

**Name** : Dr. M. Savithri  
**Designation** : Associate Professor  
**Department** : Computer Science  
**Qualification** : M.Com., M.C.A., M. Phil., Ph. D.



**Experience:**

Teaching: 15 Years 6 Months      Industry: Nil      Research: 10 Years

**Area of Specialization(s)** : Computer Networks, Mobile Ad-hoc Network

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

**Academic Qualifications**

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Science	Bharathiar University, Coimbatore	2020
M.Phil.	Computer Science	Mother Terasa Womens University, Kodaikanal	2007
M.C.A.	Computer Applications	Bharathiar University, Coimbatore	2004
M. Com.	Commerce	Bharathiar University, Coimbatore	2017
B. Com.	Computer Applications	Annamalai University	1998

**Additional Qualifications**

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Online Certification	Data Mining	NPTEL	2022
Online Certification	Big Data Computing	NPTEL	2021
Online Certification	Python for Data Science	NPTEL	2019
Online Certification	Stress Management	NPTEL	2018
Online Certification	Introduction to R Software	NPTEL	2017
Online Certification	Putting Social Media to Work for Your Coaching Business	Udemy	2016
Online Certification	Getting Started with Google Analytics	Udemy	2015
Online Certification	Big Data Fundamentals	Big Data University	2015
Certification	Cloud Infrastructure and Services	EMC Academic Associate	2014
Certification	.NET Programming	ICT Academy, Tamil Nadu	2010

Certification	Apparel Merchandising and Quality Control	NIFT-TEA Knitwear Fashion Institute	2005
Technical	Typewriting Tamil Junior Grade	Department of Technical Education	1996
Technical	Typewriting English Senior Grade	Department of Technical Education	1995

### Patent Published

Title of the Patent	Agency	Status	Date
Artificial Intelligence and Natural Language Programming Based Detection of Lung Infection	Intellectual Property India	Published	10-Dec-2021

### Project Completed

Project Title	Agency	Amount	Duration
IoT Based Automatic Attendance Management System	Seed Money Received from Host Institution	5,000	2021-22
Human Resource Management in IT Company	Seed Money Received from Host Institution	5,000	2016-17

### Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
M. Phil.	6	-

### Research Publications (Indexed)

#### *International*

- 1) A. Nirmala, C.Kumuthini, M.Savithri, **Applications of IoT in Agriculture**, International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Volume 7, Issue 2, 2021, pp.105-107, ISSN: 2456:3307 (Indexed in UGC).

- 2) K. Thenmozhi, A. Nirmala, M. Savithri, **Block Chain Technology to Revolutionize the Supply Chain Industry and its Challenges**, Journal of Information and Computational Science, Volume 10, Issue 7, 2020, pp. 217 - 223, ISSN: 1548-7741 (Indexed in UGC).
- 3) Saranya.C, Savithri.M, **LPG Gas Leakage Detection And Monitoring System Using IoT**, International Journal of Scientific Research in Engineering and Management, Volume 4 , Issue 03, pp, 1-5, March 2020, ISSN: 2582-3930 (Indexed in UGC).
- 4) A. Nirmala, M. Savithri, K. Thenmozhi, **Image Quality Metrics for Brain Image Segmentation**, Journal of Emerging Technologies and Innovative Research, Volume 7, Issue 1, pp. 279-281, 2020, ISSN: 2349-5162, (Indexed in UGC).
- 5) Mercy, M. Savithri, **Cloud Data Security With Mixed Algorithms**, IOSR Journal of Engineering, Vol. No. 4 Special Issue, ICCIDS 2018, pp. 81-84, 2018, ISSN: 2250-3021, (Indexed in UGC).
- 6) M. Savithri, A. Mercy, **Survey on Security Issues and Challenges in Cloud Computing**, International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Vol. 3 No. 2, pp. 195-201, February 2018, ISSN: 2456-3307, (Indexed in UGC).
- 7) M.Savithri, M. Rajesh Babu, **Energy based Efficient Authenticated Routing Protocol for Manets for DDOS Attacks with Minimized Power Consumption**, International Journal of Networking and Virtual Organizations , Vol. 19 No.2/3/4, pp. 289-304, 2018, ISSN (Online): 1741-5225, ISSN(Print): 1470-9503, (Indexed in SCOPUS).
- 8) M.Savithri & M. Rajesh Babu, **A Survey on Routing Study of Difference Ad-Hoc Routing Protocols based on Qualitative Parameters**, International Journal of Applied Engineering Research, Vol.10 No.20, pp. 20198-20203, ISSN: 0973-4562, (Indexed in UGC/ SCOPUS).
- 9) M. Savithri & C. Arun, **Energy Efficient Zone based Routing Protocol for Power Heterogeneous Manets**, International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 5, No. 10, pp.507-511, October 2015, ISSN:227 128X, (Indexed in UGC).
- 10) M. Savithri & C. Arun, **Survey On Speed Issues In Mobile Computing**, International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 5, No. 1, pp.435-438, January 2015,ISSN:227 128X, (Indexed in UGC).
- 11) R. Amutha & M. Savithri, **A Study on Data Mining in Telecommunication Industry**, International Journal of Scientific Research in Computer Science Applications and Management Studies, Vol.3, No. 3, May 2014, ISSN : 2319 – 1953, (Indexed in UGC).

## Other Publications: International / National Journals

- 1) Gowri.R, M. Savithri, **Compactness Based Traffic Signal Monitoring System**, International Research Journal Of Engineering And Technology, Volume 7, Issue , pp. 402-05, March 2020, ISSN: 2395-0072 .
- 2) Shobana. V, Maheshwari. S & Savithri. M, **Study on Bigdata with Data Mining**, International Journal of Advanced Research in Computer and Communication Engineering, Vol. 4, No. 4, pp.381-383, April 2015, ISSN (Online): 2278-1021, ISSN (Print): 2319-5940, (Indexed in Google Scholar/ NAAS Science Journal).
- 3) Shobana. V, Maheshwari. S & Savithri. M, **Social Networking Merits And Demerits Review**, International Journal of Engineering and Management Research, Vol. 5, No. 5, pp.65-68, October 2015, ISSN (ONLINE): 2250-0758, ISSN (PRINT): 2394-6962, (Indexed in Google Scholar).
- 4) M. Savithri & C. Arun, **Concise of Mobile Adhoc Network**, Indo Global Journal of Applied Engineering, Vol 3, No. 1, pp. 28-30, May 2015, ISSN :2321-5267, (Indexed in Google Scholar).
- 5) R. Amutha & M. Savithri, **Diagnosis and Prognosis of Breast Cancer using Data Mining Techniques**, Paripex-Indian Journal of Research, Vol. 4, No. 3, pp.6-8, March 2015, ISSN:2250-1991, (Indexed in Google Scholar).
- 6) R. Amutha & M. Savithri, **A Study on Intrusion Detection in Mobile Ad Hoc Networks**, International Journal of Computer Science and Information Technologies, Vol. 6, No. 1, pp.682-684, 2015, ISSN: 0975 9646, (Indexed in Google Scholar).
- 7) M. Savithri, **A Review on Types of Attacks in Mobile Ad-Hoc Networks**, International Journal of Research Issues in Computing Sciences, Vol. 1, No. 1, August 2013.
- 8) M. Savithri & P. DharaniSelvi, **Detection of Clone Misbehavior using Cross Layer AODV**, International Journal of Advanced Research in Computer and Communication Engineering, Vol. 2, No. 3, pp. 1478-1480, March 2013, ISSN (Print): 2319-5940 ISSN(Online): 2278-1021, (Indexed in Google Scholar/NAAS Science Journal).

## Chapters Publications

- 1) M. Savithri, **IoT, AI and Machine Learning**, chapter publication, COVID-19 and Its Impact, 30<sup>th</sup> January, 2021, ESN Publications, ISBN : 978-81-950423-5-7

## Presentations in Conference

- 1) **An Overview on Blockchain Technology Its Application and Future Trends**, Two day International Conference on Digital Information Security & Computing Technologies in Collaboration with Lincoln University, Malaysia, Sankara College of Science and Commerce, 08-Apr-22 to 09-Apr-22.
- 2) **Compactness Based Traffic Signal Monitoring System**, National Conference on Machine Learning And Smart Technology, Sri Krishna Arts And Science College, Coimbatore, 12-Feb-20.
- 3) **Study on Suicide Attempts in India**, International Conference on Multidisciplinary Academic Research and Global Innovations, KG Arts and Science College, Coimbatore.
- 4) **Comparison of Image Quality Metrics**, National Conference on Recent Trends and Advances in the Field of Information Technology, Karpagam Academy of Higher Education, Coimbatore, 27-Sep-19.
- 5) **Security Threads And Legal Issues Related To Cloud Based Solutions: A Study**, National Conference On Emerging Trends In Mathematics With Computer Applications, Dr. N.G.P. Arts and Science College, Coimbatore, 12 & 13-Sep-19.
- 6) **Cloud Data Security with Hybrid Algorithm**, International Conference on Computational Intelligence and Data Science, Sankara College of Science and Commerce, Coimbatore, 10-Oct-18.
- 7) **Cloud Data Security**, International Conference on Research Trends in Computing Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 9& 10-Aug-18.
- 8) **A Study on Internet of Things and its Applications in Healthcare**, International Conference on Innovations in Green Energy and Health Care Technology, Dr. N.G.P. Institute of Technology, Coimbatore, 16 TO 18-Mar-17.
- 9) **Power Aware and Energy Efficient Routing Protocol for Wireless Sensor Networks**, National Conference on Cognitive Science Research in Computer Science and Management, Coimbatore Institute of Management and Technology, Coimbatore, 16-Sep-16.
- 10) **Overview of Mobile Computing**, National Conference on Information and Image Processing, Sankara College of Science and Commerce, Coimbatore, 27-Feb-15.
- 11) **Concise of Mobile Ad-Hoc Networking**, International Conference on Competency Building Strategies in Business and Technology for Sustainable Development, Sri Ganesh School of Business Management, Salem, 20-Feb-15.

- 12) **Overview of Information Security**, PSGR Krishnammal College for Women, Coimbatore, 29-Jan-15.
- 13) **Social Networking-Merits and Demerits: A Review**, National Conference on Innovative Trends in Information Technology, KG College of Arts and Science, Coimbatore, 7-Feb-15.
- 14) **Intrusion Detection in Mobile Ad-Hoc Network**, UGC Sponsored National Conference on Cyber Security, PSGR Krishnammal College for Women, Coimbatore, 9 to 10-Jan-14.
- 15) **Security Attack in Mobile Adhoc Network**, National Conference on Innovations in Communicative world, Dr. N.G.P. Arts and Science College, Coimbatore, 27-Sep-12.
- 16) **A Survey on Types of Attacks in Mobile Adhoc Network**, UGC Sponsored National Conference on Web Science and Technology in Association with ICTACT, PSG College of Arts and Science, Coimbatore, 10 to 11-Oct-12.
- 17) **Wireless Fidelity (Wi-Fi)**, National Seminar on Crystallizing Trends in IT, Sankara College of Science and Commerce, 15-Feb-12.
- 18) **The Role of Computers in Teaching-Learning Process**, IQAC Sponsored State Level Conference on Achieving Academic Excellence Through Internal Quality Assurance Cell, Dr. N.G.P. Arts and Science College, Coimbatore, 9 to 10-Dec-11.
- 19) **WaterMarking Techniques on FingerPrint**, National Conference on Multimedia Signal Processing and Networking, Dr. N.G.P. Institute of Technology, 30-Oct-10.
- 20) **Cloud Computing**, National Conference of Futuristic and Advance Computing Technologies, Loyola College, Chennai, 26 to 27-Feb-10.

### **Participation in Conference**

#### ***International***

- 1) Computer Communication and Information Technology, Dr. N.G.P. Arts and Science College, Coimbatore, 28-Sep-16.

### **Participation in Seminars**

- 1) **Sustainable Environment for Development of Crop returns in the Field of Agriculture Using IoT**, one day National Level Seminar, Dr. N.G.P. Institute of Technology, 17-Mar-22.

- 2) **Data Science for Cyber Security, Recommendation System and Healthcare**, Maharishi Markandeshwar Engineering College (MMEC), 11-Sep-21.
- 3) **Role of NAAC in Enhancing Quality in Higher Educational Institutions**, NAAC Sponsored A Two Day National Level Seminar, Sri Vidya Mandir Arts & Science College (Autonomous), 07-Sep-21 to 08-Sep-21.
- 4) **Tableau for Data Visualization**, Nandha Engineering College, 17-Jul-20.
- 5) **Challenges and Opportunities in Startup and Innovation**, Mahendra Institute of Technology, 14-Jul-20.
- 6) **Leading in VUCA World**, ICT Academy, 20-Apr-20 to 24-Apr-20.
- 7) **Quality Enhancement in Higher Education**, Internal Quality Assurance Cell, Sankara College of Science and Commerce, Coimbatore, 7-Jan-17.
- 8) **Research Methodology**, Asan College of Arts and Science, Karur, 5-Oct-16.
- 9) **Tools and Techniques to do a Research and to Improve Scholarly Writing Skills**, Department of Computer Science, Karpagam University, Coimbatore, 30-July-16.
- 10) **Cyber Security Awareness and Defense Techniques**, Dr. N.G.P. Arts and Science College, Coimbatore, 25-Aug-14.
- 11) **Big Data Storage and Analytics**, Dr. N.G.P. Institute of Technology, Coimbatore 27-Dec-13.
- 12) **Embedded Computing Systems**, Dr. N.G.P. Institute of Technology, Coimbatore, 30-Jan-13.
- 13) **Research Issues in Computer Science**, Vellalar College for Women, Erode, 8-Feb-12.

#### **Participation in Workshop**

- 1) **NPTEL E-Awareness Workshop**, NPTEL, 06-Jan-22
- 2) **Professional Ethics & Plagiarism and Strengthening Research For Quality Publications**, Sankara College of Science and Commerce, Coimbatore, 31-Aug-19.
- 3) **How To Tap Funding Agencies? Publishing Ethics & Plagiarism Tool & Reference Management Tools For Research**, Sankara College of Science and Commerce, Coimbatore, 2-Mar-19.

- 4) **Hands on Training on LaTeX Documentation Tool**, Sri Ramakrishna Engineering College, Coimbatore, 7& 8-Sep-18.
- 5) **Innovative Research in Pedagogy for Mini-Moocs Blended with Instruction Strategies to Enhance Quality of Higher Education**, Amirta University, Coimbatore, 23& 24-Sep-17.
- 6) **Applications of Statistical Tools Using R-Language – A Hands On Training**, Department of Mathematics, Dr. N.G.P. Arts and Science College, Coimbatore, 23& 24-Sep-16.
- 7) **Science Academies' Lecture Workshop on Internet of Things: A Research Perspective for Smart Environment**, School of Information Technology and Science, Dr. G.R. Damodaran College of Science, Coimbatore, 15& 16-Apr-16.
- 8) **Network Simulator QUALNET 4.5 & Network Emulator EXATA**, Chettinad College of Engineering and Technology, Karur, 3& 4-Mar-14.
- 9) **Data Mining & its Application using Rapid Miner**, Dr. N.G.P. Arts and Science College, Coimbatore, 28-Dec-13.
- 10) **Enhance Teaching Skills - Mission 10x**, Wipro, Dr. N.G.P. Arts and Science College, Coimbatore, 6 to 8-Sep-13.
- 11) **Arts of Research**, PSG College of Technology, Coimbatore, 24-Aug-13.
- 12) **Socket Programming and Network Simulation Using NS2**, RMK Engineering College, Kavaraipettai, 14-Dec-12.
- 13) **Research Paradigms in Networking and Communications**, SVS Institute of Computer Application, Coimbatore, 30 to 31-Mar-12.
- 14) **Ethical Hacking**, Government College of Technology, Coimbatore, 29-Feb-12.
- 15) **.NET**, Microsoft IT Hyderabad, Dr. N.G.P. Institute of Technology, Coimbatore, 23-Sep-11.

#### **Participation in Orientation Programme / Short Term Courses**

- 1) **How to do Research in Computer Science**, Hindustan College of Arts and Science, Coimbatore, 21-Jan -15.
- 2) **Learnbharathi-Faculty Orientation Programme**, TCS iON, Hindusthan College of Arts and Science, Coimbatore, 22-Aug-14.



## Participation in Faculty Development Programme

- 1) **Data Mining**, NPTEL – AICTE, Feb – Apr 2022
- 2) **Next Generation Computing: Key Trends, Challenges and Opportunities**, SRM Institute of Science and Technology, Ramapuram Campus, 18-Apr-2022 to 23-04-2022
- 3) **Big Data Computing**, NPTEL - AICTE, Aug - Oct 2021
- 4) **Cybersecurity Essentials (Online FDP)**, ICT Academy, 23-Aug-21 to 27-Aug-21.
- 5) **Research Methodology and Pedagogy for Tertiary Education**, Dr. N.G.P. Arts and Science College, 15-Jun-21 to 21-Jun-21.
- 6) **Digital Teaching Techniques**, Online Certification Course, ICT Academy, 03-Aug-20 to 08-Aug-20.
- 7) **Spoken Tutorial Free Open Source Software (FOSS)**, Dr. N.G.P. Arts and Science College and Spoken Tutorial, IIT Bombay National Mission on Education Through ICT MHRD, Govt. of India, 04-May-20 to 10-May-20.
- 8) **Machine Learning and Artificial Intelligence**, Andhra Loyola Institute of Engineering & Technology, Andhra Pradesh, 04-May-20 to 06-May-20.
- 9) **Quality Initiatives in Higher Education**, Consortium of Colleges through Online (Google Meet), 13-Apr-20 to 20-Apr-20.
- 10) **Introduction to Angular JS**, Sankara College of Science and Commerce, Coimbatore, 23-Jul-19 to 25-Jul-19.
- 11) **NAAC Revised Accreditation Frame Work And OBE Assessment Methodology**, Dr. N.G.P. Arts and Science College, Coimbatore, 27-May-2019 to 02-Jun-19.
- 12) **Quality Measures in Higher Education**, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Dec-18 to 9-Dec-18.
- 13) **Stress Management**, NPTEL - AICTE, Aug - Sep 2018.
- 14) **Pedagogy for Online and Blended Teaching-Learning Process**, Online and Aview Interaction (AICTE Approved), Indian Institute of Technology, Bombay, 14-Sep-17 to 12-Oct-17.
- 15) **Foundation Program in ICT for Education**, Online and Aview Interaction (AICTE Approved), Indian Institute of Technology, Bombay, 3-Aug-17 to 13-Sep-17.
- 16) **Internet of Things (IoT)**, Bharathiar University, Coimbatore, 10 to 11-Jul-17.

- 17) **Faculty Development Programme**, Bioinformatics in Life Science & Research, PSGR Krishnammal College for Women, 09-Feb-17 to 10-Feb-17.
- 18) **Faculty Development Programme**, Kongunadu Arts and Science College, Coimbatore, 27-Sep-14.
- 19) **Cloud Infrastructure & Services**, ICT Academy of Tamil Nadu, Avinashilingam University-Faculty of Engineering, Coimbatore, 28-Apr-14 to 3-May-14.
- 20) **Intelligent Software Agents for Knowledge Engineering**, IEEE Madras Section, Karunya University, Coimbatore, 24 to 25-Apr-09.

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

- 1) Organizing Committee Member, Second International Conference on Research Trends in Computing Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 28 & 29-Feb-20.
- 2) Organizing Committee Member, Two Day National Conference on Emerging Trends in Mathematics with Computer Applications, Dr. N.G.P. Arts and Science College, Coimbatore, 12 & 13-Sep-19.
- 3) Treasurer, FDP on NAAC Revised Accreditation Framework and OBE Assessment Methodology, Dr. N.G.P. Arts and Science College, Coimbatore, 27-May-18 to 2-Jun-18.
- 4) Treasurer, FDP on Quality Measures in Higher Education, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Dec-18 to 9-Dec-18.
- 5) Editorial Team Member, International Conference on Research Trends in Computing Technology, Dr. N.G.P. Arts and Science College, Coimbatore, 9 & 10-Aug-18.
- 6) Committee Member, National Conference on Innovations in Communicative World, Dr. N.G.P. Arts and Science College, Coimbatore, 27-Sep-12.

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

- 1) Resource person, Five days faculty development programme on “**ICT Tools in Teaching and Learning**” on the topic “**Effective and Enjoyable Teaching Learning Process**”, KG College of Arts and Science, Coimbatore on 24-May-21.
- 2) Resource person, Collaborative And Innovative Teaching Process – **Staff Exchange Programme**, Vellalar College For Women, Erode, 10-Mar-20 to 12-Mar-20.

- 3) Resource person, Interdisciplinary & Intradepartmental Workshop on **Biostatistics-Solving Through Excel**, Department of Biochemistry, Dr. N.G.P. Arts and Science College, Coimbatore, 27-Aug-19.

#### **Membership in Professional Bodies**

<b>Name of the Professional Body</b>	<b>Nature of membership</b>	<b>Duration</b>
Internet Society	Life-time	-
Science and Engineering Institute	Life-time	-
International Association of Engineers	Life-time	-
Society of Digital Information and Wireless Communication	Life-time	-

#### **Awards / Honors**

<b>Awards / Honors</b>	<b>Agency / Institute</b>	<b>Year of Award</b>
Top Performing Mentor	NPTEL	2019
Maximum Authors Contributing For A Book on COVID 19 And Its Impact	ESN Publication	2021