


Faculty Profile

| General | | | | | | |
|---|--|--------------------------|---------------------|-----------|---|--|
| Name | Dr. Nagarathna | | | |  | |
| Designation, Department & Affiliated Institution | Professor and HOD Department of Computer Science & 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 & dept. | Designation | Period | Total of Experience | | | |
| PESCE, Mandya | Lecturer | 26/06/1996-Sept 2005 | 9 years | | | |
| PESCE, Mandya | Assistant Professor | Sept 2005 to April 2015 | 9 years 5 months | | | |
| PESCE, Mandya | Associate Professor | April 2015- Feb 2017 | 1 year 10 months | | | |
| PESCE, Mandya | Professor | Feb 2017 till date | 4 years 9 months | | | |
| Report of Work | | | | | | |
| Teaching (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 | | | | | |
| Research Guidance (Ph.D /M.Sc Engg Student awarded & pursuing) | Awarded | | Pursuing | | | |
| | Ph.D | M.Sc Engg | Ph.D | M.Sc Engg | | |
| | -- | | 03 | | | |
| Sponsored Research (List of Projects taken up/completed and funds receiver & funding sources) | -Nil- | | | | | |
| Publications | | | | | | |
| Papers in Refereed Journals (No.) | National | | International | | | |
| | - | | 14 | | | |
| Papers at Conferences (No.) | National | | International | | | |
| | 2 | | 5 | | | |

LIST OF PUBLICATION

List of Publications in Journals and Conferences

- 1) MS Supriya ., Nagarathna, “A Machine Learning Based Crop and Fertilizer Recommendation System International Journal of Computer Sciences and Engineering Vol.9, Issue.7, Pg 64-68, Jul 2021, E-ISSN: 2347-2693
- 2) Shwetha M.K and Dr. 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. 18-23, ISSN:0975-9646
- 3) Deepika and Nagarathna, “ **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 during 20-22 August 2020. Electronic ISBN:978-1-7281-5821-1
- 4) Nithin Kumar and Nagarathna, “**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, July 2020,Electronic ISBN:978-1-7281-6851-7
- 5) Arpitha M.S and Nagarathna, “ **Voice Pathology classification System Using Machine Learning**” in International Journal of Computer Science and Mobile Computing, IJCSMC, Vol. 9, Issue. 5, May 2020, pg.119 – 124, ISSN 2320–088X
- 6) Arpitha M.S and Nagarathna, “ **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, Jan 2020, pp.70-73
- 7) Chaithra N. T , Nagarathna and Nithin Kumar, “**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) Deepika and Nagarathna, 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 2015, copyright Holder Name Springer International Publishing Switzerland, pp 1-6.
- 9) Amreen Saba and Nagarathna, “**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, “**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, “**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 (IJRCCE), Volume 5, May 2017, Issue 5, ISSN: 2320 – 9798
- 12) Arpitha S. K and Nagarathna, "**Design And Implementation Of Driverless Car To Recognize Traffic Light**” in International Journal of Innovative Research in Computer and Communication Engineering (IJRCCE), Volume 5, May 2017, Issue 5, ISSN: 2320 – 9798
- 13) Nithin Kumar, Nagarathna, “**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, “**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, SachinAcharya T, Nagarathna, “**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, “**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., “**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, “**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, “**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 , “**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, “**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,