



NAME	Dr.Shubha P
DESIGNATION	Assistant Professor
QUALIFICATIONS	Ph.D
CORE COMPETENCY	<ul style="list-style-type: none"> • Competent in using various simulation tools. • Skilled in designing web pages using HTML, CSS, and JavaScript.
AREA OF RESEARCH	Robotics and Image processing
INDUSTRY COLLABORATION	-
PUBLICATION from beginning	Indicated below
PATENT	02
PROJECT	-

CONSULTANCY	Nil
OUTREACH ACTIVITIES	1.Served as a Reviewer for several conferences 2.Served as a Jury member for project exhibition 3. Delivered various expert talks. 4.Chaired Technical sessions
AWARDS	-
PRODUCTS	-
PHD STUDENTS GUIDED	Nil
PHD STUDENTS GUIDING	Nil

Publication details:

a. Journal Papers

1.Dr.Shubha P, Dr.Ganapathi V Sagar, HamsaRekha S D, Shetal N, “*Effective Ethernet Controller Protocol Architecture Verification Strategy using System Verilog*”, International Journal

of Electrical and Computer Engineering (IJECE),Dec 2024, volume 14,Issue 6, ISSN: 2088-8708, DOI: 10.11591/ijece.v14i6.pp6195-6203,Q2, Scopus

2.Shubha P, Dr.Ganapathi V Sagar, HamsaRekha S D, ”*Vehicle Tracking, Detection and Locking system using OPENCV*”, Journal of emerging Technologies and Innovative Research(JETIR),April 2024, volume 11,Issue 4, ISSN:2349-5162,UGC Care

3. Shubha P , Aishwarya R B , Ananth Kumar Shinde V , Apoorva A S , Savitha R,”*Automation Based Innovative Solution for Cattle Livestock*”, Journal of Innovative Research in Technology(IJIRT),June 2024, volume 11,Issue 1, ISSN: 2349-6002,UGC Care

4. Dr.Shubha P, Namratha J, “ *Development and Implementation of Non-Contact Automatic Body Temperature Monitoring System with Sanitization*”, International journal of emerging

5. Shubha P and Dr. M. Meenakshi, “***Development of a Real time Wi-Fi based Autonomous corona warrior Robot***”, published in International Journal of Springer book series Adaptation, Learning & Optimization, vol 15. Springer,Cham(2022). https://doi.org/10.1007/978-3-030-97196-0_22.

6.Shubha P and Dr. M. Meenakshi, “***A Review of Multi Object recognition based on Deep learning***”, published in International Journal of Engineering Technology Research & management(iJETRM) (Impact factor: 4.520), Vol (04), PP 27-33, Nov 2020.

7.Shubha P and Dr. M. Meenakshi, “ ***Human Face Recognition using Local Binary Pattern algorithm - Real time Validation***”, published in International Journal of Springer book series Advances in Intelligent systems and computing, PP 240-246,, Jan 2020.

8. Shubha P and Dr. M. Meenakshi, “***An implementation and comparison of PCA and LBP based real time face recognition system***”, published in Journal of Instrumentation Society of India (ISOI) (Impact Factor:1.86) , IISc Bengaluru,Volume 49, No 02., June 2019,pp.56-60.

9.Shubha P and Dr. M. Meenakshi, “***Design and Development of Face Recognition algorithms– A Comparison***”, published in Journal of Advances in Computational Sciences and Technology (ACST),Volume 11, No.1 (2018) Spl. Issue .

10.Rudresh.H.G, and Shubha P, “***Colour sensor based object sorting robot*** “ , published in International research Journal of Engineering and technology(IRJET), vol 04,Issue 08, Aug - 2017, e-ISSN 2395-0056, pg.no. 504-507

b. International Conference Papers

1. Shubha P and Dr. M. Meenakshi, presented a paper entitled “***Validation of Face Recognition System Utilizing a Combined PCA and LBP Algorithm***”, has presented at an **IEEE** International Conference on Interdisciplinary Humanitarian Conference for Sustainability(IIHC-2023), held at Sri.Venkatshwara College of Engineering, Bangalore from 3rd -4th November 2023.
2. Shubha P and Dr. M. Meenakshi, presented a paper entitled “***Human Face Recognition using LBP algorithm-Real time validation***”, has presented at an International Conference on

Computational Vision and Bio Inspired Computing (ICCVBIC-2019) held at RVS Technical Campus, Coimbatore from 25th -26th September 2019.

3. Shubha P and Dr. M. Meenakshi, presented a paper entitled ***“Design and Implementation of Healthcare Assistive Robot”***, has presented at an IEEE International Conference on Advanced Computing & Communication Systems (ICACCS 2019) held at Sri Eshwar College of Engineering, Coimbatore (Scopus indexed), from 15th -16th March 2019, (ISBN-Proceedings: 978-1-5386-9533-3/19/©2019 IEEE).
4. Shubha P and Dr. M. Meenakshi, presented a paper entitled ***“Design and development of face recognition algorithms-A comparison”***, has presented at an International conference on Advances in science & technology –(ICAST-2018) held at KJ Somaiya Institute of Engineering and information Technology, Sion, Mumbai from 6th -7th March 2018, pp 78-82.
5. Shubha P and Dr. M. Meenakshi, presented a paper entitled ***“Design and Implementation of low cost path planner”***, has presented at an IEEE International conference on current trends towards converging technologies(ICCTCT 2018) held at SVS college of engineering , Coimbatore, Tamilnadu from 01st -03rd March 2018, Vol 2, (ISBN-Proceedings: 978-1-5386-3702-9/18/© 2017 IEEE).
6. Shubha P and Dr. M. Meenakshi, presented a paper entitled ***“Path planning for Autonomous Manipulator using Particle Swarm optimization Algorithm”***, has presented at an International conference on Development of Smart Cities: Interface, Governance and Technology (ICDSC 2016) held at Dr. Ambedkar Institute of Technology, Bangalore from 09th -10th September 2016.

c. National Conference Papers

1.Shubha P and Dr. M. Meenakshi, presented a paper entitled ***“Design and Implementation of Healthcare Assistive System”***, has presented at an First national conference on Technology Innovation(NCTI-2018) held at Dr. Ambedkar Institute of Technology , Bangalore from 6th -7th June 2018, Bonfring publications, pp 28-30.

2.Sushmitha M,Gagana H S, Chandana L, Ravi S Patil, Shubha P, presented a paper titled ***“Multi Account Embedded ATM Card with enhanced security”***, Fifth national conference on Computational control systems & optimization(CCSO-2019), Dr.AIT, Bangalore, 25th and 26th April 2019, ISBN 978-93-87862-70-8,Pg no 58-60.

3. Shubha.P, Dr.M.Meenakshi presented a paper titled ***Design and implementation of Healthcare Assistive System***, in the First National conference on Technology Innovation(NCTI-2018), Dr.AIT, Bangalore, 6th and 7th of June 2018, ISBN 978-93-86638-84-7,Pg.28-30.

4. Gagana K N, Shubha P presented a paper titled ***“Face recognition based class room attendance system”***. in the national conference on sustainable engineering and management, the oxford college of engineering, Bangalore, 26-27 May 2017, Pg no. 43.
5. Gagana K N, Shubha P presented a paper titled ***“Design and Implementation of AMBA Bus Protocol for Memory Image Transfer Application”***, 4th National Conference CCSO2017, dept.of IT, Dr.AIT, 30-31st March 2017, pp 24-28, ISBN 978-93-86176-80-6.
6. Shilpa N, Shubha P presented a paper titled ***“Power Factor Correction Using Orcad Software”***, 4th National Conference CCSO2017, dept.of IT, Dr.AIT, 30-31st March 2017, pp 29-35, ISBN 978-93-86176-80-6.
7. Shubha. P, M. Meenakshi presented a paper titled ***Object Detection and Tracking using Background subtraction method and Kalman Filter***, 4th National Conference CCSO2017, dept.of IT, Dr.AIT, 30-31st March 2017, pp 52-55, ISBN 978-93-86176-80-6.
8. ***“Automatic Ration Distribution Using Biometric Technology”***, 4th National Conference CCSO2017, Dept. of IT, Dr.AIT, 30-31st March 2017, pp 135-140, ISBN 978-93-86176-80-6.
9. ***“Comparison of various edge detection Techniques”***, 3rd National conference CCSO2015, 23rd and 24th April 2015, Dr.AIT, vol I, pp 126-129, ISBN no. 978-93-84743-78-9.
10. ***“Comparison of Inverse and Wiener Filters in Frequency domain”***, 3rd National conference CCSO2015, 23rd and 24th April 2015, vol1, pp 68-70, Dr.AIT, ISBN no. 978-93-84743-78-9.
11. ***“Image registration using Normalized Cross Correction Based Method”***, 3rd National conference CCSO2015, 23rd and 24th April 2015, Dr.AIT, vol1, pp 124-125, ISBN no. 978-93-84743-78-9.
12. ***“CAN and LIN Protocols Based Bus Architecture for Satellite Communication”***, 3rd National conference CCSO2015, 23rd and 24th April 2015, Dr.AIT, vol –II, pp 56-57, ISBN no. 978-93-84743-78-9.
13. ***“Design and Development of Wireless Intelligent Robot Using Microcontroller”***, 3rd National conference CCSO2015, 23rd and 24th April 2015, Dr.AIT, vol-II, pp 28-31, ISBN no. 978-93-84743-78-9.
14. ***“Survey on Wheelchair for disabled person using Robot”*** 2nd National conference on CCSO2013 Dr.AIT, May 10, 11 2013, pp 90-92, ISBN 978-93-82338-63-5.
15. ***“Comparison of VHDL and Verilog with Examples”*** 2nd National conference on CCSO2013 Dr.AIT, 10-11 May 2013, pp 29-34, ISBN 978-93-82338-63-5.
16. ***“Design & development of printer with intelligent heat adaptation”*** 2nd National conference on CCSO2013 Dr.AIT, ISBN 978-93-82338-63-5, pp 104-105, May 10-11 2013.
17. ***“Accurate Automatic LPG volume measurement system”***, 2nd National conference on CCSO2013 Dr.AIT, 10-11 May 2013, pp, ISBN 978-93-82338-63-5.

18.”*Image enhancement using spatial Domain filters*”, 2nd National conference on CCSO2013 Dr.AIT, ISBN 978-93-82338-63-5, May 10-11 2013.

19.”*An Assistive portable device and gesture control for speech and hearing impaired using BSN technology*”, 2nd National conference on CCSO2013 Dr.AIT, ISBN 978-93-82338-63-5, May 10-11 2013.

20.”*Low cost ECG*” National conference on INFONIX12 at Don Bosco Institute Of Technology, Feb 26 2012.

21. “*Motion tracking using corner selection method*” National conference on BMSPI, RVCE, Bangalore, 26th Feb 2011.

22. “*Line tracking Robot using Microcontroller*” national conference on INFONIX11 at Don Bosco Institute Of Technology, March 10-12 2011.

20. “*Tracking Objects in Video Sequence using Rule Based Method*” National conference on CCSO2011 at Dr.AIT May 12-13 2011.

23.”*Health monitoring of UAV Engine*” National conference on CCSO2011 at Dr.AIT May 12-13 2011

24.”*Single Moving Object Detection by Frame Difference Method*”, National Conference on Computing Communication and Technology CCT2010 RVCE Bangalore. 22nd and 23rd January 2010.

Patent details:

Sl.No.	Title	No.	Authors	Date	Indian/International
1	Design Augmented Intelligence based skin Cancer Classification and Prediction	202441008169	Shubha P, Nayana R Shenoy	08-03-2024	Indian ,Published
2	Secure and privacy preserving data exchange in IoT based healthcare systems with AI Analysis	202341054302	Dr.Ganapathi V Sagar,Dr. Revanna C R,Dr.Shubha P,Dr.Sridevi N,Mrs.Hamsa Rekha S D	01-09-2023	Indian, Published