

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201611028872 A

(19) INDIA

(22) Date of filing of Application :24/08/2016

(43) Publication Date : 02/03/2018

(54) Title of the invention : ENERGY EFFICIENT AND INTELLIGENT CLUSTER TYPE HETEROGENEOUS SYSTEM FOR GRID BASED WIRELESS SENSOR NETWORKS

(51) International classification	:G06F 17/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT// /
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)CHITKARA UNIVERSITY

Address of Applicant :Chitkara University, Chandigarh-Patiala
National Highway (NH-64), Tehsil-Rajpura, District-Patiala,
Punjab-140401. Email-director@chitkara.edu.in Landline No-
01762-507084 Punjab India

(72)Name of Inventor :

1)SINGH RAJVIR

2)CHALLA RAMA KRISHNA

(57) Abstract :

ENERGY EFFICIENT AND INTELLIGENT CLUSTER TYPE HETEROGENEOUS SYSTEM FOR GRID BASED WIRELESS NETWORK Inventors have designed a grid based network layout that can be effectively used for proliferation of wireless sensor networks in organized spaces like homes, buildings and cities. Owing to the variety of sensors that can be deployed in these smart spaces, heterogeneity is achieved. To achieve power efficiency and scalability, a new intelligent and heterogeneity aware clustering arrangement is then overlaid on the grid-based network. The whole process of network deployment and commissioning is phased into developing a well labeled grid layout plan, deploying a gateway device and/ or sink device for the grid, deploying native location tags, deploying sensor nodes in the grid layout, Star/ Mesh Network formation and finally Intelligent Cluster formation within a grid location.



No. of Pages : 24 No. of Claims : 7