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(54) Title of the invention : A SYSTEM AND A METHOD FOR AUTOMATED IMAGE VULNERABILITY REPAIR IN A NETWORKED COMPUTING ENVIRONMENT

<p>(51) International classification :G06F0021570000, G06N0003080000, G06F0021560000, G06F0021620000, G06Q0040080000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Chitkara University</b> Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p><b>2)Bluest Mettle Solutions Private Limited</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)MISHRA, Rahul</b> Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----</p> <p><b>2)SINGH, Dhiraj</b> Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----</p> <p><b>3)MANTRI, Archana</b> Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p>
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(57) Abstract :

A system (100) and a method (200) for automated image vulnerability repair in a networked computing environment is provided. The system (100) includes components for image acquisition, preprocessing, vulnerability detection, vulnerability classification, and vulnerability repair. The system (100) utilizes computer vision techniques, machine learning algorithms, and deep learning approaches to analyze images and accurately detect and classify vulnerabilities based on severity and type. Appropriate repair mechanisms such as content filtering, data redaction, malware removal, and watermarking techniques are automatically applied based on the classification of vulnerabilities. The system (100) also generates detailed reports and logs, integrates with external threat intelligence feeds, and allows for real-time updates. The system (100) enhances security, efficiency, and accuracy in addressing image vulnerabilities, ensuring the integrity of networked computing environments.

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