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(57) Abstract :
 Embodiments of the present disclosure relates to a system (102) and method (200) for detecting unauthorized data access in a network by applying cybersecurity images. The system (102) comprises a processor (104) coupled to a memory (106). The memory (106) stores processor-executable instructions. The processor (104) is configured to capture network activity data from a plurality of sources in real-time. Next, the processor (104) is configured to process the captured network activity data to obtain into cyber security images. Thereafter, the processor (104) is configured to analyse the cyber security images. In the end, the processor (104) is configured to identify patterns associated with authorized and unauthorized data access in the analysed cyber security images.

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