Faculty Profile Format

1. Basic Information

- **Name:** Dr. Nandini S Patil

- **Designation:** Associate Professor

- **Department:** Computer Science Engineering

- **Email:** nandinipatil5@gmail.com

2. Academic Qualifications

- **Ph.D. (if applicable):**- VTU, Belagavi, 2023

- **Postgraduate (PG) – M.Tech :** VTU, Belagavi, 2010

- **Undergraduate (UG) – B.E :** VTU, Belagavi, 2008

3. Work Experience

- **Total Academic Experience: 11**

- **Industry Experience:** NA

4. Research Interests

- Computer Networking
- Network Security
- Internet of things

5. Publications, Patents & Research Contributions

1. **Citation Metrics:**

   o h-index: 4

   o i10-index: 2

   o Total Citations: 83

2. **Papers Published:**

   o **Conference Publications:**

     1. National: 1

Nandini V Patil, "SALR Based adaptive and secure load balancing routing for service oriented wireless sensor network", National Research conference on Engineering , Business Management, Sciences, Humanities & Social science with IETE subcenter, Kalaburagi, 2022.

2. International: 06

1. Nandini S. Patil, Dr. Asma Parveen, "Integrated Compressive sensing based Clustering approach to improve network lifetime in WSN," 2021 IEEE International Conference on Mobile Networks and Wireless Communications (ICMNWC), Tumakur, India DOI: 10.1109/ICMNWC52512.2021.9688472.

2. Nandini V Patil,"Real-Time Stress Level Monitoring using IOT", IEEE International Conference on Integrated Intelligence and Communication Systems (ICIICS) (ICIICS-2023)

3. Nandini S. Patil, Dr. Asma Parveen, "Data Processing in a wireless sensor network using a data analytical technique (DAT)," 2019 International Conference on Smart Systems and Inventive Technology (ICSSIT), Tirunelveli, India, 2019, pp. 527-530. DOI: 10.1109/ICSSIT46314.2019.8987827.

4. Nandini S. Patil, "Data Aggregation in Wireless Sensor Networks", International Conference on Computational Intelligence and Computing Research,ISSN:2053-1583,Vol.2 Issue-7,2010.

5. Nandini S. Patil, "Effect of data aggregation on wireless sensor network performance," *Trendz in Information* Sciences &Computing(TISC2010), Chennai, 2010, pp. 214-217

6. Nandini S. Patil, "Irrigation Control System Using Android and GSM for Efficient Use of Water and Power", international Journal of Advanced Research in Computer Science and Software Engineering, Volume: Volume 4, Issue 7, July 2014, pp. 607-611.

o **Journal Publications:**

1. Scopus/Web of Science Indexed: 03

1. Nandini S. Patil, Dr. Asma Parveen, "A. ACS LEACH protocol using optimized clustering and improved orthogonal matching pursuit in WSN". International journal of information technology. 14, 175–184 (2022). https://doi.org/10.1007/s41870-021-00791-y.

(published in SCOPUS indexed Springer Journal)

2. Nandini S. Patil, Dr. Asma Parveen, "Integrated CS-Clustering mechanism for network lifetime improvisation in WSN environment", Multimedia Tools and Applications (2022). https://doi.org/10.1007/s11042-022-14261-5.

(published in SCOPUS with SCIE indexed Springer Journal)

3. Nandini S. Patil, Dr. Asma Parveen, "Consensus-based Secure and efficient compressive sensing in a wireless sensor network environment", The Indonesian Journal of Electrical Engineering and Computer Science (IJEECS) (2023). http://doi.org/10.11591/ijeecs.v30.i1.pp200-207

(published in SCOPUS indexed Journal).

1. UGC Care Listed: NA

2. Other: 08

1. Yasmeen Sultana , Prof Nandini V Patil, "Dry Handwashing Machine By Fog Disinfection To Save Water", International Journal Of Creative Research Thoughts - Ijcrt (Ijcrt.Org), Volume 10, Issue 8, 2022, Pp.E464-469. DOI: https://ijcrt.org/papers/IJCRT2208548.pdf

2. Syeda Shahana Amreen, Nandini V Patil "Cloud-Based Anti-Theft Vehicle Number Plate Detection", International Journal Of Creative Research Thoughts - Ijcrt (Ijcrt.Org), Volume 10, Issue 8, 2022, Pp.E102-109. DOI: https://ijcrt.org/papers/IJCRT2207540.pdf

3. "Simulation Framework for Traffic Control, Secured Communication & Privacy Protection with Intrusion Detection for VANETs ",The International Journal Of Science &Techno ledge (ISSN 2321 – 919X),pp.103-110. DOI: https://www.internationaljournalcorner.com/index.php/theijst/article/view/123837

4. "Protected and Stable Routing Protocol for Heterogeneous Multi Hop Wireless Network", ", IJSRD - International Journal for Scientific Research & Development, Vol. 5, Issue 06, 2017, ISSN (online): 2321-0613, pp.1630-1632. DOI: https://ijsrd.com/Article.php?manuscript=IJSRDV5I60515

5. "Implementing High-Quality-Grained Multiple Data Users &MultiKeyword Search Assisting Sub Terminologies Over Cloud Records", IJSRD - International Journal for Scientific Research & Development, Vol. 5, Issue 06, 2017, ISSN (online): 2321-0613, pp.1063-1065. https://ijsrd.com/Article.php?manuscript=IJSRDV5I60515

6. "Protected and Shared Data Discovery and Dissemination in Wireless Sensor Network", IJSRD - International Journal for Scientific Research & Development, Vol. 5, Issue 06, 2017, ISSN (online): 2321-0613, pp.971-973. DOI: https://ijsrd.com/Article.php?manuscript=IJSRDV5I60425

7. "Predicting Academic Course Preference using Inspired MapReduce", International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056 & p-ISSN: 2395-0072, Volume: 06 Issue: 09,2019,PP. 1077-1081.DOI: https://www.irjet.net/archives/V6/i9/IRJET-V6I9161.pdf

8. "Phishing Website Detection based on Machine Learning",International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056 & p-ISSN: 2395-0072, Volume: 06 Issue: 09,2019,PP. 1113 -1117. DOI:https://www.irjet.net/archives/V6/i9/IRJET-V6I9167.pdf

9. **Books/Book Chapters Published:** 01

Book Title: Introduction to Cryptography and Network Security

10. **Patents (if any):** 01

Patent :Adaptive Compressive Sensing on LEACH using Optimized Clustering and Improved Orthogonal Matching Pursuit in WSN(202211057209)

11. **Grants Received: 01**

Patent :WIRELESS SMART METER SYSTEM

12. **Ph.D. Guidance:** 02

6. Teaching & Courses *(Mention subjects taught)*

- Bigdata Analytics
- Analysis and design of algorithm
- Operating System
- Programming for problem solving
- Embedded Computing system
- Computer networks
- Discrete mathematical structures
- Universal human values
- Internet of things
- Cloud computing
- Cyber security and cyber laws
- Network Security

7. Awards & Recognitions *(If applicable)*

- Invited Talk on Bigdata analytics in Shetty Engineering college, Kalaburagi.

- "Jnana Sanjeevini" award by Jnana New Paper

- Certified in NPTEL/SWAYAM courses

- IEEE Session Chair at IEEE International Conference on Integreated intelligence and communication systems

- Jury member for Project Exhibition at *Walchand Institute of Technology , Solapur.*

- BOS Member of Sharnbasva University.

8. Professional Memberships & Collaborations *(If applicable)*

- **Member:** IETE(LM), IEEE, ISTE(LM)

- **Collaborator: NA**

9. Additional Information *(If applicable – Links to profiles, IDs, etc.)*

- **Google Scholar:** https://scholar.google.com/citations?user=2Y8D8yQAAAAJ&hl=en

- **ORCID ID:** 0000-0002-8606-5774

- **Research Gate:** https://www.researchgate.net/profile/Nandini-Patil?ev=hdr_xprf

- **LinkedIn:** https://www.linkedin.com/in/dr-nandini-s-patil-0b68b931/