



International Journal for Research Trends and Innovation

IJRTI | IJRTI.ORG | ISSN: 2456-3315

An International Open Access, Peer-reviewed, Refereed Journal

Certificate of Publication

The Board of
International Journal for Research Trends and Innovation

Is hereby awarding this certificate to

Chitrlekha Nagle

In recognition of the publication of the paper entitled

**Expectation Maximization Clustering Using Gaussian Mixture Model for Energy
Efficient Routing Protocols in Wireless Sensor Networks: A Survey**

Published in Volume 7 Issue 1, January-2022

Co-Authors - Dr. Uday Panwar

Paper ID - IJRTI2201014



Editor-In Chief

INTERNATIONAL JOURNAL FOR RESEARCH TRENDS AND INNOVATION | IJRTI

An International Scholarly, Open Access, Multi-disciplinary, Indexed Journal

Website: www.ijrti.org | Email: editor@ijrti.org | ESTD: 2016

Manage By: IJPUBLICATION Website: www.ijrti.org | Email ID: editor@ijrti.org



International Journal for Research Trends and Innovation

IJRTI | IJRTI.ORG | ISSN: 2456-3315

An International Open Access, Peer-reviewed, Refereed Journal

Certificate of Publication

The Board of
International Journal for Research Trends and Innovation

Is hereby awarding this certificate to

Dr. Uday Panwar

In recognition of the publication of the paper entitled

**Expectation Maximization Clustering Using Gaussian Mixture Model for Energy
Efficient Routing Protocols in Wireless Sensor Networks: A Survey**

Published in Volume 7 Issue 1, January-2022

Co-Authors - Chitralkha Nagle

Paper ID - IJRTI2201014



Editor-In Chief

INTERNATIONAL JOURNAL FOR RESEARCH TRENDS AND INNOVATION | IJRTI

An International Scholarly, Open Access, Multi-disciplinary, Indexed Journal

Website: www.ijrti.org | Email: editor@ijrti.org | ESTD: 2016

Manage By: IJPUBLICATION Website: www.ijrti.org | Email ID: editor@ijrti.org