

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111050944 A

(19) INDIA

(22) Date of filing of Application :07/11/2021

(43) Publication Date : 19/11/2021

(54) Title of the invention : ADAPTIVE BANDWIDTH CONTROL TO IMPROVE ENERGY FAIRNESS IN 5G WIRELESS SENSOR NETWORK

<p>(51) International classification :H04W0084180000, H04L0012825000, H04W0028080000, H04W0004700000, H04W0028100000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Pranjit Das Address of Applicant :Assistant Professor , Department of Computer Science and Engineering, SRMIST DELHI-NCR Campus, Modinagar, Delhi-Meerut Road, Ghaziabad, U.P-201204 -----</p> <p>2)Mr. Sivakumar S 3)Dr Prabhakara Rao Kapula 4)Dr. V. Hindumathi 5)Sumit Kumar 6)Ankit Temurnikar Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Pranjit Das Address of Applicant :Assistant Professor , Department of Computer Science and Engineering, SRMIST DELHI-NCR Campus, Modinagar, Delhi-Meerut Road, Ghaziabad, U.P-201204 -----</p> <p>2)Mr. Sivakumar S Address of Applicant :Assistant Professor, Department of EEE, St. Joseph's College of Engineering, OMR, Chennai, India -----</p> <p>3)Dr Prabhakara Rao Kapula Address of Applicant :Professor, Department of ECE, B V Raju Institute of Technology, Narsapur. Telangana -----</p> <p>4)Dr. V. Hindumathi Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, Hyderabad -----</p> <p>5)Sumit Kumar Address of Applicant :IIM Kozhikode, Kamal Niwas, Punaichak, Mohanpur, Patna-800023, India -----</p> <p>6)Ankit Temurnikar Address of Applicant :Assistant Professor , CSE, IES University , Bhopal -----</p>
---	--

(57) Abstract :

The present invention relates to an adaptive bandwidth control to improve energy fairness in 5g wireless sensor network. Wireless sensor network (WSN) is a group of number of sensors called as node. Nodes are spatially distributed to monitor environmental conditions. Multi-hop communication is predictable in significant WSN, because of limited transmission range and energy saving purpose. Traffic load in multi-hop wireless sensor network is not distributed uniformly over the nodes. Sensor nodes closer to the sink carries large number of packets. To avoid the congestion and reduce the probability of packet loss we have maintain the energy fairness by varying bandwidth.

No. of Pages : 7 No. of Claims : 1