

Books And Journals Information Support



Watch on

Editorial Team

Focus and Scope

Author Guidelines

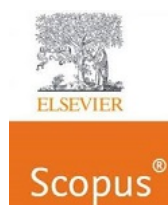
Indexing

Publishing Process
 New Submission
 Publishing Ethics
 Contact
 Peer Review Process

INFORMATION

For Readers
 For Authors
 For Librarians

INDEXED BY



TR
Index



MOST READ

Quick links for: Authors

- [Register](#) as a new author
- [Track](#) the status of your submissions
- [Submit](#) a new manuscript
- [Update](#) the details in your profile
- [Show the guidelines](#) for authors

Quick links for: Peer Reviewers

- [Register](#) as a new Peer Reviewer
- [Overview](#) of a current review
- [Process](#) for undertaking reviews

Quick links for: Editor and Section Editors

- [Overview](#) of new submissions
- [Assign](#) submissions to reviewers
- [Track progress](#) of revisions
- [Select](#) submissions for copy editing

Quick links for: Editor and Publisher

- [Overview](#) of new submissions
- [Assign](#) submissions to Section Editors

[Current Issue](#) | [Archives](#) | [Submit a manuscript](#) | [About the Journal](#)
 ISSN: 2147-6799

Platform &
 workflow by
OJS / PKP

