


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

(An Autonomous Institution, affiliated to VTU, Belagavi)

Faculty Profile

General

Name	Dr. Nagarathna	
Designation,	Professor	
Department & Affiliated Institution	Department of Computer Science and Engineering P.E.S College of Engineering, Mandya – 571 401	
Research Area	Sensor Networks	
Contact Number	+91 9481210125	
Email ID	nagarathna@pesce.ac.in	

Academic Profile

Educational Qualifications

Degree	College	University	Year of Passing	% ge	Class
Ph. D	Anna University	Anna University, Chennai	2016	-	-
M. Tech	PESCE, Mandya	VTU, Belgaum	2005	70%	FCD
B.E	PESCE, Mandya	VTU, Belgaum	1989	62%	FC

Professional Experience

Organization and Department	Designation	Period	Total Experience
P.E.S. College of Engineering, Mandya	Lecturer	26/06/1996-Sept 2005	9 years
P.E.S. College of Engineering, Mandya	Assistant Professor	Sept 2005 to April 2015	9 years 5 months
P.E.S. College of Engineering, Mandya	Associate Professor	April 2015- Feb 2017	1 year 10 months
P.E.S. College of Engineering, Mandya	Professor	Feb 2017 till data	4 years 1 months

Reports on Academic and Research Activities

Academic Activities

Teaching Records (Details of courses taught)	Computer Concepts and C programming, Data Communications, Object Oriented Programming with C++, Object Oriented Programming with Java, Logic design, Computer Networks, Client Server Programming, Theory of Computation, Wireless sensor networks, Embedded Systems, Data Analytics Digital Logic Design. Sensor Networks
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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	03	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
Nil	Nil	Nil	Nil
Research Publications in Refereed Journals and Conferences/Symposia			
Number of Publications in	National	International	
Journals	-	14	
Conferences/Symposia	2	5	
Other Important Responsibilities Held in the College			
1. HoD of Computer Science and Engineering Department			

LIST OF PUBLICATION

List of Publications in Journals and Conferences:

- 1) Supriya M.S and Nagarathna "A **Machine Learning Based Crop and Fertilizer Recommendation System**" in International Journal of Computer Sciences and Engineering, Vol.-9,Issue-7, July 2021 E ISSN:2347-2693, pp.64-68
- 2) Shwetha M. K and Nagarathna, "**Leaf Blast Rice Disease Prediction Model Based on Environmental Factors Using Binary Classifiers**" in (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 12 (1) , jan – feb 2021, pg. 18-2.
- 3) Deepika and Nagarathna (2020), "**Monitoring and Detection of Heat Stress of Layers in Poultry Farm using Multiple Linear Regression**" in Third International Conference on Smart Systems and Inventive Technology (ICSSIT 2020) is being organized by Francis Xavier Engineering College, Tirunelveli, India.
- 4) Nithin Kumar and Nagarathn (2020)a, "**Survey on Computational Entomology: Sensors based approaches to detect and classify fruit flies**" in 11th International Conference on Computing, Communication and Networking Technologies"(ICCCNT) organized by IIT Kharagpur.
- 5) Arpitha M.S and Nagarathna (2020), "**Voice Pathology classification System Using Machine Learning**" in International Journal of Computer Science and Mobile Computing, IJCSMC,Vol. 9, Issue. 5, pg.119 – 124.

- 6) Arpitha M.S and Nagarathna (2020), “ **A Framework for Classification of Vocal Disorders without Clinical Intervention**” in International Journal of Computer Sciences and Engineering, Vol.-8,Issue-1, Jan 2020 E-ISSN: 2347-2693, pp.70-73.
- 7) Chaithra N. T , Nagarathna and Nithin Kumar (2019) , “**Measurable Nutrients and Available Sensors to Design a Soil Tester with Crop recommendation**”, in IOSR Journal of Computer Engineering, (IOSR-JCE) e-ISSN: 2278-0661,p-ISSN: 2278-8727, Volume 21, Issue 2, Mar - Apr 2019, pp 17-22.
- 8) Deepik, Nagarathna,G P Shivshankar, Channegowda (2018), Chapter Title “**Experimental Investigations on Quality of Water Used in Poultry Farm Using Sensors**” ,Book Title Emerging Research in Electronics, Computer Science and Technology Copyright Year 2018, copyright Holder Name Springer International Publishing Switzerland, pp 1-6.
- 9) Amreen Saba and Nagarathna (2018), “**Comparative Analysis of DCT and SVD for Efficient Image Compression**” Journal of Emerging Technologies and Innovative Research JETIR, pp.445-450, Volume 5, Issue 6, June 2018, ISSN-2349-5162
- 10) Amreen Saba and Nagarathna (2017), “**IOT Based Energy Efficient Security System**” in International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT - 2017) pp .132-136, December 2017, IEEE ISBN: 978-1-5386-1144-9.
- 11) Akshatha.A and Nagarathna (2017), “**Design and Implementation of Vehicle Emission Testing System Using MQ-5 and MQ-7 Sensors**” in International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE), Volume 5, May 2017, Issue 5, ISSN: 2320 – 9798
- 12) Arpitha S. K and Nagarathna (2017), “**Design And Implementation Of Driverless Car To Recognize Traffic Light**” in International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE), Volume 5, May 2017, Issue 5, ISSN: 2320 – 9798
- 13) Nithin Kumar, Nagarathna (2016), “**Communication Cost Reduction by Data Aggregation: A Survey**” in International Journal for Modern Trends in Science and Technology, (IJMTST), Volume: 2, Issue: 06 , pp. 14-21, June 2016, ISSN: 2455-3778 .
- 14) Chaithra G. V., Nagarathna (2016), “**User Preferences Based Recommendation System for Services using Map reduce Approach** ‘in International Journal for Modern Trends in Science and Technology (IJMTST), Volume: 2, pp. 66-71, Issue: 05 , May 2016, ISSN: 2455-3778.

- 15) Nithin Kumar, Sachin Acharya T, Nagarathna (2016), “**PAILLIER HOMOMORPHISM: A Technique for Secure Data Transmission in Sensor Network**” in International Journal of Computational Science, Mathematics and Engineering (IJCSME), Volume: 3, Issue: 1, pp. 1-6, January 2016, E-ISSN-2349-8439
- 16) Latanjali Shinde, Nagarathna (2015), “**Naïve Bayesian Classifier for Product Demand Forecasting**” in International Journal of Computer Science and Information Technology Research, Volume: 3, Issue: 2, pp.872-878, April - June 2015, ISSN 2348-1196.
- 17) Nagarathna, Sowjanya V.M (2015)., “**Product Label Reading System For Visually Challenged People**” in International Journal of Computer Science and Information Technology Research, Volume: 3, Issue: 2, pp. 897-904, April - June 2015, ISSN 2348-1196.
- 18) Parvathi S.J., Nagarathna (2015), “**RFID Based Supermarket Queue Prevention and Automation System for Physically Challenged People**” in International Journal of Computer Science and Information Technology Research, Volume: 3, Issue: 2, pp. 835-840, April - June 2015, ISSN 2348-1196.
- 19) Nagarathna, S.Valli (2015), “**An Adaptive Refresh Distributed Model for Estimation and Efficient Tracking of Dynamic Boundaries**”. Twenty First National Communication Conference (NCC), 2015, IIT Mumbai, pp. 1-6, Publisher: IEEE, INSPEC Accession Number: 15058893.
- 20) Nagarathna, S.Valli, D. Manjunath (2014), “**A Spatio-Temporal Model for Estimation and Efficient Tracking of Dynamic Boundaries**”. Twentieth National Communication Conference (NCC), 2014 , IIT Kanpur, pp. 1-6, Publisher: IEEE, INSPEC Accession Number: 14299224.
- 21) Nagarathna, S.Valli, D. Manjunath (2012), “**Using an Evolution Model for Efficient Estimation and Tracking of Dynamic Boundaries**”. TENCON 2012 - 2012 IEEE Region 10 Conference, CEBU, pp. 1-6, Publisher : IEEE, INSPEC Accession Number: 13249789 , ISSN : 2159-3442,