

# Blockchain Technology And Its Applications For Education

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**Abstract:** *Blockchain core technology used to build Crypto currencies such as bit coin Blockchain technology has been used in many areas such as finance, justice and trade, we will focus on their potential education programs and explore how blockchain technology can be used to solve others. educational problems and introduces the features and benefits of blockchain technology followed by exploring new blockchain applications in the education sector. Promising use of the blockchain in higher education to transform digital record keeping and certification making digital credentials and subject to student control, without the need for a consultant to verify their authentic it.*

**Keywords:** Block chain

## REFERENCES

- [1]. R Beck, JS Czepluch, N Lollike, S Malone, Blockchain – The Gateway to Trust-Free Cryptographic Transactions. In Research Papers from ECIS2016, (Istanbul, 2016)
- [2]. M Chung, J Kim, The internet information and technology research directions based on the fourth industrial revolution. KSII Trans. Internet Inf. Syst. 10(3), 1311–1320 (2016)
- [3]. R Collins, Blockchain: A new architecture for digital content. EContent 39(8), 22–23 (2016)
- [4]. P Devine, Blockchain learning: can crypto-currency methods be appropriated to enhance online learning? Presented at the ALT Online Winter Conference 2015, Online, (United Kingdom, 2015)
- [5]. K Fanning, DP Centers, Blockchain and its coming impact on financial services. J. Corp. Account. Finance...
- [6]. [21:08, 11/23/2021] Aadith Krishnan: M Swan, Blockchain: Blueprint for a New Economy, 1st edn. (O'Reilly Media, Sebastopol, CA, 2015)
- [7]. F Tschorsch, B Scheuermann, Bitcoin and beyond: A technical survey on decentralized digital currencies. IEEE Commun. Surv. Tutorials 18(3), 2084–2123 (2016) <https://doi.org/10.1109/COMST.2016.2535718>
- [8]. S Underwood, Blockchain beyond Bitcoin. Commun. ACM 59(11), 15–17 (2016) <https://doi.org/10.1145/2994581>
- [9]. M Vukolić, in The Quest for Scalable Blockchain Fabric: Proof-of-Work vs. BFT Replication. Open problems in network security (Springer, Cham, 2015), pp. 112–125 [https://doi.org/10.1007/978-3-319-39028-4\\_9](https://doi.org/10.1007/978-3-319-39028-4_9)
- [10]. H Wang, K Chen, D Xu, A maturity model for blockchain adoption. Financ. Innov. 2(1), 12 (2016) <https://doi.org/10.1186/s40854-016-0031-z>
- [11]. J Yli-Huumo, D Ko, S Choi, S Park, K Smolander, Where is current research on Blockchain technology?—A systematic review. PLoS One 11(10), e0163477 (2016) <https://doi.org/10.1371/journal.pone.0163477>
- [12]. Z Zheng, S Xie, H Dai, X Chen, H Wang, in 2017 IEEE International Congress on Big Data (BigData Congress). An Overview of Blockchain Technology: Architecture, Consensus, and Future Trends (2017), pp. 557–564 <https://doi.org/10.1109/BigDataCongress.2017.85>