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(57) Abstract :

The present invention discloses a system (100) and method (300) for adaptive cybersecurity framework for predictive vulnerability assessment and propagation analysis is a comprehensive and intelligent system (100) designed to revolutionize cybersecurity strategies and bolster the defense against evolving cyber threats. The system (100) combines cutting-edge technologies, including artificial intelligence, machine learning, threat intelligence, and real-time data analysis, to proactively detect, assess, and contain potential vulnerabilities within complex network environments. Furthermore, by identifying and addressing potential vulnerabilities before they are exploited by malicious entities, the system (100) provides an effective shield for digital infrastructures. The framework's adaptability and ongoing learning mechanisms position it at the forefront of cybersecurity defense, offering heightened protection against the constantly evolving landscape of cyber threats.

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