

In this issue

Research Article

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GRIFFIN: Enhancing the security of smart contracts

Published On: November 17, 2023 | Pages: 073 - 081

Author(s): Franciscu SY*, Ruggahakotuwa RK, Samarawickrama SWYS and Lahiru JAD

In the rapidly evolving landscape of decentralized systems, ensuring the integrity and trustworthiness of smart contracts is paramount for developers. This paper presents a comprehensive strategy for enhancing smart contract security by focusing on specific high-risk areas, including Integer Overflow, Dangerous Delegate Calls, Timestamp Dependency, Reentrancy Vulnerab ...

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Promoting data element circulation for urban digital economy development

Published On: September 12, 2023 | Pages: 055 - 060

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Data element circulation, also known as data circulation, refers to the entire process of continuously collecting, processing, storing, transmitting, and using data in economic and social activities. The rapid development of information technology has made the data elements circulation an important driving force for promoting economic growth, improving production effi ...

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Review Article

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Neurological Properties to Circumvent AI's Error Reduction Impasse

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Our paper proposes significant changes to AI technology. We believe this is necessary because current implementations have stagnated at average error rates of approximately 8%. Implementers hope that further improvements will lower error rates to 5% by 2025. This would require 1028 floating-point operations, which is not possible with today's algorithms and computer t ...

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Short Communication

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Entropy processing of diagnostic parameters

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Modern means of energy transportation are subject to the highest conditions in terms of operational reliability. This is achieved not only by the use of advanced technologies but also by constant monitoring of the technical condition. One method is vibration control, which involves processing the desired signal in various ways, one of which is the entropy method. The ...

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Opinion

Two great sciences could converge in the near future

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Like most young people in the 90s, I expected to work with computers, so I applied to the Faculty of Systems Engineering of the National Engineering University in my country. At this time, passing the test was a very difficult task because there were only 20 places available and thousands of applicants. ...

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