

Personal Information

Name	Dr. Sanivarapu Prasanth Vaidya
Years of Experience	Teaching: 5.5 Years Research: 1 Year Industry: NIL
Email Id	prasanthvaidya.s@bvrithyderabad.edu.in
Areas of Specialization	Image processing, Digital Watermarking, Machine Learning



Educational Qualifications

Post Doctoral Fellowship	PDF	Data Science, IMT Atlantique University, France
Doctoral Degree	Ph.D.	Computer Science and Engineering
PG Degree	M.Tech.	Information Technology
UG Degree	B.Tech.	Computer Science and Engineering

Papers Published

International Journal Publications

1. **Prasanth Vaidya S.**, Fingerprint-based robust medical image watermarking in hybrid transform, The Visual Computer (2023), Volume 39(06), pp. 2245-2260. **(Impact Factor: 3.5)**
2. **Prasanth Vaidya S.**, Chandra Mouli PVSSR, Robust Digital Color Image Watermarking based on Compressive Sensing and DWT, Multimedia Tools and Applications (2023), Volume 88(1), pp. 11605-11619. **(Impact Factor: 3.6)**
3. **Prasanth Vaidya S.**, Chandra Mouli PVSSR, V. Ravi Kishore, A Novel Dog Breed Identification using Convolutional Neural Network, PriMera Scientific Engineering, Volume 2 Issue 1 January 2023
4. **Prasanth Vaidya S.**, Digital Watermarking System for Copyright Protection and Authentication of Images using Cryptographic Techniques, Applied Sciences (2022), Volume 12, pp. 8724. **(Impact Factor: 2.7)**
5. **Prasanth Vaidya S.**, Adaptive tamper detection watermarking scheme for medical images in transform domain, Multimedia Tools and Applications (2022), Volume 88(1), pp. 11605-11619. **(Impact Factor: 3.6)**
6. **Prasanth Vaidya S.**, Fingerprint-based robust medical image watermarking in hybrid domain, The Visual Computer. (2022) **(Impact Factor: 3.5)**
7. **Prasanth Vaidya S.**, V. Ravi Kishore., Adaptive Medical Image Watermarking System for E-Health Care Applications, SN Computer Science, 3 (2), 1-10. (2022) (SCOPUS)
8. **Prasanth Vaidya S.**, Rajesh, K.N., Reddy, N.R. and Reddy, N.C.S., Patient data hiding into ECG signal using watermarking in transform domain. Physical and Engineering Sciences in Medicine (2020), Volume 43, pp 213–226. **(Impact Factor: 7.099)**

9. **Prasanth Vaidya S**, Chandra Mouli PVSSR, and K C Santosh . " Imperceptible watermark for a game-theoretic watermarking system, International Journal of Machine Learning and Cybernetics (2019), Volume 10, Issue 6, pp 1323-1339. (**Impact Factor: 5.6**)
10. Asha Kumari , S. Prasanth Vaidya ." Automated parking management system for identifying vehicle number plate ", Indonesian Journal of Electrical Engineering and Computer Science (2019), Vol. 13, No. 1, pp. 77~84. (SCOPUS)
11. G. Saibaba, S. Prasanth Vaidya ." Developing an Userfriendly Online Shopping Web-Site ", Indonesian Journal of Electrical Engineering and Computer Science (2018), Vol. 12, No. 3, pp. 1126~1131. (SCOPUS)
12. **Prasanth Vaidya S**, and Chandra Mouli PVSSR. "Adaptive, robust and blind digital watermarking using Bhattacharyya distance and bit manipulation." Multimedia Tools and Applications (2017), Volume 77, Issue 5, pp 5609–5635 . (**Impact Factor: 3.6**)
13. **Prasanth Vaidya S**, and Chandra Mouli PVSSR. "A robust semi-blind watermarking for color images based on multiple decompositions." Multimedia Tools and Applications (2017), Volume 76, Issue 24, pp 25623–25656. (**Impact Factor: 3.6**)

International Conference Publications

1. **Prasanth Vaidya S**, Chandra Mouli, Kandala Rajesh, Silvia Gaftandzhieva, Rositsa Doneva, and Sadiq Hussain. "Adaptive Blind Color Image Watermarking Approach using BRISK Features Based on Contour Transform and Convolutional Neural Network." In Proceedings of the 24th International Conference on Computer Systems and Technologies, pp. 93-99. 2023.
2. Gurrala Sai Sree, Tungala Sasi Pavan Kumar, **Prasanth Vaidya S**, B.S.Kiruthika Devi, 2023. "An Analysis of Intelligent Parking System using Artificial Intelligence for IoT Applications", Advances in Transdisciplinary Engineering, Volume 32, PP-498-503
3. **Prasanth Vaidya S**, G Naga Satish, 2023. " Web Book Recommendation System Based on Collaborative Filtering and Association Mining", In Communications, Software and Networks PP-421-428. Springer, Singapore,2023.
4. N Siva Kumar, N. Akhila, **Prasanth Vaidya S**, G Naga Satish, 2023. " IOT-Based Smart Trash Collection with Swachh Survekshan" , In Communications, Software and Networks, PP-429-437. Springer, Singapore,2023
5. **Prasanth Vaidya S**,M Srinu, 2022. " Monitoring Pedestrian Social Distance System for COVID-19".Applications of Artificial Intelligence and Machine Learning , PP-215-224. Springer, Singapore,2022
6. Aparna G, **Prasanth Vaidya S**, 2022. " Smart Attendance with Real Time Face Recognition". In Inventive Systems and Control , PP-823-831. Springer, Singapore,2022
7. **Prasanth Vaidya S** and Ramanjaneyulu Y, 2022. " Finding Numbers of Occurrences and Duration of a Particular Face in Video Stream". In Computational Intelligence and Computer Vision , PP-95-105. Springer, Singapore,2022
8. Sri Latha P and **Prasanth Vaidya S** " Multi-Purpose Web Application Honeypot to Detect Multiple Types of Attacks and Expose the Attacker's Identity". In Computational Vision and Bio-Inspired Computing, PP-279-287. Springer, Singapore,2022
9. Veluri Ravi Kishore, S. Rama Sree, A. Vanathi, G. Aparna, and **Prasanth Vaidya S**. (2022) Hand Gesture Mapping Using MediaPipe Algorithm. In Proceedings of Third

International Conference on Communication, Computing and Electronics Systems, pp. 597-614. Springer, Singapore, 2022.

10. **Prasanth Vaidya S.** "Multi Face Recognition using CNN for Attendance System", In Machine Learning for Predictive Analysis (pp. 313-320). Springer, Singapore, (2020).
11. **Prasanth Vaidya S.**, Chandra Mouli P.V.S.S.R. (2020) A Robust and Blind Watermarking for Color Videos Using Redundant Wavelet Domain and SVD. In: Elçi A., Sa P., Modi C., Olague G., Sahoo M., Bakshi S. (eds) Smart Computing Paradigms: New Progresses and Challenges. Advances in Intelligent Systems and Computing, vol 766. Springer, Singapore
12. **Prasanth Vaidya S.** (2019) Multiple Decompositions-Based Blind Watermarking Scheme for Color Images. In: Santosh K., Hegadi R. (eds) Recent Trends in Image Processing and Pattern Recognition. RTIP2R 2018. Communications in Computer and Information Science, vol 1035. Springer, Singapore : 132-143.
13. **Prasanth Vaidya S.** (2019) A Blind Color Image Watermarking Using BRISK Features and Contourlet Transform. In: Santosh K., Hegadi R. (eds) Recent Trends in Image Processing and Pattern Recognition. RTIP2R 2018. Communications in Computer and Information Science, vol 1035. Springer, Singapore:203-215.
14. **Prasanth Vaidya S.** "Multipurpose Color Image Watermarking in Wavelet Domain using Multiple Decomposition Techniques." 2018 Second International Conference on Inventive Communication and Computational Technologies (ICICCT). IEEE, 2018: 251-255.
15. **Prasanth Vaidya S.**, and PVSSR Chandra Mouli. "Adaptive digital watermarking for copyright protection of digital images in wavelet domain." Procedia Computer Science 58 (2015): 233-240.

Invited Talk's

1. "Introduction to Watermarking", on December 02, 2016 at "One week FDP on Advanced Image Processing" organized by School of Computer Science and Engineering, VIT University, Vellore.

Workshop's Organized

1. Organized a webinar on "Applications of Coding Theory in Secure Communication", on October 09, 2021, Aditya Engineering College, Surampalem, India.

FDP's and Workshop's Attended

1. Course " Artificial Intelligence with Machine Learning in Java-Virtual", Oracle Academy, 13, Dec, 2022.
2. Online workshop on "Linear Algebra for Computer Science and Machine Learning " , NPTEL WORKSHOP, 19-20, Nov, 2022.
3. Online workshop on "Agile Testing and Project Management and Test Automation" , NPTEL WORKSHOP, 12, Nov, 2022.
4. FDP on "Artificial Intelligence for Computer Vision and Image Processing" organized by E&ICT Academy, NIT Warangal and KITS Warangal, 6th-18th June, 2022.

5. FDP on Data Analytics & Enhanced Teaching Methodologies offered jointly by CEMCA & APITA, AEC(A), 13-17, June 2022.
6. Multi Technologies, AEC(A), 28th June - 3rd July 2021.
7. APPLIED MACHINE LEARNING AND DATA SCIENCE, IIIT Dharwad, 17-21 May 2021.
8. MATLAB Master Class, Pantech Solutions (APSSDC), 17th May- 17th June 2021.
9. AI Symposium, University of South Dakota (USD), USA, 16-18 March 2021.
10. "Wearable Devices", Anna University, 15-19 Feb 2021.
11. Electrical & Computer Engineering", NIT Raipur, 4-8 Jan 2021.
12. Workshop on Supervised Machine Learning (SOLIVAR LABS)", GVPCE (A), May 7-18, 2018.
13. "2017 Joint Telematics Group/IEEE Information Theory Society Summer School on Signal Processing, Communications and Networks", IIT Bombay, May 28-31, 2017.
14. "One day FDP on LATEX for Researchers", School of Computer Science and Engineering, VIT University, Vellore on 16th November 2016.
15. "Mathematical Workshop on Complexity Theory" held at IIT Gandhinagar from 4–6th November 2016.
16. "Three day Workshop on wavelet theory and applications on signal and image processing", School of Electronics Engineering, VIT University, Vellore, 27th to 29th Nov, 2014.

Professional Memberships:

- Life Member (2010000433), Computer Society of India (CSI)
- Life Member (134207), Indian Society for Technical Education (ISTE)
- 93103956, Institute of Electrical and Electronics Engineers(IEEE) OCT 2022 - DEC 2023