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Impact of Distributed Systems within the Medical Field

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Abstract

Distributed systems have revolutionized healthcare by facilitating efficient data management, communication, and collaboration among healthcare providers and systems. This abstract explores the integration of distributed systems in the medical field, emphasizing their role in improving patient care, enhancing data security, and enabling real-time decision-making. Key technologies such as cloud computing, Internet of Medical Things (IoMT), and block chain are discussed, highlighting their impact on interoperability, scalability, and reliability in healthcare environments. The challenges and opportunities associated with deploying distributed systems in healthcare are also addressed, including issues related to privacy, data integration, and system interoperability. Overall, this research underscores the transformative potential of distributed systems in revolutionizing healthcare delivery and patient outcomes.

Keywords: Distributed Systems, Medical Field, Internet of Medical Things, IoMT



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