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(57) Abstract :

A blockchain-based smart contract validator system (101) is disclosed comprising a static analyzer (103), blockchain simulator (102), compliance module (104), and AI risk classifier (105) for error-free smart contract deployment. The system simulates contract execution, checks code semantics, ensures policy adherence, and offers real-time remediation feedback. The validator significantly reduces logic flaws, execution errors, and regulatory violations before smart contracts are committed to a blockchain, thereby enhancing trust, security, and operational transparency in decentralized applications.

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