

PATENTS

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(54) Title of the invention : NODE INTEGRITY BASED AUTHENTICATION MODEL FOR DYNAMIC WIRELESS COMMUNICATION NETWORKS

(51) International classification	:H04L 29/06; H04L 9/00	(71)Name of Applicant : 1)B. MADHURAVANI Address of Applicant :MLR Institute of Technology, Laxman Reddy Avenue, Dundigal Village, Quthbullapur Mandal, Hyderabad, Telangana-500043, India. Telangana India
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(57) Abstract :

7. ABSTRACT Exemplary embodiments of the present disclosure are directed towards a node integrity based authentication model for dynamic wireless communication networks comprising of: a high dimensional raw data to be encrypted and the encryption of the raw data is with a structured information; and unstructured information provided with a variable size key and cypher text which is constant; a high dimensional unstructured data to be encrypted and the encrypted data is distributed to databases without a centralized authority; and a shared key to be exchanged by quantum key distribution process, and the communication channels are from a quantum channel; and a normal data channel.

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(54) Title of the invention : MULTIFARIOUS SMART SENSING SYSTEM AUGMENTED WITH INTERNET OF THINGS THEME FOR FOOD QUALITY CHECK

(51) International classification	:G06K17/00, G06Q30/00	(71)Name of Applicant :
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(57) Abstract :

Design and development of an integrated smart sensor system augmented with Internet of Things (IoT) to be used primarily by the home users to check whether food can be consumed or not based on the food quality test. The system is portable, flexible and multifarious rapid testing device for detecting antibiotic residues and toxins in various food ingredients. The device can provide rapid preliminary information about the spoilage condition in the food. A single instrumented device can help food industries to improve their product safety check towards achieving high quality food to meet the international demand. The solution is for integrating the miniature sensing system to IoT. Wellness condition of an individual can be monitored based on the food consumption and its affect.

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(57) Abstract :

ABSTRACT Exemplary embodiments of the present disclosure are directed towards a method involving authentication model for wireless communication comprising of receiving an input and dividing the input message into blocks, which are padded for the message to be encrypted; dividing the padded messages into sub-blocks to create a parallel multi-chaotic system with maps and the sub-blocks undergo transformation in the transformation box by the application of an algorithm; and performing a permutation operation by connecting a secret key both to the permutation operation and the parallel multi-chaotic system with maps leading to permutation values, and a permutation function is performed subsequently to obtain a hash value.

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