

9th International Conference "Distributed Computing and Grid Technologies in Science and Education" (GRID'2021)



Contribution ID: 118

Type: not specified

Solving the problems of Byzantine generals using blockchain technology

Friday, 9 July 2021 12:00 (15 minutes)

The process of digitalization of the Russian economy as the basis for the transition to the digital economy is conditioned by the requirements of objective reality and is based, first of all, on the introduction of digital technologies into the activities of its actors. The most promising is the Blockchain technology, which has the capabilities of the most effective coordination of the economic interests of the actors of the digital economy and is applicable in various spheres of economic activity. The article discusses the basics of cryptocurrencies and blockchain operation, as well as the technologies in which this "Tasks of Byzantine generals" (decision-making tasks) occurs. A comparison is made for solution of the problem with different blockchain technologies with several platforms that prevent behavior dangerous for transactions network and thereby increasing the competitiveness of the cryptocurrency.

Summary

Primary authors: BOGDANOV, Alexander (St.Petersburg State University); DEGTYAREV, Alexander (Professor); SHCHEGOLEVA, Nadezhda (Saint Petersburg Electrotechnical University "LETI"); KORKHOV, Vladimir (St. Petersburg State University); ZAYNALOV, Nodir (Samarkand branch Tashkent University of Information Technologies named after Muhammad al-Khwarizmi); KIYAMOV, Jasur (St.Petersburg State University); DIK, Aleksandr (St.Petersburg State University); ANAR, Faradzhov (St.Petersburg State University)

Presenter: KIYAMOV, Jasur (St.Petersburg State University)

Session Classification: Data Management, Organization and Access

Track Classification: 6. Data Management, Organisation and Access