Name: Dr. M. Rathi

Designation: Assistant Professor (SG)

Department:Computer Technology

Qualification: M.C.A., M. Phil., SET, Ph. D.

Experience: Teaching:14 years 10 months Research: 5.5 years

Area of Specialization(s): Data Mining, Information Security, Data Structures and Algorithms

Email (Official ID):rathi@drngpasc.ac.in

Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Science	Hindusthan College of Arts and Science, Coimbatore, Bharathiar University, Coimbatore	2021
M.Phil.	Computer Science	PSG College of Arts and Science, Coimbatore	2005
M.C.A	Computer Applications	Government Arts College, Coimbatore	2003
B. Sc	Computer Science & Applications	Avinashilingam College of Higher Education for Women, Coimbatore.	2000

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
SET	Computer Science	UGC	2018
Certification	Computer Science	IIT Kharagpur, NPTEL (Programming in C++)	2017
Certification	Computer Science	IIT Kharagpur, NPTEL (Data Mining)	2019
Online Certificate	Computer Science	Spoken Tutorial (JAVA)	2020

Research Publications (Indexed)

International:



- 1. Rathi, M., & Narasimhan, B. "DATA MINING, SOFT COMPUTING, MACHINE LEARNING AND BIO-INSPIRED COMPUTING FOR HEART DISEASE CLASSIFICATION/PREDICTION-A REVIEW", *International Journal of Advanced Research in Computer Science and Software Engineering*, 7(4), 2017, pp. 7-10, Apr 2017, ISSN: 2277 128X. (Indexed in Google Scholar)
- 2. M.Rathi and A.V. Senthil Kumar, "BIOMETRIC AUTHENTICATION TECHNIQUES A REVIEW," International Journal of Scientific Research in Computer Science Applications and Management Studies, vol. 7, no. 5, Sep 2018, ISSN 2319 1953 (Indexed in UGC)
- 3. A.V. Senthil Kumar and M. Rathi, "KEYSTROKE DYNAMICS A BEHAVIORAL BIOMETRIC MODEL FOR USER AUTHENTICATION IN ONLINE EXAMS," in *Biometric Authentication in Online Learning Environments*, IGI Global, 2019, pp. 183-207, DOI: 10.4018/978-1-5225-7724-9.ch008.(Indexed in Google Scholar)
- 4. M. Rathi, Dr. A. V. Senthil Kumar, "EXPLORATION OF KEYSTROKE DYNAMICS BASED AUTHENTICATION ON FIXED-TEXT AND ON FREE-TEXT", International Journal of Computer Sciences and Engineering, Vol.7, Issue.1, pp.807-812, Jan 2019. (Indexed in UGC)
- 5.M. Rathi, A. V. Senthil Kumar , "EULER MOVEMENT FIREFLY ALGORITHM AND FUZZY KERNEL SUPPORT VECTOR MACHINE CLASSIFIER FOR KEYSTROKE AUTHENTICATION", International Journal of Innovative Technology and Exploring Engineering (IJITEE)", Vol. 8, Issue 11, September 2019, pp. 2267-2274. (Indexed in Scopus)
- 6. M. Rathi, A. V. Senthil Kumar , Ismail Musirin, "ADAPTIVE FUZZY CHAOTIC GENETIC CLUSTERING BASED CONTINUOUS KEYSTROKE AUTHENTICATION", International Journal of Scientific & Technology Research, Volume 9, Issue 02, February 2020, pp. 6303-6308. (Indexed in Scopus)

Other Publications: International / National Journals

- M. Rathi, A. V. Senthil Kumar, Adnan Alrabea, Abdelmalek Amine. (2020). "A
 UNIFIED NEUTROSOPHICAL IDENTIFICATION OF AUTHENTICATED USERS WITH
 CONTINUOUS KEYSTROKE DYNAMICS", International Journal of Advanced Science
 and Technology, 29(3), pp. 14394-14406
- 2. M. Rathi, A. V. Senthil Kumar, "A STUDY ON DEEP LEARNING APPROACH TO CONTINUOUS KEYSTROKE DYNAMIC AUTHENTICATION", Proceedings of the International conference on signals, communication and embedded systems, Oct 2020, pp. 238-241
- 3. M. Rathi, A. V. Senthil Kumar, Amit Dutta, "BUTTERFLY ALGORITHM BOOSTED DEEP RANDOM VECTOR FUNCTIONAL LINK NETWORK FOR KEYSTROKE DYNAMICS", Proceedings of the International Conference on Soft Computing for Security Applications (ICSCS 2021), June 2021.

Presentations in Conference

A STUDY ON BIOMETRIC AUTHENTICATION TECHNIQUES - APPLICATIONS, CHALLENGES. International Conference Recent Trends Computing on Technologies (ICRTCT '18), P.K.R. Arts College for Women (Autonomous), Gobichettipalayam, Aug 16, 2018.

A SURVEY ON GROWTH OF E-COMMERCE BUSINESS IN INDIA, National Conference on Emerging Trends in Mathematics with Computer Applications (ETMCA-19), Dr. NGP College of Arts and Science (Autonomous), Coimbatore, Sep 12-13 2019.

MACHINE LEARNING IN HEALTHCARE, Intl Conf. on Research Trends in Computing Technologies (ICRTCT'20), Dr. NGP College of Arts and Science (Autonomous), Coimbatore, Feb 28-29 2020.

BUTTERFLY ALGORITHM BOOSTED DEEP RANDOM VECTOR FUNCTIONAL LINK NETWORK FOR KEYSTROKE DYNAMICS, International Conference on Soft Computing for Security Applications, Dhirajlal College of Technology, Salem, 10-11 June 2021.

Participation in Conference

International:

- International Conference on Soft computing for security applications, Dhirajlal College of Technology, Salem, 10-11 June 2021.
- International Conference on Research Trends in Computing Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 9th and 10th Aug 2018.
- International Conference on Research Trends in Computing Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 28th and 29th Feb 2020.

Participation in Workshop

- NPTEL E-awareness workshop, NPTEL, 6th Jan 2022.
- Research article writing and publishing with citation, PSGR Krishnammal college for women,
 15.12.2021
- **Zero Coding: Data Analytics and Machine Learning for IoT Automation**, Vellore Institute of Technology, 21st June to 25th June 2021.
- National workshop on Big Data Analytics in Clinical Research, Dr. NGP Arts and Science College, Coimbatore, 18th and 19th Mar 2021.
- Role of IoT in cloud computing in Hindusthan College of arts and science,
 Coimbatore, Aug 2019
- MATLAB for solving research problems, Dr. NGP arts and Science college,
 Coimbatore, 31st July 2017
- National Workshop on Statistical analysis using R, Bharathiar university, 6th and 7th
 September 2018.
- Infosys Campus Connect Train the Trainer Workshop in Erode SenguntharEngg. College, Erode, 23.1.12 to 25.1.12

Participation in Orientation Programme / Short Term Courses

Participation in Faculty Development Programme

- **Awareness talk on IPR,** SHASUN Jain college for women, 24th Jan 2022.
- Intellectual property management strategies for start-ups, TNSCST, 12th Jan 2022
- Introduction to Mutual Fund, Dr.NGP Arts and Science College, 27.12.2021.
- Research Methodology and Pedagogy for Tertiary Education, Dr. NGP Arts and Science College, 15th June to 21st June 2021.
- Research and Application perspectives of Artificial Intelligence, KPR Institute of Engg. And Tech. and Saraswathi Thyagaraja College, 16thJune to 21st June 2021.
- Impact of Education Post Covid 19, Sri Ramakrishna College of Arts and Science, 11th May to 16th May 2020.
- Free Open Source Software, Dr. NGP Arts and Science college, 4th May to 10th May 2020.
- **Digital Teaching techniques**, ICT Academy, Aug 3rd to Aug 8 2020.
- **Digital Marketing**, ICT Academy, 15th June to 20th June 2020.
- Quality initiatives in Higher Education, Dr. NGP Arts and Science College, Coimbatore, Apr 13-20, 2020.
- Fundamentals of Artificial Intelligence in Dr. NGP Institute of Technology, Coimbatore,
 Mar 12-14 2020.
- **Teaching Learning Enhancement**, Nov 2019, Dr. N.G.P. Arts and Science College, Coimbatore
- Naac Revised Accreditation Framework and OBE Assessment Methodology, Dr. N.G.P. Arts and Science College, Coimbatore, May 27-June 2 2019
- Quality Initiatives in Higher Education, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Dec-18 to 9-Dec-18.
- Data Mining Techniques and Tools Research Perspective in Coimbatore Institute of Technology, Coimbatore, 11.11.13 to 17.11.13
- Research issues of Data Mining in real world in Tamilnadu College of Engg., Coimbatore on 4.1.12
- 'Research Promotion Programme' in Coimbatore Institute of Technology, Coimbatore, 8.1.10 to 9.1.10

Conference / Seminar / Workshop Organized

- Organized department association activities likeAlumni interaction, guest lectures on augmented reality, Intra department competition, Interdepartment competition.
- Organized webinar on 'Industrial IoT', organized by Department of Computer Technology, 10th June 2021, Dr.NGP Arts and Science College, Coimbatore
- Organized webinar on 'Be the Best version of yourself', organized by Department of Computer Technology, 9th June 2021, Dr.NGP Arts and Science College, Coimbatore
- Finance Committee Coordinator, National workshop on Big Data Analytics in Clinical Research, 18th and 19th Mar 2021, Dr. NGP Arts and Science College
- Organizing Secretary, Cybertron 2020, National level Technical Symposium organized by Dept. of Computer Technology, Mar 5 2020, Dr.NGP Arts and Science College, Coimbatore.
- Food Committee Coordinator, International Conference on Research Trends in Computing Technologies, organized by Faculty of Computer Science, Feb 28-29 2020, Dr.NGP Arts and Science College, Coimbatore
- Technical Committee Coordinator, National Conference on Emerging Trends in Mathematics and Computer Applications, organized by Departments of Mathematics, Computer Science and Computer Technology, Sep 2019, Dr.NGP Arts and Science College, Coimbatore
- Finance Committee Coordinator, DBT sponsored National workshop on data analytics and its applications in Biotechnology,organized by Departments of Computer Technology and Biotechnology, Dr.NGP Arts and Science College, Coimbatore
- Convener for Guest Refreshment Committee, International Conference on Computer Communication and Informatics, Sri Shakthi Institute of Engg. and Tech, Coimbatore, Jan 2014.
- Convener for Symposium organized by Dept. of MCA, Sri Shakthi Institute of Engg. and Tech, Coimbatore, 2013, 2014.
- Committee Member for FDP organized by Dept. of MCA, Sri Shakthi Institute of Engg. and Tech, Coimbatore, 19.2.2010.
- Convener for Workshop organized by Dept. of MCA, Sri Shakthi Institute of Engg. and Tech, Coimbatore, 19.2.15 to 21.2.15, 10.12. 13 to 12.12.13

Recognition National / International

Nature of Recognition	Organization / Institution	Year

National – Infosys Campus Connect Trainer	Infosys	2011