

Faculty Profile Format

1. Basic Information

- **Name:** Dr. Jyoti Neginal
- **Designation:** Associate Professor
- **Department:** Computer Science Engineering
- **Email:** jyoti.c.neginal@gmail.com

2. Academic Qualifications

- **Ph.D. (if applicable):-** VTU, Belagavi, 2024
- **Postgraduate (PG) – M.Tech :** VTU, Belagavi, 2013
- **Undergraduate (UG) – B.E :** VTU, Belagavi, 2006

3. Work Experience

- **Total Academic Experience:** 12 Years
- **Industry Experience:** NA

4. Research Interests

- Image Processing
- Artificial Intelligence
- Machine learning

5. Publications, Patents & Research Contributions

1. Citation Metrics:

- h-index: 1
- i10-index:0
- Total Citations: 3

2. Papers Published:

- **Conference Publications:**

1. National: 0
2. International: 01

1.“An adaptive stenographic technique, ascertaining upper bounds of embedding”, Second International Conference on Smart Systems and Inventive Technology (ICSSIT 2019) DVD Part Number: CFP19P17-DVD; ISBN: 978-1-7281-2118-5, 2/19/\$31.00 ©2019 IEEE.

<https://doi.org/10.1109/icssit46314.2019.8987969>

○ **Journal Publications:**

1. Scopus/Web of Science Indexed: 03

1. "Colour image steganography through channel transformation approach", IAES International Journal of Artificial Intelligence (IJ-AI) Vol. 12, No. 3, September 2023, pp. 1062~1069 ISSN: 2252-8938, DOI: <http://doi.org/10.11591/ijai.v12.i3.pp1062-1069>
2. "Colour Image Steganography Based On Channel Transformation Approach To Enhance Visual Quality", Advanced Engineering Science, ISSN: 2096-3246 Volume 54, Issue 02, December, 2022 DOI: <https://advancedengineeringscience.com/article/639.html>
3. "Adaptive Steganography technique using DIDC Model", International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-8, June 2020.

DOI: <https://www.ijitee.org/wp-content/uploads/papers/v9i8/H6138069820.pdf>

2. UGC Care Listed: 05

1. "Intrusion Detection System Using Machine Learning", GIS SCIENCE JOURNAL, ISSN NO : 1869-9391, VOLUME 11, ISSUE 8, 2024.
DOI:20.18001.GSJ.2024.V11I8.24.41185719
2. "Detecting human stress using machine learning algorithms based on sleeping patterns", Journal of Systems Engineering and Electronics (ISSN NO: 1671-1793) Volume 34,ISSUE 8 2024.
3. "Offline Recognition of Handwritten Mathematical Expressions Using CNN and Exception", Foundry Journal,ISSN:1001-4977, Volume 26, Issue 9,September 2023.
4. "An Intelligent Based System For Voice To Text Conversion And Summarization Using Machine Learning", Journal for Basic Sciences,Volume 23,Issue 8, 2023, ISSN: 1006-8341.
DOI:10.37896/JBSV23.8/2493
5. "Covid-19 future forecasting using supervised machine learning ",Science, Technology and Development, ISSN : 0950-0707, Volume XI Issue VIII AUGUST 2022.
<https://ijsrem.com/download/covid-19-future-forecasting-using-supervised-machine-learning/>

3. Other: 08

1. "Automating the Process from E-Commerce to M-Commerce", International Research Journal of Engineering and Technology (IRJET),e-ISSN: 2395-0056, Volume: 06 Issue: 08 | Aug 2019.

<https://www.irjet.net/archives/V6/i8/IRJET-V6I8194.pdf>

2. "Energy Efficient Link-Delay Aware Routing Wireless Sensor Networks", International Journal of Advanced Research in Computer Engineering & Technology (IJARCET) Volume8, Issue6, ISSN: 2278–1323, June2019.

https://www.academia.edu/42907396/Energy_Efficient_Link_Delay_Aware_Routing_in_Wireless_Sensor_Networks

3. "A Fuzzy Logic Based Techniques for content based image Retrieval and Digital Data Transmission", International Journal of Engineering Research in Computer Science and Engineering (IJERCSE) Volume 4, Issue 9, September 2017.

<https://ijercse.com/viewabstract.php?id=11044&volume=Volume4&issue=Issue9>

4. "Multiple Perceptions for Indian Road Sign Recognition and Classification", IJIRST –International Journal for Innovative Research in Science & Technology| Volume 3 | Issue 01 | June 2016. ISSN (online): 2349-6010.

5. "A Transport Vehicular System Co-Ordinated with Movement Framework –VANET", IJIRST – International Journal for Innovative Research in Science & Technology| Volume 3 | Issue 01 | June 2016.

6. "A Robust Face Annotation Method by Mining Facial Images", International Journal of Advanced Research in Computer Engineering & Technology (IJARCET) Volume 4 Issue 5, May 2015.

7. "A New Secure Image Transmission Technique via Secret-Fragment-Visible Mosaic Image", International Journal of Advanced Research in Computer Engineering & Technology (IJARCET) Volume 4 Issue 5, May 2015.

8. "Network Coding based Privacy Preservation Technique for Multi-Hop Wireless Networks", ISSN: 2278 – 1323 International Journal of Advanced Research in Computer Engineering & Technology Volume 1, Issue 4, and June 2012.

1. Books/Book Chapters Published: 01

Book Chapter: Recent Advance in Computer Science, 2022

2. Patents (if any): 03

1. Title of the invention : A Reversible Data Embedding Approach for Secure Data Transmission with Minimized Distortions. Application No. 202341019329 A, INDIA, Date of filing of Application : 21/03/2023, Publication Date : 31/03/2023.

2. Title of the invention : A Robust Approach for Content Based Image Retrieval Using Efficient Feature Extraction and Classification Approach, Application No. 202341019444 INDIA, Date of filing of Application : 21/03/2023, Publication Date : 31/03/2023.

3. Title of the invention : Packet Loss and Error Recovery Optimization for Scalable Video Coding Approach to Provide QoS Support for Mobile Adhoc Network, Application No. 202341019477 A, INDIA Date of filing of Application : 21/03/2023 Publication Date : 31/03/2023.

3. Grants Received: 00

4. Ph.D. Guidance: 00

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

- Python Programming
- Programming for Problem Solving
- Operating System
- Java Programming

- Machine Learning
- Artificial Intelligence
- Discrete mathematical structures
- Deep Learning
- Internet of things
- Data Structures with C

7. Awards & Recognitions (*If applicable*)

- Certified in NPTEL/SWAYAM courses

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

- **Member:** IETE(LM), ISTE(LM), IAENG
- **Collaborator:** NA

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

- **Google Scholar:**
<https://scholar.google.com/citations?user=l8fXLo8AAAAJ&hl=en&authuser=1>