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## (57) Abstract :

ABSTRACT SYSTEM FOR SAFEGUARDING WIRELESS SENSOR NETWORKS FROM CODE INJECTION ATTACKS The present disclosure discloses a system (102) for safeguarding wireless sensor networks from code injection attacks, comprising a cluster head (104) in a wireless sensor network, responsible for collecting data from network nodes and forwarding it to base stations; and a machine learning (106) module for implementing federated learning and deep learning techniques on the cluster head to verify the authenticity of code before dissemination to other network nodes, thereby preventing code injection attacks. FIG. 1

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