

Documents

Zulfikri, Z.^{a b}, Sa'ad, A.A.^b, Kassim, S.^b, Othman, A.H.A.^b

Feasibility of Central Bank Digital Currency for Blockchain-Based Zakat in Indonesia
(2023) *Lecture Notes in Networks and Systems*, 488, pp. 387-395.

DOI: 10.1007/978-3-031-08090-6_23

^a Department of Management, Faculty of Economic and Business, Universitas Muhammadiyah Sumatera Utara, Medan, Indonesia

^b IIUM Institute of Islamic Banking and Finance, International Islamic University Malaysia, Kuala Lumpur, Malaysia

Abstract

Distrust to zakat institutions is one of the causes zakat funds not reaching the potential amount in Indonesia. Blockchain technology, with its capability of tracing, can provide transparency information. The Blockchain-based Zakat can potentially overcome distrust issues to zakat institutions. However, the legal status of cryptocurrency is still skeptical. This study aims to see the feasibility of CBDC can be implemented in blockchain-based Zakat in Indonesia. The method used in this research is the qualitative method. An extensive literature review method was utilized to identify and analyze the relevant literature in order to propose the model. This study suggests Blockchain-based Zakat with the use of CBDC and BAZNAS as the zakat agencies. © 2023, The Author(s), under exclusive license to Springer Nature Switzerland AG.

Author Keywords

Blockchain; CBDC; Trust; Zakat

References

- Andayani, D.R.
(2019) *Statistik Zakat Nasional*, 2018.
- Stuart, T.A., Ye, S.Y.
Computer Simulation of IGBT losses in PFC circuit
(1994) *IEEE Workshop on Computers in Power Electronics*, 1994, pp. 85-90.
, pp
- Boar, C., Holden, H., Wadsworth, A.
(2020) *Impending Arrival – a Sequel to the Survey on Central Bank Digital Currency*, SSRN
- Lee, D.K.C., Yan, L., Wang, Y.
A global perspective on central bank digital currency
(2021) *Chinaecon. J.*, 14 (1), pp. 52-66.
- Farooq, M.S., Khan, M., Abid, A.
A framework to make charity collection transparent and auditable using blockchain technology
(2020) *Comput. Electr. Eng.*, 83.
- Kahf, M.
Zakat: Unresolved Issue in the contemporary Fiqh
(1989) *J. Islamic Econ.*, 2 (1).
- Khan, N., Ouaich, R.
Feasibility analysis of blockchain for donation-based crowdfunding of ethical projects
(2019) *Smart Technologies and Innovation for a Sustainable Future: Proceedings of the 1St American University in the Emirates International Research Conference—Dubai, UAE 2017*, pp. 129-139.
Al-Masri, A., Curran, K. (eds.) , Springer, Cham

- Klein, M., Groß, J., Sandner, P.
The digital euro and the role of DLT for central bank digital currencies
(2020) *Frankfurt School Blockchain Center Working Paper*,
- Kosba, A., Miller, A., Shi, E., Wen, Z., Papamanthou, C.
Hawk: The blockchain model of cryptography and privacy-preserving smart contracts. In: **Proceedings of the 2016 IEEE Symposium on Security and Privacy, SP 2016**, pp
(2016) 839–858,
- Koulu, R.
Blockchains and online dispute resolution: Smart contracts as an alternative to enforcement
(2016) *Scripted*, 13 (1), pp. 40-69.
- Lee, J., Seo, A., Kim, Y., Jeong, J.
Blockchain-based one-off address system to guarantee transparency and privacy for a sustainable donation environment
(2018) *Sustainability*, 10 (12), p. 4422.
- Lushi, T.
Charity token-improving trust on charity organizations through blockchain technology
(2019) *2019 International Conference at the Brno University of Technology*, Brno
- Miscione, G., Ziolkowski, R., Zavolokina, L., Schwabe, G.
Tribal governance: the business of blockchain authentication. In: **Proceedings of the Annual Hawaii International Conference on System Sciences, January 2018**, pp
(2018) 4484–4493,
- Nor, R.M., Rahman, M.M.H., Rahman, T., Abdullah, A.
Blockchain Sadaqa mechanism for disaster aid crowd funding
(2017) *Proceedings of the 6Th International Conference on Computing and Informatics: Embracing Eco-Friendly Computing*, 211, pp. 400-405.
- Nur, M., Salikin, M., Yahya, N.
Blockchain-based Zakat collection to overcome the trust issues of Zakat payers
(2021) *Int. J. Percept. Cogn. Comput.*, 7 (1), pp. 53-58.
- Obaidullah, M., Shirazi, N.S.
Islamic Social Finance report 1436H (2015)
(2015) *Islamic Research and Training Institute (IRTI)*,
- Owoyemi, M.Y.
Zakat management: The crisis of confidence in zakat agencies and the legality of giving zakat directly to the poor
(2020) *J. Islamic Acc. Bus. Res.*, 11, pp. 498-510.
- Qardawi, Y.A.
(1999) *Fiqh Al Zakah*,
A Comparative Study of Zakah, Regulations and Philosophy in the Light of Qur'an and Sunnah, vol. I. King Abdulaziz University
- Rejeb, D.
Blockchain and smart contract application for Zakat institution
(2020) *Int. J. Zakat*, 5 (3), pp. 20-29.
- Saleh, H., Avdoshin, S., Dzhonov, A.
Platform for tracking donations of charitable foundations based on blockchain

technology

(2019) *Actual Prob. Syst. Softw. Eng. (APSSSE)*, pp. 182-187.

2019

- Stuart, T.A., Ye, S.Y.
Computer Simulation of IGBT losses in PFC circuit
(1994) *IEEE Workshop on Computers in Power Electronics*, 1994, pp. 85-90.
, pp
- Sillaber, C., Waltl, B.
Life cycle of smart contracts in blockchain ecosystems
(2017) *Datenschutz Und Datensicherheit-Dud*, 41 (8), pp. 497-500.
- Singh, A., Rajak, R., Mistry, H., Raut, P.
Aid, charity and donation tracking system using blockchain. In: Proceedings of the 4th International Conference on Trends in Electronics and Informatics
(2020) *ICOEI 2020*,
- Sulaiman, H., Jamil, N.
Information security governance model to enhance zakat information management in Malaysian zakat institutions. In: Conference Proceedings-6th International Conference on Information Technology and Multimedia at UNITEN: Cultivating Creativity and Enabling Technology Through the Internet of Things, ICIMU 2014, pp
(2015) 200–205,
- Wandhöfer, R.
The future of digital retail payments in Europe: A place for digital cash?
(2017) *J. Payments Strategy Syst.*, 11 (3), pp. 248-258.
- Widjaja, G.
Legality of cryptocurrency in Indonesia
(2019) *Adv. Bus. Res. Int. J.*, 5 (2), p. 76.
- Stuart, T.A., Ye, S.Y.
Computer Simulation of IGBT losses in PFC circuit
(1994) *IEEE Workshop on Computers in Power Electronics*, 1994, pp. 85-90.
, pp

Correspondence Address

Zulfikri Z.; Department of Management, Indonesia; email: zulfikri@umsu.ac.id

Editors: Alareeni B., Hamdan A.

Publisher: Springer Science and Business Media Deutschland GmbH

Conference name: International Conference on Business and Technology, ICBT 2021

Conference date: 6 November 2021 through 7 November 2021

Conference code: 280249

ISSN: 23673370

ISBN: 9783031080890

Language of Original Document: English

Abbreviated Source Title: Lect. Notes Networks Syst.

2-s2.0-85135054797

Document Type: Conference Paper

Publication Stage: Final

Source: Scopus