# Here is the top 10 research paper within different databases 2020-2022.

1. **[A Decentralize Location-Based Reputation Management System in the IoT Using Blockchain](https://ieeexplore.ieee.org/document/9697067/)**
2. [**Techno-Economic Analysis of decentralized preprocessing systems for fast pyrolysis biorefineries with blended feedstocks in the southeastern United States**](https://www.sciencedirect.com/science/article/pii/S1364032121001751)
3. [**A Blockchain-Based Location Privacy-Preserving Scheme in Location-Based Service**](https://www.hindawi.com/journals/misy/2022/1931451/)
4. [**Geospatial Blockchain: review of decentralized geospatial data sharing systems**](https://agile-giss.copernicus.org/articles/3/29/2022/)
5. [**Decentralized geoprivacy: leveraging social trust on the distributed web**](https://www.tandfonline.com/doi/abs/10.1080/13658816.2021.1931236)
6. [**Trusted data infrastructure for smart cities: a blockchain perspective**](https://www.tandfonline.com/doi/abs/10.1080/09613218.2020.1784703)
7. [**Study on City Digital Twin Technologies for Sustainable Smart City Design: A Review and Bibliometric Analysis of Geographic Information System and Building Information modeling integration**](https://www.sciencedirect.com/science/article/pii/S2210670722003298)
8. [**Construction site information decentralized management using blockchain and smart contracts**](https://onlinelibrary.wiley.com/doi/abs/10.1111/mice.12804?casa_token=nUVgpVgmXUcAAAAA:KKICW8otZ5nxHd6IEam-mN3DhIxELlc0sr9-bqARN2iUH7-gPuU-fWYLDC8XQJn8V3Ui1_7wJb2hjXsU)
9. [**A systematic review of digital technology adoption in off-site construction: Current status and future direction towards industry 4.0**](https://www.mdpi.com/889546)
10. [**Digitalization and decentralization driving transactive energy Internet: Key technologies and infrastructures**](https://www.sciencedirect.com/science/article/pii/S0142061520328210?casa_token=RjZ18HY4gEkAAAAA:LsWB8X1YEPNWhCElngvs_ps9mVboN1LYlWcaHhT3UkxUC-sUcrUTvINHD7LsYENBMNcwooQbVvf7)

**Here is Highest impact factor articles summary**

**A Decentralized Location-Based Reputation Management System in the IoT Using Blockchain**

**Search string:**

**( blockchain OR distributed network OR decentraliz\*) AND (gis OR geographic information system OR geospatial )**

**Summary:**

Ponlawat Weerapanpisit and others, describes the internet of things (iot) that play a big role in actual things to the Internet infrastructure. In order to share services, one IOT device may find and connect with another via communication technologies. The main theme of this article is a decentralized location-based reputation management system. Before establishing a new connection, determine whether it is reliable to avoid any potential unexpected actions. This research paper suggests an architecture to control end device reputation values in an IoT system depending on their location.

Managing reputation is used fog layer. Fog layer is implemented in a distributed way using blockchain technology .and used Ethereum smart contract and Ethereum network for execute the program. The reputation management system of IoT devices is based on the cloud–fog–edge architecture. The cloud layer is often in charge of regulating, displaying data, connecting with users, and storing and analyzing data from edge nodes. Then, there are several devices in the fog layer that can be scattered regionally. In the blockchain network, each fog device will function as a node. In order to support geospatial smart contracts for maintaining location-based reputation indices of end devices, they will link to one another and create a blockchain network. A fog device will be connected to several locations as a blockchain node. There are two components in the fog layer, which is one of the layers that makes the architecture work. On the one side, there is the Ethereum-based blockchain network, which contains smart contracts with data on managing devices and reputation. The second element is an API, which serves as a communication channel between the administrators or edge devices and the smart contracts. Go Ethereum (Geth), an open-source version of the Ethereum blockchain network, will be used for the deployment of the Ethereum network.

In this paper describes the experiment designs, and also their analysis. It is divided into three experiments. In the first, it is suggested tree-based data structure and the methods and standards for comparing the two geocoding systems are described. The second experiment explains the simulation of the suggested architecture to test various features, and the third experiment explains the implementation procedures and test case scenario. The results of this search demonstrate that the proposed of architecture was functional either in simulation mode within a single computer and or an IoT system using distributed devices. Fog device can be run slow in blockchain system because of transaction new blockchain created takes time rather than real time system. if IOT data will frequently be changes in real time then blockchain network is not suitable for that.