

**Name** : Dr.V.Usharani  
**Designation** : Assistant Professor (SG)  
**Department** : Computer Science with Data Analytics  
**Qualification** : M.C.A., M.Phil., Ph.D., UGC-NET.



**Experience:**

Teaching: 16 .3 Years      Industry: Nil      Research: 7 Years

**Area of Specialization(s)** : Image Processing-Biometrics

**Email (Official ID)** : usharani@drngpasc.ac.in

**Academic Qualifications**

| Degree  | Branch                | Institution / University Name | Year of Graduation |
|---------|-----------------------|-------------------------------|--------------------|
| NET     | Computer Applications | UGC                           | 2019               |
| Ph.D.   | Computer Applications | Anna University               | 2016               |
| M.Phil. | Computer Science      | Madurai Kamaraj University    | 2004               |
| M.C.A.  | Computer Applications | Cauvery College For Women     | 2001               |
| B.Sc.   | Computer Science      | Maharaja College For Women    | 1998               |

**Additional Qualifications**

| Diploma / Vocational / Certification | Area of Specialization  | Institution / University / Agency Name | Year |
|--------------------------------------|-------------------------|--|------|
| Certification                        | R Programming           | Spoken Tutorial                        | 2020 |
| Certification                        | Moodle-LMS              | Spoken Tutorial                        | 2020 |
| Certification                        | Python for Data Science | NPTEL                                  | 2019 |
| Certification                        | Stress Management       | NPTEL                                  | 2018 |
| Certification                        | Research Writing        | NPTEL                                  | 2018 |

**Research Publications (Indexed)**

**International**

- 1) Dr.V.Usharani, **Working of Finger Print Based Vehicle Control System**, International Journal of Scientific Research in Engineering and Management, Vol.04 Issue 03,pp.1-4, Mar 2020, ISSN: 2582-3930 (UGC Approved)

- 2) Dr.V.Usharani, **Hybrid ABC for Optimal Feature Selection in Palm Print and Palm Vein with Support Vector Machine Parameter Optimization**, Journal of Advanced Research in Dynamical and Control Systems, Vol. 10, 15-Special Issue, Nov 2018, ISSN:1943-023X (Indexed in Scopus)
- 3) Dr.V.Usharani, **A Study On Pattern Recognition Of Tumor Images In Medical Image Analysis**, International Journal of Engineering Research in Computer Science and Engineering, Vol. 4 Issue 12 , pp.308-310, Dec 2017, ISSN (Online) 2394-2320 (UGC Approved)
- 4) V. Usharani, Dr. S. V. Saravanan, **Survey of Multimodal Biometric Systems**, International Journal of Applied Engineering Research, Vol. 10 No.38, pp.28682-28688, April 2015, ISSN: 0973-4562, Research India Publications (Indexed in Scopus)
- 5) V. Usharani, Dr. S. V. Saravanan, **Multimodal Biometrics using Palm Print and Palm Vein**, Journal of Theoretical and Applied Information Technology, Vol.67 No.1, pp.177-185, September 2014, ISSN: 1992-8645 E-ISSN: 1817-3195, (Indexed in Scopus)

#### *National*

- 1) V. Usharani, Dr. S. V. Saravanan, **Optimized Feature Selection for Multi Modal Biometrics using Palmprint and Palmvein**, Journal of Pure and Applied Microbiology, Vol. 9, Special Issue on Recent Research Challenges in Bio-medical Applications., pp. 243-252, August 2015, Print ISSN:0973-7510, Online ISSN: 2581-690X (Indexed in Scopus)

#### **Other Publications: International / National Journals**

- 1) Dr. V. Usharani, **APP To Connect Farmers with FPI and Retail**, International Research Journal of Engineering and Technology, Vol. 7 Issue 02, pp. 3004-3005, Feb 2020, e-ISSN: 2395-0056 p-ISSN: 2395-0072 ( Indexed in Google Scholar)

#### **Presentations in Conference**

- 1) **Machine Learning and Higher Education** Second International Conference on Research Trends in Computing Technologies, Dr.N.G.P. Arts and Science College, Coimbatore, 28-Feb-20 to 29-Feb-20
- 2) **A Review on Machine Learning Algorithm** First International Conference on Multidisciplinary Academic Research and Global Innovations, KG College of Arts and Science, Coimbatore, 14-Feb-20 to 15-Feb-20
- 3) **Study on Finger Print Based Vehicle Control System** Tenth National Conference on

Machine Learning and Smart Technology, Sri Krishna Arts and Science College, Coimbatore, 12-Feb-20

4) **An Efficient and Securable Online Voting System for College Election**, National Conference on Emerging Trends in Mathematics with Computer Applications, Dr.N.G.P. Arts and Science College, Coimbatore, 12-Sep-19 to 13-Sep-19

5) **Comparative Study on Swarm Intelligence based Ant Colony Optimization(ACO) and Artificial Bee Colony (ABC) Optimization Techniques with reference to Feature Selection** National Conference on Emerging Trends in Computing and Intelligent Informatics, Dr.N.G.P. Institute of Technology, Coimbatore, 08-Mar-19

6) **An Overview of Multimodal Biometrics and its Impact in the Automated Identification of Individuals**, Third International Research Conference on Advances in Computer Science & Information Technology, KG College of Arts and Science, Coimbatore, 15-Sep-18.

7) **Hybrid ABC for Optimal Feature Selection in Palmprint and Palmvein with SVM Parameter Optimization**, International Conference on Research Trends in Computing Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 9-Aug-18 to 10-Aug-18.

8) **A Study on Pattern Recognition of Tumor Images in Medical Image Analysis**, International Conference on Recent Advancements in Information Technology, Science & Engineering, A.P.C. Mahalaxmi College for Women, Thoothukudi, 14-Dec-17 to 15-Dec-17.

9) **A Study on IoT and its Applications in Health Care**, IEEE International Conference on Innovations in Green Energy and Health Care Technologies, Dr.N.G.P. Institute of Technology, Coimbatore, 16-Mar-17 to 18-Mar-17.

10) **Optimized Feature Space Selection for Multi Modal Biometrics using Palmprint and Palmvein**, DRDO Sponsored 2<sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems, Karpagam College of Engineering, Coimbatore, 19-Mar-15 to 20-Mar-15.

11) **Human Physiological and Behavioral Biometric Methods A Survey**, National Conference on Recent Advances in Computer Science & Engineering and Information Technology, Sri Ramakrishna Engineering College, Coimbatore, 20-Apr-12.

12) **Multimodal Biometrics-Survey**, National Conference on Advanced Computing in Computer Applications, Sri Ramakrishna Engineering College, Coimbatore, 24-Mar-12.

13) **Role of Netizen in Prevention of Cyber Crime**, National Conference on Recent Trends in Advanced Computing, KLN college of Information Technology, Sivagangai,10-Apr-08 to11-Apr-08.

14) **Application of MIS in Human Resources Management**, National Conference on Information Technology and Management, P.S.N.A. College of Engineering & Technology, Dindigul, 16-Feb-08.

### **Participation in Conference**

#### *National*

1) **Emerging Education Models for 21<sup>st</sup> Century Learner (NCEEM-2015)**, Principals of Colleges of Bharathiar University, UGC-HRD Center of Bharathiar University, Dr.N.G.P. Arts and Science College, Coimbatore, 1-Aug-15.

### **Participation in Seminars**

1) **Digital Image Processing and its Applications**, Sri Ramakrishna Institute of Technology, Coimbatore, 09 –Apr-13.

2) **Cyber Security**, Bharathiar University, Coimbatore, 9-Mar-13.

### **Participation in Workshop**

1) **Professional Ethics & Plagiarism and Strengthening Research for Quality Publications**, Sankara College of Science and Commerce, Coimbatore, 31-Aug-19

2) **How to Tap Funding Agencies? Publishing Ethics & Plagiarism Tool, Reference Management Tools for Research**, Sankara College of Science and Commerce, Coimbatore, 2-Mar-19

3) **MATLAB for Solving Research Problems**, Dr. N.G.P. Arts and Science College, Coimbatore, 31-Jul-17.

4) **Big Data Analytics**, Sri Ramakrishna Engineering College, Coimbatore, 21-Mar-14.

5) **Image & Video Processing using MATLAB**, Sri Ramakrishna Engineering College, Coimbatore,10 & 11-Oct-13

6) **Web Application Development using PHP and MySQL**, Sri Ramakrishna Engineering College, Coimbatore, 27 & 28-Mar-13.

- 7) **Advanced Open Source Web Technology in PHP**, Sri Ramakrishna Engineering College, Coimbatore, 26-Feb-13.
- 8) **Research and Journal Publication**, Christ the King Engineering College, Coimbatore, 18-Jan-12
- 9) **Intelligent Data Analytics and Image Processing**, Bannari Amman Institute of Technology, 14 & 15-Oct-11.
- 10) **Recent Trends in Biometrics and Cyber Security**, PSG College of Technology, Coimbatore, 24 & 25-Mar-11.
- 11) **MATLAB Programming**, Kongu Engineering College, Perundurai, 20 & 21-Jan-11.
- 12) **Distributed Service Models**, Coimbatore Institute of Technology, Coimbatore, 3 & 4-Sep-10.
- 13) **Networking and Network Simulators**, RVS College of Engineering, Technology, Dindigul, 30 & 31-Mar-07.
- 14) **Emerging Trends in Web Technologies**, P.S.N.A. College of Engineering Technology, Dindigul, 25- Mar-06.

#### **Participation in Faculty Development Programme**

- 1) **Java Programming**, Vellore Institute of Technology, Chennai ,15-May-20 to 16-May-20
- 2) **Moodle Learning Management System**, KLS Vishwanatharao Deshpande Institute of Technology, Karnataka, 04-May-20 to 08-May-20
- 3) **Machine Learning and Artificial Intelligence**, Andhra Loyola Institute of Engineering and Technology,04-May-20 to 06-May-20
- 4) **Moodle Learning Management System**, Sri Ramakrishna College of Arts and Science for Women,04-May-20
- 5) **Machine Learning**, Santhiram Engineering College,Nandyal,02-May-20
- 6) **Cyber Security**, Sri Krishna Adithya College of Arts and Science,Coimbatore,30-Apr-20

- 7) **R Programming**, Sri Krishna Arts and Science College, Coimbatore, 19-Apr-20 to 24-Apr-20
- 8) **Quality Initiatives in Higher Education**, Consortium of Colleges, 13-Apr-20 to 20-Apr-20
- 9) **NAAC Revised Accreditation Framework and OBE Assessment Methodology**, Dr. N.G.P. Arts and Science College, Coimbatore, 27-May-19 to 02-June-19
- 10) **Quality Measures in Higher Education**, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Dec-18 to 9-Dec-18
- 11) **Introduction to R Programming**, ICT Academy, Dr. N.G.P. Arts and Science College, Coimbatore, 30 & 31-Aug-18.
- 12) **Bigdata Analytics - Transitions and Tools**, Dr. G.R. Damodaran College of Science, Coimbatore, 19-Jan-18.
- 13) **Digital Image Processing**, Govt. College of Technology, Coimbatore, 28-Nov-11 to 4-Dec-11.
- 14) **Software Testing**, KGiSL Institute of Information Management, Coimbatore, 18-Aug-07.

#### **Conference / Seminar / Workshop Organized**

- 1) Committee Member, Second International Conference on Research Trends in Computing Technologies (ICRTCT'2020), Dr.N.G.P. Arts and Science College, Coimbatore, 28 & 29-Feb-2020.
- 2) Organizing Secretary, National Level Technical Symposium, Techopedia 2020, Dr.N.G.P. Arts and Science College, Coimbatore, 13-Feb-20
- 3) Committee Member, International Conference on Research Trends in Computing Technologies (ICRTCT'18), Dr.N.G.P. Arts and Science College, Coimbatore, 9 & 10-Aug-18.

#### **Invited Speaker / Session Chair / Member Organizing Committee - Conference / Seminar / Workshop**

- 1) Resource Person, Collaborative and Innovative Teaching Learning Process- Staff Exchange Programme, Vellalar College for Women, Erode, 09-Mar-20
- 2) Invited Speaker, Guest lecture on Open Source Software, Sree Saraswathi Thyagaraja College, 29-Jul-17.

### **Editorial / Review Board Member**

- 1) Editorial Board Member / Reviewer in the “**International Journal for Academic Development in Social Science and Humanities**”.

### **Membership in Professional Bodies**

| <b>Name of the Professional Body</b> | <b>Nature of membership</b> | <b>Duration</b> |
|--------------------------------------|-----------------------------|-----------------|
| Internet Society                     | Life-time                   | -               |