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Strengthening Financial Services through Secure Computing: Challenges, Solutions, and Future Directions

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Abstract: This paper examines the enhancement of financial services through secure computing, focusing on the challenges posed by cybersecurity threats, data privacy issues, and regulatory compliance. It assesses current solutions such as advanced encryption techniques, robust authentication methods, and the strategic implementation of secure cloud technologies, all while ensuring adherence to strict regulatory requirements. Additionally, the paper explores future directions including the adoption of Blockchain technology for secure transaction processing and the potential of quantum computing to advance encryption methodologies. By providing a detailed analysis, this study aims to outline essential strategies for developing a secure and resilient financial ecosystem that can adapt to emerging threats and evolving regulatory landscapes

Keywords: Financial services, Secure computing Cyber security, Data encryption, Blockchain

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