Blockchain Impact on Maritime Survey Published

"A survey on blockchain technology in the maritime industry: Challenges and future perspectives" has been newly published via ScienceDirect's open-access Future Generation Computer Systems journal.

The 20-page document was drafted by ten authors, mainly from the School of Computing and Digital Technology at Birmingham City University (United Kingdom), but also from the University of Doha for Science and Technology (Doha, Qatar), University of Warwick (Coventry, United Kingdom), Lupovis Limited (Glasgow, United Kingdom) and The Scowcroft Center for Strategy and Security at the Atlantic Council (Washington DC, United States).

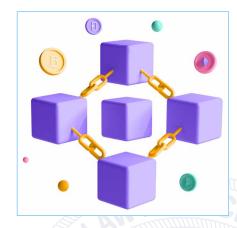
Authors have described the survey as providing the following highlights:

- · identification of the impact of blockchain on supply chain management
- · proposition of integration strategies of blockchain in ports and vessels
- · assessment of the current network infrastructure in the maritime industry
- discussion of blockchain cyber-security challenges in the maritime transportation

"Blockchain technology has emerged as a potential solution to address the imperative need for enhancing security, transparency and efficiency in the maritime industry, where increasing reliance on digital systems and data prevails," stated the survey abstract.

"However, the integration of blockchain in the maritime sector is still an under-explored territory, necessitating a comprehensive investigation into its impact, challenges and implementation strategies to harness its transformative potential effectively. This survey paper investigates the impact of maritime blockchain on supply chain management, shedding light on its ability to enhance transparency, traceability and overall efficiency in the complex realm of maritime logistics.

"Furthermore, the paper offers a practical roadmap for the integration of blockchain technology into the maritime industry, presenting a comprehensive framework that maritime stakeholders can adopt to unlock the advantages of blockchain in their operations.



"In addition to these aspects, the study conducts a thorough examination of the current network infrastructure in ports and vessels. This assessment provides a holistic view of the technological landscape within the maritime sector, which is crucial for understanding the challenges and opportunities for the successful implementation of blockchain technology.

"Moreover, the research identifies and analyses specific blockchain cyber-security challenges that are pertinent to the maritime industry."

June 2024