




## K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Road, Bangalore-560109.

<b>Faculty Name</b>	Dr. Rekha B Venkatapur	
<b>Designation</b>	Professor & Head	
<b>Educational Qualification</b>	Ph.D (CSE)	
<b>Experience in Years</b>	29	
<b>Areas of Interest</b>	Data Mining, Data Science, Computer Networks, Image Processing	
<b>E-mail</b>	rekhabvenkatapur@ksit.edu.in	

Educational Details		
Examination/ Degree	College / University	Year of Passing
Ph.D (CSE)	JNTU Hyderabad, Telangana	2016
M. Tech (CSE)	BMS College of Engineering, VTU	2004
BE(CSE)	BEC, Bagalkot, KUD	1988

### Publications

**Journal Publications:**

1. Land Registration System Using Blockchain Technology, High Technology Letters, 2023, Volume 29, Issue 9, PP:327-334
2. A comparative study on different Video Compression Standards: characteristics, working mechanism, performance analysis and applications, High Technology Letters, 2023, Volume 29, Issue 7, PP:358-368, Science press  
<https://www.scopus.com/sourceid/12667>
3. Automatic Tracking of Objects Using Improvised Yolov3 Algorithm and Alarm Human Activities in case of Anomalies, published in the International Journal of Information Technology, ISSN (2511-2112), SPRINGER, 2022 with DOI: 10.1007/s41870-022-01062-0
4. Intelligent Surveillance System to detect Moving Drones Equipped with Weapon Payloads, published in the Journal of Optoelectronics Laser, SCOPUS, ISSN: 1005-0086, vol:41, issue:09, pp:578-583, 2022 with DOI: 10050086.2022.09.64
5. Deep Learning Technique for object detection from Panoramic Video Frames, published in International Journal of Computer Theory and Engineering (IJCTE), SCOPUS, UGC Care, ISSN: 1793-8201, vol:14, issue:01, pp:20-26, 2021 with DOI: 10.7763/IJCTE.2022.V14.1306
6. A Literature Survey on various Lossless and Lossy Data Compression Techniques.

Journal of Chengdu University of Technology, Vol 26, Issue 9, ISSN-1671-9727, Sept 2021, <http://cdjournal.com/> <https://app.box.com/s/altcaw1f5r6dczsp9lxxngdzpzz8423>  
[https://mjl.clarivate.com/search-results?issn=16719727&hide\\_exact\\_match\\_fl=true&utm\\_source=mjl&utm\\_medium=share-by-link&utm\\_campaign=search-results-share-this-journal](https://mjl.clarivate.com/search-results?issn=16719727&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal)

7. COVID-19 Effect on Supply and Demand of Essential Commodities using Unsupervised Learning Method **Springer** - Journal of the Institutions of Engineers, Series B ISSN:2250-2106, June 2021 Springer - <https://doi.org/10.1007/s40031-021-00594-6>
8. Decentralized File Sharing System Using- IPFS , Journal of Emerging Technology and Innovative Research (JETIR), May- 2019, Volume 6, Issue 5, ISSN-2349- 5162, I.F 5.87
9. A Survey on Motion Detection by Image Stitching techniques Asian Journal of Convergence in Technology (AJCT), April- 2019, Volume V, Issue I, ISSN NO:2350-1146, I.F-5.11
10. Paper Title Review on Human Action Detection in Stored Videos using Support Vector Machine International Research Journal of Engineering and Technology (IRJET), Feb- 2019, Volume 6, Issue 2, e-ISSN:2395-0056, p-ISSN:2395-0072, Impact Factor-7.21
11. Electronic Voting Machine Based on Blockchain Technology and Aadhar Verification, International Journal of Innovations in Engineering and Science (IJIES), 2018, Volume 3, Issue 3, e-ISSN- 2456-3463
12. Raithara Bandu – A Digitalized Approach International Journal on Future Revolution in Computer Science & Communication Engineering (IJFRCSC) ISSN: 2454- 4248, PP52-454
13. THERABOT an Artificial Intelligence Therapist at Your Fingertips IOSR Journal of Computer Engineering (IOSR-JCE), May-June 2018, Volume 20, Issue 3, e-ISSN- 2278-0661, p-ISSN:2278-8727

### **Conference Papers**

1. International Conference, Journal of Huazhong University of Science and Technology, ISSN-1671-4512, vol 50, Issue 4 An Adaptive YOLO Object Detection Model for Autonomous Driving System
2. 8th International Mardin Artuklu Scientific Researches Conference June 04-06, 2022 / Mardin, Turkey, organized by Institute of Economic Development & Social Researches, [www.artuklukongresi.org](http://www.artuklukongresi.org) Published paper OBJECT DETECTION ON PANORAMIC IMAGES USING YOLOv5
3. International Conference on Intelligent Systems & Computation (ICISC – 2022), 6th – 7th May 2022, at Poornima Institute of Engineering & Technology, Jaipur, Quality Assessment System for Air Pollution Control in India through calibration and Machine Learning Algorithm
4. International Conference on “Global Convergence in Technology, Entrepreneurship, Computing and Value Engineering: Principles and Practices” (IGCP – 2021) organized by Sapthagiri College of Engineering, Held on 16th and 17th of July 2021. Paper Title” A Survey on Application of Deep Learning : Unsupervised Autoencoder “
5. International conference on AAICM -2020 of organized by DSCE on 9th Dec 2020. Paper Title “Multi Scale Recurrent Yolo(MSRYOLO) Object Detection Surveillance System “
6. 4th National Conference on “Emerging Trends in Information Technology – NCETIT –

<p>2021” Organized by department of Information Science and Engineering, DBIT – Bengaluru held on 19-07-2021 and 20-07-2021 Paper Title “Voice Based E-Prescription”</p> <p>7. Innovative Research Advances in Engineering Applications and Processes, National Conference Proceedings, ISBN : 978 93 85682 65 0 at Jyothy Institute Of Technology, Bengaluru, August 2020. Paper Title “Human Activity Recognition in Videos Using SVM “</p> <p>8. International Research Journal of Engineering and Technology (IRJET), Volume 6, Issue 12, ISSN: 2395-0072, PP- 1-3, Dec 2019 Paper Title “Stock Market Prediction Using Financial News Articles “</p> <p>9. Alochana Chakra Journal, Volume IX, Issue VII, ISSN NO:2231-3990, July 2020. Paper Title “A Survey On Application Of Deep Learning: Unsupervised Auto Encoder”</p> <p>10. International Conference on Innovative Research in Engineering Management and Sciences, International Journal of Scientific Research in Computer Science, engineering and Information Technology, Volume 4, Issue 9 ISSN:2456-3307, Dec 2019 Paper Title “Enhancement of Signature Schemes for Heightening Security in Block chain”</p>
<p><b>Roles and Responsibilities at VTU</b></p>
<ol style="list-style-type: none"> <li>1. <b>BoE in CSE/ISE for the year 2022-2023</b></li> <li>2. <b>BoS in CSE/ISE board 2019-2022</b></li> <li>3. <b>BoE in CSE/ISE Board for the 2017-18</b></li> <li>4. <b>BoE in CSE/ISE Board for the year 2016-17</b></li> </ol>
<p><b>Research Activities</b></p>
<p><b>Guiding 6 Candidates in VTU; 3 Internal candidates and 3 External candidates Degree awarded to One candidate; One scholar completed open seminar – I, Three completed Comprehensive Viva, 1 candidate completed course work</b></p>
<p><b>Awards Received</b></p>
<p><b>Received “Distinguished Women in Engineering” award in the Year 2017 from VIWA.</b></p> <ol style="list-style-type: none"> <li>1. Reviewer/ Session Chair in 5<sup>th</sup> International Conference (Springer) on Cognitive Computing and Information Processing (CCIP 2023), JSS Science and Technology University, Mysore</li> <li>2. Reviewer/ Session Chair in 4<sup>th</sup> IEEE on Cognitive Computing and Image processing (CCIP-2022) 23-12-2022 to 24-12-2022 in JSSATE, Bengaluru</li> <li>3. Session Chair in National Conference in DSATM on 28-6-2022 in DSATM Session Chair for International Conference on Frontiers in Engineering, Management and Science (ICFEMS – 2022)</li> <li>4. 8<sup>th</sup> INTERNATIONAL MARDIN ARTUKLU SCIENTIFIC RESEARCHES CONFERENCE June 04-06, 2022 / Mardin, Turkey, organized by Institute of Economic Development &amp; Social Researches, <a href="http://www.artuklukongresi.org">www.artuklukongresi.org</a></li> <li>5. Session Chair / Reviewer in the "6<sup>th</sup> National Conference on Advancements In Information Technology"(NCAIT-2020), organized by the Department of Information Science &amp; Engineering, JSSATE, Bengaluru.</li> <li>6. International Conference Paper Reviewer at International Conference on</li> </ol>

multidisciplinary Technologies and challenges in industry – 4.0 (ICMTCI-4.0) in East Point College of Engineering in 2020.

7. Reviewer for 5<sup>th</sup> IEEE International conference IACC 2015 organized by BMSCE, Bengaluru

### Professional Membership

1. Life member ISTE no: LM15102
2. Fellow IEI No: F-121672-0
3. CSI Membership: F8000118

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Google Scholar link: <https://scholar.google.com/citations?user=hrGYUjsAAAAJ&hl=en>

Research Gate Link :

<https://www.researchgate.net/profile/Rekha-Venkatapur-2>

### Funds received:

KSCST – SPP Rs 5000/- each

1. Year 2017- 2018 Raithara Bandu – A Digitalized Approach
2. Year 2016-2017 Video Stitching and Object tracking

VTU - Student Project Rs. 5000/-

1. Year 2017-2018 Reshmeya Siri

### Contact Details

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