



## **FACULTY PROFILE TEMPLATE**

**Please ensure that this Template is 'Thoroughly Followed/Replicated' in your profile**

- ❖ **Please mention year of passing (Educational Qualifications)**
- ❖ **In case of Updating Existing Faculty profiles, please send the new additions in 'Highlighted Form/Text'.**

### **Basic Details:**

- **Name: Dr. C. Dharuman**
- **Designation: Professor**
- **Phone Number:**
- **Email ID:**
- **Area or Subject: Mathematics**
- **Affiliation: Department of Mathematics, Ramapuram Campus, SRM Institute of Science and Technology**

### **Educational Details:**

- **Degree – M.Sc., M.Phil., Ph.D**
- **Area or Subject – Mathematics**
- **University – Madras University, Chennai**
- **Awarded Year – M.Sc., Mathematics, Madras University, 1976  
M.Phil., Mathematics, Madras University, 1982  
Ph.D. ,2010**

## **Other Details:**

- **Courses: Calculus and Linear Algebra, Calculus and complex Analysis, Transforms and Boundary Value Problems, Probability and Queueing Theory, Probability and Random Process, Probability and Statistics, Operations Research Discrete Mathematics.**

**Research Interests: , Machine learning methods, Fuzzy Mathematics, Neural Networks**

## **Selected Publications:**

- With Leoni Sharmila.S, Venkatesan. P, (2019)." A Comparison of Radial Basis Function and Multilayer Perceptron Network as tool for classification of Medical Data", Journal of Physics: Conference Series,pp:1-6.
- With Leoni Sharmila.S, Venkatesan. P, (2019)." A Fuzzy Based Classification- An Experimental Analysis" , International Journal of Innovative Technology and Exploring Engineering,8(10),pp: 4634-38.
- With Leoni Sharmila.S, Venkatesan. P,(2019)." A Comparative Study of Neural Network and Fuzzy Neural Network for Classification, International Journal of Scientific & Engineering Research,10(1),pp: 1371-78.
- With Poongothai.S and P. Venkatesan, " A Comparative study ofHybrid Evolutionary Based Algorithms with Machine Learning Classifiers for the Prediction of Medical Database", 1377, 2019.
- With Poongothai.S and P. Venkatesan, "A Comparison of Fuzzy Rough sets and Fuzzy Evolutionary Classifiers using Medical Databases," International Journal of Innovative Technology and Exploring Engineering, 8 (10), 2019.
- With Poongothai.S and P. Venkatesan, "Application of Fuzzy Differential Evolutionary Algorithms in Biological Data Mining ," International Journal of Scientific & Engineering Research, 10 (1), 2019.
- With Martin Bohner, , R. Srinivasan and Ethiraju Thandapani, Oscillation Criteria for Third order Nonlinear Functional Difference Equations with Damping, Appl.Math.Inf.Sci.11, No.3, 669-676(2017).
- With R. Srinivasan Oscillation and Property B for Third Order Difference Equations with Advanced Arguments, International Journal of Pure and Applied Mathematics, Volume 113 No. 10 2017, 352-360.
- With N.Sujatha,and K.Trisangu" Triangular Fuzzy Graceful Labeling in Some Path Related Graphs"International Journal of Pure and Applied Mathematics, Volume114, NO.6,2017, 109 -118.
- With K.S.Vidhyaa, "Oscillation Theorems for Third Order Nonlinear Delay Difference Equations", International Journal of Pure and Applied Mathematics (IJPAM), Volume 114 No. 5 2017, 151 – 164.
- With K.S.Vidhyaa, "Asymptotic Behavior of Third Order Delay Difference Equations with Positive and Negative Terms", International Journal of Pure and Applied Mathematics (IJPAM), Volume 113 No. 10 2017, 157 – 165.
- With S.Poongothai, "Fuzzy Evolutionary Computing in Biological Data Mining" Global Journal of Pure and Applied Mathematics (GJPAM) ISSN 0973-1768 Volume 12,Number 1 (2016), © Research India Publications : <http://www.ripublication.com>
- With S.Poongothai, "A Comparison of Fuzzy Genetic and Neuro Genetic Hybrid Algorithm for The Classification of Diabetes Disease", Volume 113 No. 11 2017, 208 -216, ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version).
- With S. Poongothai, "Hybrid Evolutionary based Algorithms for Classification of Biomedical Databases", International Journal of Pure and Applied Mathematics, Volume 114 No. 5 2017, 201 - 209ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version).

- With Leoni Sharmila.S, “A Novel Neuro-Fuzzy System for Classification”, Global Journal of Pure and Applied Mathematics (GJPAM) ISSN 0973-1768 Volume 12,Number 1 (2016), © Research India Publications : <http://www.ripublication.com>
- With Leoni Sharmila.S, “Neuro-Fuzzy System with Evolutionary Computing for Classification”, International Journal of Pure and Applied Mathematics Volume 113 No. 11 2017, 37 – 45, ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version)
- With Leoni Sharmila.S, “Disease Classification Using Machine Learning Algorithms - A Comparative Study”, International Journal of Pure and Applied Mathematics Volume 114 No. 6 2017, 1-10.
- With R. Srinivasan, and E. Thandapani, Oscillatory Behavior of Second order Nonlinear Damped Neutral Difference Equation, Nonlinear Functional Analysis and Applications, Vol.22, No. 4 (2017), pp.811-823.
- With E. Thandapani, Oscillation of Solutions of Non-linear difference Equations with a super linear neutral term, Nonauton. Dyn. Syst. 2018;5:52-58.

#### **Papers Presented:**

**Working Papers:** Machine Learning Based Pattern Recognition for Diabetic Spectral data

**Work in Progress:** Pattern Recognition methods using MCMC and ANN

#### **Academic Experience:**

- Professor, Ramapuram Campus, SRM University, Chennai-89, since July 2012
- Associate Professor and Head of the Department, Pachaiyappa’s College, Chennai from May 2010 to May 2012
- Associate Professor and Head In charge of the Department, Pachaiyappa’s College, Chennai from May 2009 to April 2010
- Associate Professor, Pachaiyappa’s College, Chennai from June 2006 to May 2012
- Lecturer- Selection Grade, Pachaiyappa’s College, Chennai from July 1993 to May 2006
- Lecturer-Senior Scale, Pachaiyappa’s College, Chennai from July 1986 to June 1993
- Assistant Professor, Pachaiyappa’s College, Chennai from December 1981 to June 1986
- Assistant Professor, C. Kandaswami Naidu College for Men, Chennai from September 1980 to November 1981
- Assistant Professor, Pachaiyappa’s College for Men, Kanchipuram from September 1978 to September 1980

**Other Professional Experience:**

- Editorial Board Member, Indian Journal of Innovations and Developments, 2012
- Life Member, Indian Spectro Physics Association (ISPA), Chennai

**Workshops /Seminars/Conferences:**

**Achievements and Awards:**

**Memberships:**

- Member in Indian Science Congress Association (ISCA)

Please send in your latest **PASSPORT SIZE photograph**.



**Some examples of standard faculty profiles from other institutions:**

- <http://isb.edu/faculty/facultydir.aspx?ddlFaculty=246>
- <http://engineering.stanford.edu/research/layout.php?sunetid=cfarhat>
- <http://public.tepper.cmu.edu/facultydirectory/FacultyDirectoryProfile.aspx?id=95>