P.E.S. College of Engineering, Mandya - 571401

(An Autonomous Institution, affiliated to VTU, Belagavi)

Faculty Profile

General

Name	Dr. Minavathi
Designation,	Professor & Dean (Research)
Department & Affiliated Institution	Department of Computer Science and Engineering P.E.S College of Engineering, Mandya – 571 401
Research Area	❖ Medical Image Processing ❖ Network Forensics ❖ Internet Of Things
Contact Number	+91 9845302882
Email ID	minavathi@pesce.ac.in

Academic Profile

Educational Qualifications

Degree	College	University	Year of Passing	% ge	Class
Ph. D	Mysore University	University of Mysore, Mysuru	2014	-	-
M. S	BITS, PILANI	BITS, PILANI	1995	72	1- Class
B. E	P E S College of Engineering, Mandya	University of Mysore, Mysuru	1990	60	1 - Class

Professional Experience

Organization and Department	Designation	Period	Total Experience
• AIT, Chikmagalore • BIT , Bangalore • PESCE, Mandya • PESCE, Mandya	• Lecturer • Lecturer • Assistant professor • Professor	• 1990-1991 • 1991-1995 • 1995 – 2014 • 2014- till date	• 1 Year • 4 years • 19 years

Reports on Academic and Research Activities

Academic Activities

Teaching Records (Details of courses taught)	Undergraduate: Digital Design, Networks, Microprocessor, Microcontroller, Analysis and design of algorithms, operating systems, Java, Concepts of Computer programming and Python, OOPS, Post Graduate (M. Tech): Advanced Networks, OOMD

Research Guidance (Candidates Awarded / Pursuing Ph.D / M.Sc., Engg./ M.Phil)

Degree	Ph. D.	M.Sc., Engg.	M.Phil
Awarded	*Nil*	*Nil*	nil
Pursuing	*5*	*Nil*	*Nil*

Sponsored Research Projects (List of Projects taken up /completed and funds receiver & funding sources)

Project Title	Project Funded by	Grants Sanctioned	Grants Received
Setting up Network forensics lab	*VGST, Karnataka*	*20 lakhs*	*Rs 10 lakh*

Research Publications in Refereed Journals and Conferences/Symposia

Number of Publications in	National	International
Journals	*01*	*17*
Conferences/Symposia	*01*	*11*

Other Important Responsibilities Held in the College

1. *Worked as Head of the department of IS &E for 6 years*
2. *Warden for PESCE, Girls hostel*
3. *Worked as BoS and BoE Chairman for IS &E*
4. *PESCE – Attendance committee chairman*
5. *PESCE- Library committee chairman*
6. *Working as Dean (Research)*

LIST OF PUBLICATIONS

1. Minavathi, Murali. S, M. S. Dinesh. "Model based approach for Detection of Architectural Distortions and Spiculated Masses in Mammograms". International Journal of Computer Science and Engineering (IJCSE), Vol. 3 No. 11 , pp. 3534-3546, ISSN : 0975-3397

2. Minavathi, Murali. S, M. S. Dinesh. " Curvature and shape analysis for the detection of spiculated Masses in breast ultrasound images". Springer sponsored International Journal of Machine Intelligence (IJMI), Volume 3, Issue 4, pp-333-339, ISSN: 0975–2927 & E-ISSN: 0975–9166.

3. Minavathi, Murali. S, Dinesh. M.S, "Segmentation scheme for mammograms". Proceedings of International conference on Emerging Trends in Engineering, ICETE, pp: 210-214, **ISBN**: 978-81-923974-0-5, 2011, Nitte, India.

4. Minavathi, Murali. S, Dinesh.   "Detection of Architectural Distortions with Spiculations in Mammograms by analyzing the structure of Shows mammary gland". Proceedings of DBLP indexed Fifth International Conférence on Artificial Intelligence (IICAI), pp.218-230, ISBN: 978-0-9727412-8-6, 2011, Tumkur, India.

5. Minavathi, Murali. S, M. S. Dinesh, " Classification of Mass in Breast Ultrasound Images using Image Processing Techniques" . International Journal of Computer Applications, 2012 (IJCA), 42(10):29-36

6. Minavathi, Murali. S, Dinesh M. S., "Information Fusion from Mammogram and Ultrasound images for better Classification of Breast Mass ". Proceedings of Springer, International Conference on Advances in Computing (ICAdC-2012) , AISC 174, pp. 943-953, **ISSN**: 2046-5149, Bangalore, India.

7. Minavathi, Murali. S, Dinesh. M. S. " Dual Modality: Mammogram and Ultrasound Feature level Fusion for characterization of Breast Mass". International journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-2, Issue-4, 2013, ISSN: 2278-3075.

8. Minavathi, Sheetal D, Pooja S H. "Multimedia applications and mobile computing". National level conference SWATAHA-2013, PESCE, Mandya

9. Minavathi, Vaishali N. Telang, Vruschitha J.S. 2014. " Gi-Fi: next generation wireless technology ". National level conference-2014 , Alvas, Moodbidri

10. Minavathi, Tamanna. "Text Detection in Video Frames through Bayesian Classification and Boundary Growing" . International Journal of Emerging Technology and Advanced Engineering (IJETAE), 2015-ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 5, Issue 5.

11. Minavathi, M.Amritha. "Detection of micro-calcification in Ultra sound images". International Journal of Computer Science and Information Technology Research(IJCSITR), 2015, ISSN2348-1196,Vol-3,Issue 2, pp(905-910)

12. Minavathi, J. Vindyashree . Disaster recovery using multi-cloud system, , ISRASE-15

13. Dr.Minavathi, Avinash.K.P. 2015. Effective use of resources for cost minimization on big data in distributed data centers. NCRTS-2015, CEC, Bangalore

14. Dr. Minavathi, Neelaja K, "Medical Image Processing and Classification Techniques for Preventive Cancer Care: A Survey", ICERECT-2015, PESCE, Mandya.

15. Namratha H T, Dr. Minavathi "Implementation of Cluster based Wireless Sensor Network for Secure   and Efficient Data Transmission"International Journal of

Advance Research in Computer Science and Management Studies Volume 4, Issue 5, Page no-63-67, May 2016

16. Vishaka S.P, Dr.Minavathi "Enhanced Distributed Energy Efficient Clustering Scheme Using Artificial Bee Colony Algorithm for Heterogeneous WSNs" International Journal of Engineering Science and Computing, Volume 6, Issue No. 5, page no 5322-5325, May 2016

17. Saleem Pasha, Akshay Kumar S, Chandana R, Vaishali N Telang, Vruschitha J S, Dr.Minavathi "Under Water Acoustic: A 4D WSN Approach for Deep Sea Exploration" International Journal of Innovative Research in Computer and Communication Engineering Vol. 4, Issue 5, Page no-10023-10031,May 2016

18. Dr.Minavathi & Dr Dinesh M.S "Feature Level Fusion of information from mammogram & ultrasound image for detection of Micro-calcification in breast" International Conference on innovation Engg. Technologies (ICIET) held in Los Angeles, USA, PP(21-26), 17th May 2016

19. Dr Minavathi, Sahana "Kidney Disease Prediction Using Data Mining Classification Techniquesand ANN" International Journal of Innovative Research in Computer and Communication Engineering Vol. 5, Issue 4, April 2017 PP 8675-8679

20. Dr Minavathi, Pushpa "Industrial Process Monitoring And Controlling Through Wireless Communication Using Raspberry PI" International Journal of Innovative Research in Computer and Communication Engineering Vol. 5, Issue 4, April 2017 PP 1111-1115

21. Geethanjali T.M, Dr. Minavathi "Review on recent methods for segmentation of Liver using Computed Tomography and Magnetic Resonance Imaging Modalities" 23rd -24th Aug 2018 ICERECT-2018

22. RakshtihN, Dr. Minavathi " A Literature review on energy harvesting for internet of things applications" 23rd -24th Aug 2018 ICERECT-2018

23. Sagar , Prof Dr. Minavathi "Character Recognition on Palm Leaf Manuscripts- A Survey" 23rd -24th Aug 2018 ICERECT-2018

24. Shashidhara D, Prof Dr. Minavathi "A Survey: On network forensics data acquisition and analysis Tools" 23rd -24th Aug 2018 ICERECT-2018

25. Dr. Minavathi and Sahana D Gowda, " Smart Irrigation System and Pest Detection Using IOT ", International Journal of Computer Science and Mobile Computing, Vol.7 Issue.5, May- 2018, pg. 115-123.

26. Dr Minavathi, Vidyashree M, " Digital Forensic System Using Web-Application Security for Prevention of Network Attack", International Journal of Innovative Research in Science, Engineering and Technology , Vol. 8, Issue 5, May 2019

27. Dr.Minavathi. and Geethanjali T. M., "Liver Isolation from abdomen CT ", Indian Journal of Applied Research, volume-9 , issue-7, july - 2019 , print ISSN no. 2249 – 555x

28. Rakshith N, Dr. Minavathi., "A Study of Various Simulator for an Energy-Neutral Operation of Internet of Things Nodes ", TEST Engineering and Management, Published by: The Mattingley Publishing Co., Inc., January-February 2020, ISSN: 0193-4120 Page No. 15315 - 15319

29. Dr. Minavathi, Bhanushree V. K., " CLOUD PACKETS FORENSICS THROUGH NIDS AND NIPS WITH HONEYPOT ", International Journal of Computer Sciences and Engineering (IJCSE), Vol.-8, Issue-4, Apr 2020, ISSN: 2347-2693.

30. Shanthi Swaroop M.S. , Minavathi, "Enhancing Cyber Security in Modern IOT Using Intrusion Prevention Algorithm for IOT " International Journal of Computer Sciences and Engineering, Vol. 9, Issue.4, April 202