

Document Title	Is a review paper	Is Blockchain application	Is IOT Application	Is pure security protocol Issue	Other topic	Symbolic Tools	Is open Access	Is already presented in Review?	Date after 31 dec 2024		
An Integrated Smart Contract Vulnerability Detection Tool Using Multi-Layer Perceptron on Real-Time Solidity Smart Contracts								No	Yes		
Ethereum Blockchain Smart Contract Vulnerability Detection Using Deep Learning								Yes			
EtherGIS: A Vulnerability Detection Framework for Ethereum Smart Contracts Based on Graph Learning Features								Yes			
ContractWard: Automated Vulnerability Detection Models for Ethereum Smart Contracts								Yes			
Improvement and Optimization of Vulnerability Detection Methods for Ethernet Smart Contracts								Yes			
SoliAudit: Smart Contract Vulnerability Assessment Based on Machine Learning and Fuzz Testing								Yes			
Detecting Vulnerabilities in Ethereum Smart Contracts with Deep Learning								Yes			
Multi-Objective Approach for Detecting Vulnerabilities in Ethereum Smart Contracts								Yes			
Smart Contract Bytecode Similarity Detection Based on Self-supervised Learning								Yes			
Modelling And Simulation For Detecting Vulnerabilities And Security Threats Of Smart Contracts Using Machine Learning					third-party authentication method						
SmartMixModel: Machine Learning-based Vulnerability Detection of Solidity Smart Contracts								Yes			
Methodology Interaction by Machine Learning Model to Detect Vulnerability in Smart Contract of Blockchain							No				
MANDO-HGT: Heterogeneous Graph Transformers for Smart Contract Vulnerability Detection								Yes			
Vulnerability Analysis of Smart Contract for Blockchain-Based IoT Applications: A Machine Learning Approach			Yes								
GVD-net: Graph embedding-based Machine Learning Model for Smart Contract Vulnerability Detection								Yes			
Full-Stack Hierarchical Fusion of Static Features for Smart Contracts Vulnerability Detection						Yes					
AutoMESG: Automatic Framework for Mining and Classifying Ethereum Smart Contract Vulnerabilities and Their Fixes						Yes					
Machine Learning Model for Smart Contracts Security Analysis								Yes			
Opcode Sequences-Based Smart Contract Vulnerabilities Detection Using Deep Learning								No			
SCScan: A SVM-Based Scanning System for Vulnerabilities in Blockchain Smart Contracts					Expert system type of application - Algorithms to check manually a give			No			
VulHunter: Hunting Vulnerable Smart Contracts at EVM Bytecode-Level via Multiple Instance Learning								Yes			
Accelerating Smart Contract Vulnerability Scan Using Transformers								No			
Schooling to Exploit Foolish Contracts				Yes							
Automatic Identification of Crash-inducing Smart Contracts				Yes							
Towards Automatic Exploit Generation for Identifying Re-Entrancy Attacks on Cross-Contract				Yes							
TokenCheck: Towards Deep Learning Based Security Vulnerability Detection In ERC-20 Tokens								Yes			
A Deep Learning Model for Threat Hunting in Ethereum Blockchain								No			
Vulnerability Detection in Smart Contracts Using Deep Learning								No			
Exploring Smart Contract Recommendation: Towards Efficient Blockchain Development	Yes										
Efficient Avoidance of Vulnerabilities in Auto-completed Smart Contract Code Using Vulnerability-constrained Decoding					Yes						
Analysis of Blockchain-Based Techniques for the Mitigation of DDoS Attacks in IoT Devices			Yes								
Unknown Threats Detection Methods of Smart Contracts								Yes			
A Graph Neural Network Approach for Detecting Smart Contract Anomalies in Collaborative Economy Platforms Based on Blockchain Technology								No			
Abnormal Transactions Detection in the Ethereum Network Using Semi-Supervised Generative Adversarial Networks								No			
The Blockchain-Powered Edge Computing Platform for Developing Smart Internet of Things (IoT) Applications			Yes								
Real Estate Registry Platform Through NFT Tokenization Using Blockchain					Yes						
DeFiScanner: Spotting DeFi Attacks Exploiting Logic Vulnerabilities on Blockchain				Yes							
16th International Conference on Network and System Security, NSS 2022					Yes						
TP-Detect: trigram-pixel based vulnerability detection for Ethereum smart contracts								Yes			
An integrated deep learning model for Ethereum smart contract vulnerability detection								Yes			
An Efficient Code-Embedding-Based Vulnerability Detection Model for Ethereum Smart Contracts								No			
17th EAI International Conference on Security and Privacy in Communication Networks, SecureComm 2021					Yes						
Proceedings - 2022 4th International Conference on Data Intelligence and Security, ICDIS 2022					Yes						
CDRF: A Detection Method of Smart Contract Vulnerability Based on Random Forest							No				
Digital forensic framework for smart contract vulnerabilities using ensemble models				Yes							
6th International Conference on Information Systems Security and Privacy , ICISSP 2020					Yes						
A Survey on Ethereum Smart Contract Vulnerability Detection Using Machine Learning	Yes										
Eth2Vec: Learning contract-wide code representations for vulnerability detection on Ethereum smart contracts								Yes			
Blockchain Intelligence: Methods, Applications and Challenges	Yes										
Smart Scan: An Approach to Detect Denial of Service Vulnerability in Ethereum Smart Contracts				Yes							
Detection and Analysis of Ethereum Energy Smart Contracts			Yes								
Detecting Unknown Vulnerabilities in Smart Contracts with Binary Classification Model Using Machine Learning							No				
The Vulnerabilities in Smart Contracts: A Survey	Yes										
Analyzing the Attacks on Blockchain Technologies	Yes										
Towards Auto Contract Generation and Ensemble-based Smart Contract Vulnerability Detection								Yes			
Vulnerability Detection of Smart Contracts Based on Bidirectional GRU and Attention Mechanism								No			
SCGformer: Smart contract vulnerability detection based on control flow graph and transformer								No			
Smart Learning to Find Dumb Contracts								Yes			
An Efficient Vulnerability Detection Model for Ethereum Smart Contracts							No				
A General Smart Contract Vulnerability Detection Framework with Self-attention Graph Pooling								Yes			
Detecting unknown vulnerabilities in smart contracts using opcode sequences									Yes		
A Novel Machine Learning-Based Analysis Model for Smart Contract Vulnerability								Yes			
A new scheme of vulnerability analysis in smart contract with machine learning								Yes			
Dynamic vulnerability detection on smart contracts using machine learning								Yes			
SVChecker: A deep learning-based system for smart contract vulnerability detection								No			
MANDO-GURU: vulnerability detection for smart contract source code by heterogeneous graph embeddings								Yes			
Smart Contract Vulnerability Detection Based on Clustering Opcode Instructions								No			
A Machine Learning-Based Dynamic Method for Detecting Vulnerabilities in Smart Contracts								No			
Smart contract vulnerability detection combined with multi-objective detection								Yes			

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DeepInfer: Deep Type Inference from Smart Contract Bytecode					automatically recover function signatures and returns from the bytecode of Solidity and Vyper smart contracts				
Typical Contract Graph Feature Enhanced Smart Contract Vulnerability Detection							No		
Machine learning approaches for enhancing smart contracts security: A systematic literature review	Yes								
Prediction of ethereum blockchain ERC-20 token standard smart contract vulnerabilities using source code Metrics: An ensemble learning approach						Yes			
Deep Learning-Based Program-Wide Binary Code Similarity for Smart Contracts					Yes				
Disruptive Technologies in Information Sciences VI	Yes								
OC-Detector: Detecting Smart Contract Vulnerabilities Based on Clustering Opcode Instructions							No		
14th International Conference on Network and System Security, NSS 2020					Yes				
15th International Symposium on Foundations and Practice of Security, FPS 2022					Yes				
18th China Cyber Security Annual Conference, CNCERT 2021					Yes				
Attention-based Machine Learning Model for Smart Contract Vulnerability Detection								Yes	
13th International Conference on Network and System Security, NSS 2019					Yes				
Vulnerability and Transaction Behavior Based Detection of Malicious Smart Contracts					Yes				