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(57) Abstract :

The present invention discloses a system (100) to implement home security measures over a wireless sensor network. The system (100) encompasses a server (106), a processor (102), and memory (104) housing a set of instructions to be operated. By establishing secure communication channels with one or more wireless sensing devices (110), the processor (102) executes instructions to receive a set of security event data and environmental data from the one or more wireless sensing devices (110). The received set of data is compared with a predefined set of rules and regulations associated with security threats stored in a database (224). Further, the processor (102) determines the presence or absence of a security threat in the received set of security event data and environmental data based on the comparison. Upon determination of the presence of a security threat, the system (100), generates and transmits an appropriate response, thereby, securing communication channels.

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