




# K. S. INSTITUTE OF TECHNOLOGY

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

<b>Faculty Name</b>	Dr. Surekha Borra, Ph.D., SMIEEE	
<b>Designation</b>	Professor & HoD Dept. of Computer Science and Engineering (IoT & Cyber Security including Blockchain Technology)	
<b>Educational Qualification</b>	Ph.D.	
<b>Experience in Years</b>	18	
<b>Areas of Interest</b>	Image and Video Analytics, Data Security, Machine Learning, Biometrics, Remote Sensing and IoT	
<b>E-mail</b>	<a href="mailto:surekhaborra@ksit.edu.in">surekhaborra@ksit.edu.in</a>	

## Educational Details

Examination/ Degree	College / University	Year of Passing
Ph.D.	JNTU, Hyderabad	2015
M. Tech	Gudlavalleru Engineering College/JNTU, Hyderabad	2007
B. Tech	V.R. Siddhartha Engineering College /Nagarjuna University	2003

## Research Summary

- Google Scholar Citations  
<https://scholar.google.co.in/citations?user=WAC8OywAAAAJ&hl=en>
- Scopus Profile  
<http://www.scopus.com/inward/authorDetails.url?authorID=56426918600&partnerID=MN8TOARS>
- ORCID  
<https://orcid.org/0000-0002-1842-806X>
- Authored Books  
[https://www.amazon.in/Books-Surekha-Borra/s?rh=n%3A976389031%2Cp\\_27%3ASurekha+Borra](https://www.amazon.in/Books-Surekha-Borra/s?rh=n%3A976389031%2Cp_27%3ASurekha+Borra)
- Funded Projects: 7
- Google Scholar Citations: 1350, h-index: 23, i-10 index: 39
- Books/ Edited Books: 9, Special Issues Guest Editorial: 3
- Book Chapters in Edited Books: 25
- Journal Publications: 35
- Conference Publications: 24
- PhD Guidance: 5
- NPTEL Certifications: 5

## Awards/ Achievements

- **"Woman Achiever's Award"** from **Institution of Engineers IE (I)**, Karnataka State Centre on 8th March 2017.
- **Award of Rs 5 Lakhs** as **"Seed Money to Young Scientists for Research (SMYSR)"** [FY:2016-17] from **Government of Karnataka, Vision Group on Science and Technology**, Department of Information Technology, Biotechnology and Science and Technology
- **Award of Rs 3 Lakhs** as **"Research Grant for Scientists/Faculty (RGS/F)"** [FY:2019-20], from **Government of Karnataka, Vision Group on Science and Technology**, Department of Information Technology, Biotechnology and Science and Technology.
- **"Young Woman Achiever" award** (2016) by Venus International Foundation, Chennai, India on 5<sup>th</sup> March 2016, for contribution in Copyright Protection of Images.
- **"Best Young Women Scientist" award** (2016) by Pearl Foundation, Madurai, India on 10th December 2016, for outstanding achievements in Electronics and Communication Engineering.
- **"Distinguished Educator & Scholar Award"** by National Foundation for Entrepreneurship Development (NFED) on 8th March 2018, Coimbatore, India.
- **Topper** with a score of 92% in 4 weeks **NPTEL MOOC** on "Digital Image Processing of Remote Sensing Data" conducted by IIT Roorkee, India, 24th Sept. 2017
- **Topper** with a score of 97% in 8 weeks **NPTEL MOOC** on "Estimation for wireless communication, MIMO, OFDM, Cellular and sensor Networks", conducted by IIT Bombay, India, 20th March 2016.
- **Topper** with a score of 86% in 4 weeks **NPTEL MOOC** on "Introduction to remote sensing" conducted by IIT Roorkee, India, 23rd April 2017.

## Professional Memberships

- Senior Member of IEEE
- Life Member of IE (I)
- Life Member of CSI
- Life Member of ISTE
- Life Member of IETE
- Life Member of NFED

## International Recognitions

### **REVIEWER (JOURNALS)**

- IEEE Access, IEEE Transactions on Network Science and Engineering
- IET Image Processing
- ACM Transactions on Internet Technology
- Imaging Science Journal-Taylor & Francis
- Computer Standards & Interfaces (CSI)- Elsevier
- Information Sciences (INS)- Elsevier
- Journal of Systems and Software (JSS)- Elsevier
- Journal of Information Security and Applications (JISA)- Elsevier

- Biomedical Signal Processing and Control – Elsevier
- Computers in Biology and Medicine– Elsevier
- Computer Methods and Programs in Biomedicine– Elsevier
- Digital Signal Processing– Elsevier
- Applied Soft Computing Journal -Elsevier
- Engineering Applications of Artificial Intelligence-Elsevier
- Expert Systems- Wiley
- International Journal of Synthetic Emotions (IJSE) - IGI Global
- International Journal of Rough Sets and Data Analysis (IJRSDA) - IGI Global

## Journal Publications

1. Tribikram Dhar, Nilanjan Dey, Surekha Borra, R. Simon Sherratt, **“Challenges of Deep Learning in Medical Image Analysis—Improving Explainability and Trust”**, IEEE Transactions on Technology and Society, vol. 4, no. 1, pp. 68-75, March 2023.
2. Renuka Veerappa Tali, Surekha Borra, Vijay Bhaskar Reddy Dinnepu, **“CLAHE Enhanced Hybrid Feature Descriptors for Classification of Acute Lymphoblastic Leukemia in Blood Smear Images”**, International Journal of Biomedical Engineering and Technology, 2023.
3. Lakshmi, H.R., Surekha Borra, **“Improved Adaptive Reversible Watermarking in Integer Wavelet Transform using Moth-Flame Optimization”**, Multimedia Tools and Applications, 2023.
4. Lakshmi, H.R., Surekha Borra, **“Reversible Image Watermarking using Modified Quadratic Difference Expansion and Hybrid Optimization Technique”**, International Journal of Interactive Multimedia and Artificial Intelligence, 2023.
5. Ritu Patil, Vishal Goutham, G. R. Sunil Kumar, Surekha Borra, **“AlexNet Based Pirate Detection System”**, Springer Nature Computer Science, Vol.3, No.2, Article No. 108, pp.1-8, 2022.
6. Rohith Thanki, Ashish Kothari, Surekha Borra, **“Hybrid, Blind and Robust Image Watermarking: RDWT – NSCT based Secure Approach for Telemedicine Applications”**, Multimedia Tools and Applications. Vol.80, pp. 27593–27613, 2021.
7. Lakshmi, H.R., Surekha Borra, **“Difference expansion based reversible watermarking algorithms for copyright protection of images: state-of-the-art and challenges”**, International Journal of Speech Technology, 2021.
8. Rohit Thanki, Ashish Kotari, Surekha Borra, **“Fragile Watermarking Framework for Tamper Detection of Color Biometric Images”**, International Journal of Digital Crime and Forensics, Vol.13, No. 2, April-June 2021, pp. 100518-115538, 2021.
9. Rohit Thanki, Surekha Borra, **“A Survey on Prevention Techniques for Camcorder Video Piracy in Movie Theatres”**, Recent Patents on Engineering, Vol. 15, No.2, pp. 207-217, 2021. [DOI: 10.2174/1872212115666201208000236
10. Renuka V Tali, Surekha Borra, Mufti Mahmud, **“Detection and Classification of Leukocytes in Blood Smear Images: State-of-the-Art and Challenges”**, International Journal of Ambient Computing and Intelligence, Vol. 12, No. 2, pp. 030720-041648, 2021.
11. Surekha Borra, Nilanjan Dey, **“Misinformation about COVID-19 and confidential**

- information leakage: Impacts on the psychological well-being of Indians”, Current Psychiatry Research and Reviews, Vol.16, No.4, 2020, pp.283-287.
12. Ambika Annavarapu, Surekha Borra and Rohit Thanki, “**Progression in Biometric Recognition Systems and its Security**”, Recent Patents on Engineering, Vol. 16, No.1, 2022.
  13. Ambika Annavarapu, Surekha Borra, “**Development of magnetic resonance image denoising methodologies: A comprehensive overview of the state-of-the-art**”, Smart Health, Vol. 18, Nov. 2020.
  14. Lakshmi H R, Surekha Borra, “**Digital Video Watermarking Tools an Overview**”, International Journal of Information and Computer Security, Vol.16. No.1,2, pp1-19, August 2021.
  15. Thanusha S V, Suhail Yousuf Bhat, Nallani Priya, Jagadish S, Surekha Borra, “**Ambulatory Peritoneal Dialysis(CAPD) Assistive Device**”, Journal of Emerging Technologies and Innovative Research, Vol.6, No. 5, pp. May 2019.
  16. Deven Trivedi, Rohit Thanki and Surekha Borra, “**Edge Detection and Contour based Ear Recognition Scheme**”, Journal of Information Technology Research, Vol.12, No.3, Oct. 2019, pp. 74-92.
  17. Surekha Borra, Rohit Thanki, “**Crypto – Watermarking Scheme for Tamper Detection of Medical Images**”, Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization, Vol8, No.4, 2019, pp.345-355.
  18. Rohit Thanki, Surekha Borra, “**Fragile Watermarking for Copyright Authentication and Tamper Detection of Medical Images using Compressive Sensing (CS) based Encryption and Contourlet Domain Processing**”, Multimedia Tools and Applications, Vol.78, No.10, pp. 13905-13924, 2019.
  19. Surekha Borra, Rohit Thanki, “**A FRT - SVD Based Blind Medical Watermarking Technique for Telemedicine Applications**”, International Journal of Digital Crime and Forensics, Volume 11, No. 2, pp. 13-33, April-June 2019
  20. Surekha Borra, Rohit Thanki, Nilanjan Dey, Komal Borisagar, “**Secure Transmission and Integrity Verification of Color Radiological Images using Fast Discrete Curvelet Transform and Compressive Sensing**”, Smart Health, Vol. 12, pp. 35-48, April 2019.
  21. Sneha.P.K, Rabichith, Sri Nithya S, Surekha Borra, “**Crowd Density Estimation Using Image Processing: A Survey**”, International Journal of Applied Engineering Research, Vol. 13, No. 9, pp. 6855-6864, 2018.
  22. Rohit Thanki, Surekha Borra, “**A Color image steganography in hybrid FRT–DWT domain**”, Journal of Information Security and Applications, Vol. 40, pp. 92–102, 2018.
  23. Rohit Thanki, Vedavyas Dwivedi, Komal Borisagar, Surekha Borra, “**A Watermarking Algorithm for Multiple Watermarks Protection Using RDWT-SVD and Compressive Sensing**”, Informatica: An International Journal of Computing and Informatics, Vol. 41, No.4, Dec 2017, pp. 479–493.
  24. Surekha Borra, Lakshmi H.R., Nilanjan Dey, Amira S. Ashour, Fuqian Shi, “**Digital Image Watermarking Tools: State-of-the-Art**”, Frontiers in Artificial Intelligence and Applications, Vol.296, pp.450-459, 2017.
  25. Rohit Thanki, Surekha Borra, Vedavyas Dwivedi, Komal Borisagar, “**A RONI based Visible Watermarking Approach for Medical Image Authentication**”, Journal of Medical Systems, Springer, Vol41:143,2017.

26. Rohit Thanki, Surekha Borra, Vedavyas Dwivedi, Komal Borisagar, "**A Steganographic Approach for Secure Communication of Medical Images based on DCT-SVD and Compressed Sensing (CS) Theory**", Imaging Science Journal, Taylor & Francis, Vol. 65, Issue 8, pp.457-467, 2017.
27. Rohit Thanki, Surekha Borra, Vedvyas Dwivedi, Komal Borisagar, "**An Efficient Medical Image Watermarking Scheme based on FDCuT – DCT**", Engineering Science and Technology, an International Journal, Elsevier, Vol. 20, No.4, pp. 1366-1379, 2017.
28. Sivaranjani Reddi, Surekha Borra, "**Identity-based Signcryption Groupkey Agreement Protocol Using Bilinear Pairing**", Informatica: An International Journal of Computing and Informatics, Vol. 41, Issue 1, pp. 31–37, 2017.
29. B.Surekha,G.N.Swamy, "**Sensitive Digital Image Watermarking for Copyright Protection**", International Journal of Network Security, Vol. 15, No. 2, pp. 95-103, March 2013.
30. B.Surekha, G.N.Swamy, "**Visual Secret Sharing Based Digital Image Watermarking**", International Journal of Computer Science Issues, Vol. 9, No. 3, No 2, pp.312-317, May 2012.
31. B.Surekha, G.N.Swamy, "**A Spatial Domain Public Image Watermarking**", International Journal of Security and Its Applications, Vol. 5, No. 1, pp.1-11, January, 2011.
32. B.Surekha,G.N.Swamy, K.Srinivasa Rao, "**A Multiple Watermarking Technique for Images based on Visual Cryptography**", International Journal of Computer Applications, Vol. 1, No 11, pp 78-82, 2010.
33. B.Surekha,G.N.Swamy, K.Srinivasa Rao, A.Ravi Kumar, "**A Watermarking Technique based on Visual Cryptography**", International Journal of Information Assurance and Security, Vol. 4, No. 6, pp. 470-473, 2009.
34. Siri.T.Bhat, B. Surekha, Shreesha Raghavan, "**Sparsh Glove: A Gesture-Based Hardware Control for a Multipurpose Wheelchair**", International Journal of Computer Sciences and Engineering, Vol.4, No.3, pp. 87-90, 2016.
35. B.Surekha, Ratish Rao N, "**Automatic Tablet Pack Quality Monitoring System for Small Scale Pharmaceutical Firms**", International Journal of Engineering Research & Science, Vol. 2, No. 3, pp. 73-79, March 2016.

## Authored Books

1. Surekha Borra, Rohit Thanki, Nilanjan Dey, "**Satellite Image Analysis: Clustering and Classification**", Series: Springer Briefs in Applied Sciences and Technology, Springer, 2019.  
<https://www.springer.com/gp/book/9789811364235#otherversion=9789811364242>  
<https://www.scimagojr.com/journalsearch.php?q=21100321695&tip=sid&clean=0>
2. Surekha Borra, Rohit Thanki, Nilanjan Dey, "**Digital Image Watermarking: Theoretical and Computational Advances**", Series: Intelligent Signal Processing and Data Analysis, CRC Press, Taylor & Francis Group, 2018.  
<https://www.routledge.com/Digital-Image-Watermarking-Theoretical-and-Computational-Advances/Borra-Thanki-Dey/p/book/9781138390638>
3. Rohit Thanki, Surekha Borra, "**Medical Imaging and its Security in Telemedicine Applications**", Springer Briefs in Applied Sciences and Technology, Springer, 2019.  
<https://www.springer.com/us/book/9783319933108>

<https://www.scimagojr.com/journalsearch.php?q=21100321695&tip=sid&clean=0>

4. Rohit Thanki, Komal Borisagar, Surekha Borra, "**Advanced Compression and Watermarking Techniques for Speech Signals**", Springer Briefs in Speech Technology, Springer, 2018.  
<https://www.springer.com/in/book/9783319690681>

## Edited Books

1. Surekha Borra, Nilanjan Dey, Siddhartha Bhattacharyya, Mohamed Salim Bouhlel, "**Intelligent Decision Support Systems: Applications in Signal Processing** (Frontiers in Computational Intelligence), De Gruyter, Oct 2019.  
<https://www.degruyter.com/view/title/541638>
2. Aboul Ella Hassanien, Nilanjan Dey, Surekha Borra, "**Medical Big Data and Internet of Medical Things: Advances, Challenges, and Applications**", CRC Press, Taylor & Francis, 2018.  
<https://www.routledge.com/Medical-Big-Data-and-Internet-of-Medical-Things-Advances-Challenges-and/Hassanien-Dey-Borra/p/book/9781138492479>
3. Nilanjan Dey, Amira Ashour, Simon James Fong, Surekha Borra, "**U-Healthcare Monitoring Systems, Design and Applications**", Elsevier, 2018.  
<https://www.elsevier.com/books/u-healthcare-monitoring-systems/dey/978-0-12-815370-3>
4. Nilanjan Dey, Surekha Borra, Amira S. Ashour, Fuqian Shi, "**Machine Learning in Bio-signal Analysis and Diagnostic Imaging**", Elsevier, Netherlands, 2018.  
<https://www.elsevier.com/books/machine-learning-in-bio-signal-analysis-and-diagnostic-imaging/dey/978-0-12-816086-2>
5. Nilanjan Dey, Amira S. Ashour, Surekha Borra, "**Classification in BioApps- Automation of Decision Making**", Springer, Lecture Notes in Computational Vision and Biomechanics (LNCVB) Series, Vol.26, 2017.  
<https://www.springer.com/in/book/9783319659800>  
<https://www.scopus.com/sourceid/21100380994>

## Book Chapters

1. Pruthvi Dinesh, Sanjana B , Sirisha M , Sunil Kumar G R and Surekha Borra, "**In-Theatre Real Time Piracy Detection and Discouraging System**", Design Studies and Intelligence Engineering , Proceedings of DSIE 2022, Frontiers in Artificial Intelligence and Applications Series, Vol. 365, pp.220-229, 2023.
2. Renuka V Tali, Surekha Borra, Mufti Mahmud, "**Detection and Classification of Leukocytes in Blood Smear Images: State of the Art and Challenges**", Research Anthology on Improving Medical Imaging Techniques for Analysis and Intervention, Chapter 57, pp. 1099-1130, 2023.
3. Sanjana, B., Sirisha, M., Dinesh, P., Kumar, G.R.S., Borra, S., "**Real-Time Piracy Detection Based on Thermogram Analysis and Machine Learning Techniques**", Computational Intelligence in Communications and Business Analytics, Communications in Computer and Information Science book series, Vol.1579, pp. 336-350, 2022.

4. Borra Surekha., Dey N., Sherratt R.S. "**Biometric Sensors**", Encyclopedia of Cryptography, Security and Privacy, Springer, Berlin, Heidelberg, 2021.
5. Surekha Borra, "**COVID-19 Apps: Privacy and Security Concerns**", Intelligent Systems and Methods to Combat Covid-19, Springer Briefs in Applied Sciences and Technology, Springer, Singapore., Chapter 2, pp. 11-17, 2020.
6. Pratiksha P, Pooja K, Onkar Misra, Surekha Borra, "**Automation of Anomaly Detection in Warehouses: A Machine Learning-Based Approach**", Lect. Notes in Networks, Syst., Vol. 169, Proceeding of First Doctoral Symposium on Natural Computing Research, Chapter 16, 2021.
7. Renuka V Tali, Surekha Borra, "**Acute-Lymphoblastic Leukemia Detection through Deep Transfer Learning Approach of Neural Network**", Lect. Notes in Networks, Syst., Vol. 169, Proceeding of First Doctoral Symposium on Natural Computing Research, Chapter 17, 2021.
8. Junaid Khan, Akshatha Shenoy, K. M. Bhavana, Megha S. Savalgi, Surekha Borra, "**Secure Anti-piracy System**", Intelligent System Design, Advances in Intelligent Systems and Computing, Vol 1171. Springer, Singapore., pp. 827-835, 2021.
9. Rohit Thanki, Surekha Borra, and Deven Trivedi. "**Security of Biometric and Biomedical Images Using Sparse Domain Based Watermarking Technique**", Handbook of Multimedia Information Security: Techniques and Applications, Chapter 9, pp. 209-232, 2019.
10. Rohit Thanki, Surekha Borra, "**Application of Machine Learning Algorithms for Classification and Security of Diagnostic Images**", Machine Learning in Bio-Signal Analysis and Diagnostic Imaging, Chapter 11, Academic Press, Elsevier Ltd., pp.273-292, 2018
11. Kranti Budigi, Surekha Borra, "**Real-time Facial Recognition using Deep Learning and Local Binary Patterns**", Proceedings of International Ethical Hacking Conference 2018, Springer series on Advances in Intelligent Systems and Computing, Vol.811, pp.331-347, 2018.
12. Surekha Borra, Rohit Thanki and Nilanjan Dey, "**Watermarking Techniques for Copyright Protection of Texts in Document**", Cryptographic and Information Security Approaches for Images and Videos, Chapter 12, CRC Press, Taylor and Francis Group, pp. 323-352, 2018.
13. Rohit Thanki, Surekha Borra, Komal Borisagar and Nilanjan Dey, "**Compressive Sensing in Color Image Security**", Cryptographic and Information Security Approaches for Images and Videos, Chapter 8, CRC Press, Taylor and Francis Group, pp.211-244, 2018.
14. Nabanita Das, Surekha Borra, Nilanjan Dey and Samarjeet Borah, "**Social Networking in Web Based Movie Recommendation System**", Social Networks Science: Design, Implementation, Security, and Challenges, Chapter 2, Springer International Publishing pp. 24-45, 2018.
15. Rohit Thanki, Surekha Borra, Komal Borisagar, "**A Hybrid Watermarking Technique for Copyright Protection of Medical Signals in Teleradiology**", Handbook of Research on Information Security in Biomedical Signal Processing, Chapter 17, pp.320-349, 2018.
16. Madhavi Gudavalli, Viswanadha Raju S, Vidya Sree P, Surekha Borra, "**Secured Optimal Cost Approach for Bimodal Deep Face Recognition in IoT and its Applications**", Handbook of Research on Big Data Management and the Internet of Things for Improved Health Systems, IGI Global, USA, Chapter 10,2018, pp.163-175.
17. B. Surekha, Nilanjan Dey, Amira. S. Ashour, "**Video Text Extraction and Mining**", Mining Multimedia Documents, CRC Press/ Taylor and Francis Group, Chapter 13, pp.173-192, 2017.

18. Rohit Thanki, Surekha Borra, Nilanjan Dey, Amira S. Ashour, "**Medical imaging and its objective quality assessment: An introduction**", Studies in LNCVB Series, Springer, Chapter 1, pp.3-32, 2017.
19. Padmavathi Kora, Ambika Annavarapu, Surekha Borra: "**ECG based Myocardial Infarction Detection using Hybrid Classification Techniques**", Studies in LNCVB Series, Springer, Chapter 3, pp.57-78, 2017.
20. Pragati Pukkela, Surekha Borra, "**Machine Learning based Plant Leaf Disease Detection and Severity Assessment Techniques: State-of-the-Art**", Studies in LNCVB Series, Springer, Chapter 8, pp. 199-226, 2017.
21. Ambika Annavarapu, Surekha Borra, Padmavathi Kora, "**ECG signal Dimensionality Reduction based Atrial Fibrillation Detection**", Studies in LNCVB Series, Springer, Chapter 14, pp.383-406, 2017.
22. Vidyasree P, Madhavi Gudavalli, Viswanadha Raju S, Surekha Borra, "**A BioApplication for Accident Victims' Identification using Biometrics**", Studies in LNCVB Series, Springer, Chapter 15, pp.407-447, 2017.
23. B Surekha, Kanchan Nazare Jayant, Viswanadha Raju S, Nilanjan Dey, "**Attendance Recording System Using Partial Face Recognition Algorithm**", Intelligent techniques in signal processing for multimedia security, Springer Studies in Computational Intelligence (SCI) series, Vol. 660, 2017, Chapter 13, pp.293-319
24. Lakshmi H R, B Surekha, Viswanadha Raju S, "**Real Time Implementation of Reversible Watermarking**", Intelligent techniques in signal processing for multimedia security SCI Series: Vol. 660, 2016, Springer Studies in Computational Intelligence (SCI) series, Vol. 660, 2017, Chapter 5, pp.113-132.
25. B. Surekha, S. Viswanadha Raju, Lakshmi HR, "**Visual Cryptography based Lossless Watermarking for Sensitive Images**", Proceedings of International Conference on Swarm, Evolutionary, and Memetic Computing. SEMCCO 2015., Springer series on Lecture Notes in Computer Science (LNCS), Vol. 9873, Chapter 3, pp.29-39, 2015.

## International Conference Publications

1. Pruthvi Dinesh, Sanjana B, Sirisha M, Sunil Kumar G R and Surekha Borra, "**In-Theatre Real Time Piracy Detection and Discouraging System**", International Symposium on Design Studies and Intelligence Engineering, Hangzhou, China, 29<sup>th</sup>- 30<sup>th</sup> October 2022. pp.220-229.
2. Lakshmi H R, Surekha Borra, "**A Hybrid Reversible Image Watermarking Technique based on Fractal Encryption and Grey Wolf Optimization**", 2021 IEEE Mysore Sub Section International Conference, 2021, pp. 445-449.
3. Sirisha M, Sanjana B, Vishal Goutham N, Surekha Borra, "Evaluation of Machine Learning Models for Real-Time Sign **Recognition**", 2021 IEEE Mysore Sub Section International Conference (MysuruCon), 2021, pp. 238-243.
4. Venkata Kranti B, Surekha Borra, "**Real-Time Face Detection and Recognition on Raspberry Pi Using LBP and Deep learning**", International Conference on Data Science, Machine Learning and Artificial Intelligence (DSMLAI), Namibia University of Science and Technology (NUST), Windhoek, NAMIBIA, 9<sup>th</sup> - 12<sup>th</sup> August 2021.
5. Ritu Patil, Vishal Goutham N, Surekha Borra, "**Detection of Piracy: Approaches and**



- Challenges**", 2nd International Conference on Adaptive Computational Intelligence, Springer, 15<sup>th</sup> - 16<sup>th</sup> December 2020, GSSS Institute of Engineering & Technology for Women, Mysuru, India.
6. Pratiksha P, Pooja K, Onkar Misra, Surekha Borra, "**Automation of Anomaly Detection in Warehouses: A Machine Learning-Based Approach**", Lect. Notes in Networks, Syst., Vol. 169, First Doctoral Symposium on Natural Computing Research.
  7. Renuka V Tali, Surekha Borra, "**Acute-Lymphoblastic Leukemia Detection through Deep Transfer Learning Approach of Neural Network**", Lect. Notes in Networks, Syst., Vol. 169, Proceeding of First Doctoral Symposium on Natural Computing Research.
  8. Junaid Khan, Akshata Shenoy, Bhavana, M, Megha Shavelgi, Surekha borra, "**Secure Anti-Piracy System**", 3<sup>rd</sup> International Conference on Intelligent Computing and Communication (ICICC - 2019), Springer, 7<sup>th</sup> & 8<sup>th</sup> June 2019.
  9. Kranti Budigi, Surekha Borra, "**Real-time Facial Recognition using Deep Learning and Local Binary Patterns**", Springer International Conference on Ethical Hacking- (eHaCoN-2018), Institute of Engineering & Management, Kolkata, West Bengal, India, 6<sup>th</sup> -7<sup>th</sup> April 2018.
  10. Raksha Ghosh, Pragathi R, Ullas S, Surekha Borra, "**Intelligent Transportation Systems: A Survey**", Second IEEE International conference on Circuits, Controls and Communications (C-CUBE-2017), R N Shetty Institute of Technology, Bengaluru, 15<sup>th</sup> -16<sup>th</sup> Dec 2017, pp.160-165.
  11. Ritu P Simha, Sri nithya S, Sneha P K, Rabichith, B. Surekha, "**Array-based Graphical Password Authentication**", McGraw-Hill International conference on Signal, Image Processing, Communication & Automation (ICSIPCA-2017), JSS Academy of Technical Education, Bengaluru, 6<sup>th</sup> - 7<sup>th</sup> July 2017, pp.271-275.
  12. Siri.T.Bhat, B. Surekha, "**Sparsh Glove: A Gesture-Based Hardware Control for a Multipurpose Wheelchair**", International Conference on Computer science & Technology allies in research, (ICCSTAR-16), City Engineering College, Bangalore, 27<sup>th</sup> -28<sup>th</sup> April 2016.
  13. Nazare Kanchan Jayanth, B. Surekha, "**Attendance Management System Using Hybrid Face Recognition Techniques**", IEEE Conference on Advances in Signal Processing, MKSS's Cummins College of Engineering for Women, Pune, 9<sup>th</sup>- 11<sup>th</sup> June 2016, pp.412-417.
  14. B. Surekha, Lakshmi HR, "**Asynchronous Implementation of Reversible Image Watermarking using Mousetrap Pipelining**", 6th IEEE International Advance Computing Conference (IACC - 2016), S R K R Engineering College, Bhimavaram, Andhra Pradesh, India, 27-28 February 2016, pp. 529-533.
  15. B. Surekha, S. Viswanadha Raju, Lakshmi HR, "**Visual Cryptography based Lossless Watermarking for Sensitive Images**", 6th International Conference on Swarm, Evolutionary and Memetic Computing (SEMCCO 2015), CMR Technical Campus, Hyderabad, 18<sup>th</sup> -19<sup>th</sup> December 2015.
  16. B.Surekha, S. Viswanadha Raju, "**AADHAR Integrated Biometric Vigilance System- A digital measure to curb malpractices in entrance tests**", India International Science Festival- Young Scientists' Meet, Department of Science and Technology, Government of India , IIT Delhi, 4<sup>th</sup>-8<sup>th</sup> December, 2015, pp. Indig298-1-5.
  17. B. Surekha, P. Ravi Babu, G.N. Swamy, "**Security analysis of a novel copyright protection**

- scheme using visual cryptography**, IEEE International conference on computing and communication technologies, Osmania University, Hyderabad, Dec. 11-13, 2014, pp.1-5.
18. G. N. Swamy, B. Surekha, "**Lossless Watermarking Technique for Copyright Protection of High-Resolution Images**", IEEE TENSYPMP'2014, Kuala Lumpur, Malaysia, April 14-16, pp. 73-78, 2014.
  19. B.Surekha, G.N.Swamy, "**A Semi-blind Image Watermarking based on Discrete Wavelet Transform and Secret Sharing**," IEEE International Conference on Communication, Information and Computing Technology (ICCICT-2012), Sardar Patel Institute of Technology, Mumbai, 18<sup>th</sup> -19<sup>th</sup> Oct 2012, pp.1-5..
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