

## Faculty Profile

Name : Dr. Amita Yadav  
Designation : Associate Professor  
Qualifications : Ph.D., M.Tech  
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Area of Interest/Specialization: Wireless Sensor Network, Computer Net-  
-Work, Network Security, Data Mining  
Experience : 21 years



### Key Publications

1. Amita Yadav, Suresh Kumar “An Enhanced distributed energy efficient clustering protocol for wireless sensor networks” Vol.9, no.11, pp.-49-58, IJFGCN(SERSC), ISSN:2233-7857.
2. Amita Yadav, Suresh Kumar “A Teaching learning based optimization Algorithm for cluster head selection in wireless sensor networks” Vol. 10, no. 1, pp- 111-122, IJFGCN(SERSC) ISSN:2233-7857.
3. Amita Yadav, Suresh Kumar “Energy efficient cluster formation in wireless sensor networks using Particle Swarm optimization” Vol.-10(30), pp.-1-6, IJST, ISSN (Print): 0974-6846.
4. Amita Yadav, Suresh Kumar, Singh Vijendra “Network Lifetime Analysis of WSNs using Particle Swarm Optimization” Vol.-132, pp-805-815, Procedia Computer Science, ELSEVIER, ISSN:1877-0509

### Papers presented in Conferences

1. A. Garg , N. Batra , I. Taneja , A. Bhatnagar , A. Yadav , S. Kumar “Cluster Formation based comparison of Genetic Algorithm & Particle Swarm Optimization Algorithm in Wireless Sensor Network” Vol.5, Issue.2, pp- 14-20, IJSRCSE, E-ISSN: 2320-7639.
2. Amita Yadav, Suresh Kumar “Analysis & simulation of Low energy adaptive clustering hierarchy protocol” Advances in Intelligent Systems and Computing-638(Next generation networks) Online ISBN 978-981-10-6005-2, pp.- 361-367, Springer conference
3. A. Yadav, N. Batra, H. Gupta, N. Yadav & A. Gupta “Implementation of augmented reality in cricket for ball tracking and automated decision making for no ball” Advances in Computing,

Communications and Informatics (ICACCI, 2014) IEEE International Conference on  
DOI: [10.1109/ICACCI.2014.6968378](https://doi.org/10.1109/ICACCI.2014.6968378) pp. 316-321

4. A. Yadav, J. Singh, S. Bhatnagar, K. Goyal and S. Yadav "The Probability Strata: Algorithmic approach to DRDOS in INDIACOM " IEEE conference, 3rd int. conf.on \*Computing for Sustainable Global Development ID-37465, 978-9-3805-4421-2,pp 1865-1870.
5. N. K. Khan, E. Alnatsheh, R. A. Rasheed, A. Yadav and Z. Alansari, "A Quantitative Case Study in WSNs: Design and Implementation of Student Smart ID Card," 2020 International Conference on Computing, Electronics & Communications Engineering (iCCECE), Southend, United Kingdom, 2020, pp. 27-32, doi: 10.1109/iCCECE49321.2020.9231173. **Electronic ISBN:978-1-7281-6330-7**

#### Awards and Recognitions

- 1.
- 2.

#### Patent/Copyright

- 1.
- 2.

#### Sponsored Project/Consultancy

- 1.
- 2.

#### **Book Chapter/Books published**

1. Published a Book Title" Energy Efficient Routing in Wireless Sensor Network" ISBN: 978-93-89116-20-5 Author- Dr. Amita Yadav, Research India Publication, June 2019.
2. Published a Book Title" Energy Efficient Clustering to enhance lifetime in WSN" ISBN: 978-93-89116-19-9 Author- Dr. Amita Yadav, Research India Publication, June 2019
3. Yadav, Amita. "Green Computing in Wireless Sensor Networks through Energy-Efficient Techniques for Lifetime Improvement." *Green Automation for Sustainable Environment*. CRC Press, 2020. 1-18.

#### Ph.D Supervised

#### **Memberships of Professional bodies**

SMC member of ISTE

Other Contributions