

## DR.M.PUSHPA RANI – SHORT PROFILE

*Professor & Head  
Department of Computer Science  
Mother Theresa Women's University*

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### Educational Qualifications : MCA, Ph.D

### Academic - Designation and Current Position

- Professor & Head, Department of Computer Science, Mother Teresa Women's University, Kodaikanal.
- Director / Academic Coordinator, Mother Teresa Women's University, Madurai Centre. (September 2013 to September 2016).

### Awards / Honours Received

- **Glory of India** - International Award , Bangkok (October 2016 )
- **Distinguished Women in Science** – International (March 2017)
- **Best Scientist in Computer Science** – International( Dec 2017)
- **Research Innovation Award** - International, Canada(May 2014)
- **Dr. Radhakrishnan award of Excellence** - National (September)2016
- **Rashtriya Gaurav Award** - National (2016)
- **Adarsh Vidya Saraswathi Rashtriya Purashakar** - National (May 2016)
- **Dr. Abdul Kalam Life Time Achievement National Award** (December 2015)
- **Teaching and Research Excellence Award** - National (November 2015)
- **Best Teacher Award** – National (2015)
- **Best paper Awards** in Conferences(2010, 2014, 2015) - 3
- **Best Student Award** (March 1982)

## Research Interests

- Biometrics
  - Gait Analysis, Face & Skull Recognition
  - Signature Analysis, Iris Recognition and
  - Multi Model Systems
- Adaptive Learning System
- Information Retrieval, Image Processing
- Cloud Computing, Network Security

## Research Publications

<b>International Books</b>	<b>– 4</b>
<ul style="list-style-type: none"> <li>● <b>Biometrics – What is What</b></li> <li>● <b>Gait Analysis: Basic Concepts and Techniques</b></li> <li>● <b>1001 FAQs on Competitive Examinations in Computer Science</b></li> <li>● <b>Technology Today and Tomorrow</b></li> </ul>	
<b>Book Chapters</b>	<b>– 90</b>
(Including MacMillan Publishers)	
Papers Published in <b>International Reputed Journals</b>	<b>– 95</b>
Papers Presented in <b>International/National Conferences</b>	<b>– 160</b>
National/International <b>Seminars/Conferences</b> Organized	<b>– 50 +</b>
<b>Resource person</b> in Seminars/Conferences	<b>– 70 +</b>
International/National <b>Conferences Participated</b>	<b>– 200 +</b>

## Responsibilities Held - Corporate Responsibilities

### Academic

- Executive Council Member( Syndicate ) - Mother Teresa Women's University
- Academic Council Member(Senate) - Mother Teresa Women's University
- Co-ordinator for Internal Quality assurance Cell (IQAC) - Mother Teresa University
- Chairperson to Examination Passing board
- Chair person to Board of Studies
- University nominee to Board of Studies for affiliated colleges
- Member of Doctoral Committee
- Member of Staff Selection Committee- Subject Expert
- Board of Studies member & Examiner to other Universities

**Member of**

- Curriculum Development Cell
- Career Counseling Cell
- Entrepreneurship Development Cell
- Staff Selection Committee
- Inviting Renowned Foreign Professors Scheme
- College inspection team
- Sexual Harassment Cell
- Technical Committee member for Funding Schemes

**Co-Curricular Activities****Coordinator for**

- Internal Quality Assurance Cell(IQAC )
- Establishing Smart Class rooms with Video Conferencing facility (Funded by Government of Tamil Nadu)
- Establishing Campus wide LAN and Wi-Fi Connectivity (Funded by MHRD)
- NME-ICT Nodal Officer
- Placement Officer

**Extension Activities****Coordinator for**

- NSS (National Service Scheme)
- Energy Conservation Cell
- Kani Tamil Peravai

**Research / Consultancy Projects Completed**

MNC Consultancy Projects – 5  
UGC Research Projects – 3  
Ongoing Research Projects – 2

**Innovations & Contributions**

- **Designed and Developed Multimedia based E-Content** on various subjects
- **Designed the Architectural frame work** for the Media rich **Adaptive Learning System**
- **Designed the Curriculum for various papers in MCA**
- **Designed and Conducted Add on Courses on Bio-Computing, Multimedia & Animation**
- **Prepared Syllabus based Books for 5 papers at MCA level**
- **Observer for the NEET, UGC(NET) & JEE Entrance Examinations since 2008.**
- **Talk given in All India Radio on “ Mangayarai Pirappatharke “**

### Abroad Visit

- Visited Ryerson University, Toronto, Canada, May 2014
- Resource Person for the IEEE Canadian Conference CCECE 2014

### Memberships in Professional Bodies

- International Association OF Computer Science and Information Technology (IACSIT)
- International Association of Engineers (IAENG)
- International Computer Science Teachers Association (CSTA)

### Editor / Reviewer in International Journals

- Reviewer for the Elsevier International Journal on Neurocomputing (NEUCOM).
- Reviewer for the Elsevier International Journal on Knowledge Engineering, Department of Computing, the Open University, UK.
- Reviewer for the International Journal on Scientific Research and Essays - ISI INDEXED JOURNAL
- Editor & Reviewer for the JM International Journal of Information Technology

### Highlights in brief

- **Perused PhD** from Madurai Kamaraj University in the innovative domain on **Gait Analysis**
- Presently the **Professor and Head in the** Department of Computer Science
- **Director cum Academic Coordinator** for the Research and Extension Centre of the University at Madurai
- **Member of the Executive Council (EC – Syndicate )** of the University
- **Member of Academic Council (AC - Senate)** of the University
- **Co-ordinator of the Internal Quality Assurance Cell(IQAC)**
- **Chair Person of Examination Passing Board**
- **Chair Person of Board of Studies**
- **Written 4 International books**

- Recipient of **Four International Awards**
  - **Glory of India - International Award , Bangkok**
  - **Research Innovation Award – International, Canada**
  - **Best Scientist in Computer Science Award - International**
  - **Distinguished Women in Science - International**
- Recipient of **Six National Awards**
  - **Rashtriya Gaurav National Award**
  - **Dr. Radhakrishnan award of Excellence - National Award**
  - **Dr. Abdul Kalam Life Time Achievement - National Award**
  - **Adarsh Vidya Saraswathi Rashtriya Purashakar - National Award**
  - **Teaching and Research Excellence Award - National Award**
  - **Best Teacher Award - National Award**
- Recipient of **3 best paper Awards** in Conferences(2010, 2014, 2015) - 3
- **Contributed book chapters** in Macmillan Publishers based books like **Innovations and Advances in Communications, Information and Network Security**
- **Written 5 books** including Digital Image Processing, Operating Systems, System Software, Numerical analysis and Programming in C at PG level for University Syllabus.
- **Designed and Developed multimedia based E-content** on various subjects for Undergraduate level courses.
- **Designed the Architectural frame work** for the Media rich **Adaptive Learning System**
- **Co-ordinator and Nodal Officer** for Establishing **ICT based Govt Schemes like Smart Class rooms, NME-ICT LAN Connectivity, Wi-Fi Connectivity etc.**
- **Served as NSS Co-ordinator**
- **Served as Energy Conservation Cell Co-ordinator**
- **Observer for the AIPMT[ NEET ], JEE Entrance Examinations since 2008.**
- **Convenor & Examiner for conducting Ph.D Viva – Voce Examinations** for various Universities.
- **Invited Speaker in the IEEE Canadian Conference** on Electrical and Computer Engineering CCECE 2014 at **Ryerson University Toronto, Canada.**
- **Women empowerment talk given in All India Radio on “ Mangayarai Pirappatharke**

- **Honoured** as Chief Guest in many International/National Conferences, Symposiums and Technical meets.
- **Published 95 research articles** in globally accredited technical journals with high impact factor.
- **Contributed 90 Book Chapters** in various Books including **Macmillan Publishers**
- **Presented 160 technical papers** in international and National conferences in areas including GAIT Analysis, Biometrics, Image Processing, Network Security, Cloud Computing and Adaptive learning systems.
- **Presided and delivered Key Note addresses** and contributed as resource person in more than **60** International/National Conferences/ seminars, workshops and shindigs.
- **Organized over 50** seminars / workshops for faculty and students on wide areas including Image Processing, Bioinformatics, Career Guidance & Personality development and Quality Research.
- **Participated by selection**, over 20 UGC/CEC sponsored special training programmes, including high performance Computing, Computer Applications and Adaptive Learning Systems.
- **Participated by selection and served as Panel member**, in various technical workshops and shindigs organized by reputed industries like **Microsoft Research & TCS** as a special invitee.
- **Participated over 200** International/ National Conferences
- **Research guidance** given for nearly **45** Mphil Dissertations
- Given **technical guidance** for more than **450** PG projects
- **Guiding** 8 Ph.D and 3 M.Phil Scholars currently
- Member in various **International Professional bodies**
- **Eminent speaker** on Motivation, Leadership and Personality development Programmes