DR.M.SENTHILKUMAR

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E-Mail : p.m.senthilkumar@gmail.com
Location : Dindigul, Tamilnadu

PROFESSIONAL SUMMARY

A committed senior lecturer with more than *20 years* of experience of teaching students from various social and cultural backgrounds at leading academic institutions. *13 years* of teaching and mentoring experience in the *Sultanate of Oman* with effective teaching methods. Possessing excellent administrative, verbal communication and written skills that support a stimulating learning environment. Ability to work in a managerial role or as part of a team to successfully work to tight schedules and deadlines.

EXPERIENCE CHRONICLE

2022 to till now

Head of the Department in BCA
GTN Arts College, Dindigul
- Discipline Committee Coordinator
- Placement Cell Member

2008 to 2021

Lecturer in Information Technology
University of Technology and Applied Sciences, Ibra, Sultanate of Oman
- Learning Resources Committee Coordinator
- Examination Committee Member
- Quality Audit Member

2005 to 2008

Lecturer in Computer Science
T.S. Narayanaswamy College of Arts and Science, Chennai
- Project Coordinator
- Placement Cell Member

2004 to 2005

Lecturer in Computer Science
Sri Muthukumaran Arts and Science College, Chennai
- College Council Member
- Sports Coordinator

2002 to 2004

Lecturer in Computer Science
Pannaikadu Veerammal Paramasivam College, Dindigul
- Timetable Committee Coordinator
- Cultural Committee Coordinator

2000 to 2002

Lecturer in Computer Science
Jayaraj Chelladurai College, Periyakulam
- Cultural Committee Coordinator
- Sports Coordinator

ACADEMIC PROFILE

2020

Ph.D., in Computer Science
AMET University, Chennai

2006

M.Phil., in Computer Science with **67%**
Bharathidasan University, Trichy

2000	**M.Sc., in Computer Science** with **81%**
	Vivekananada College, Madurai Kamaraj University, Madurai
1998	**B.Sc., in Mathematics** with **72%**
	Vivekananada College, Madurai Kamaraj University, Madurai

RESEARCH EXPERIENCE

- Published in about **15 International Journals and Conferences**, including **6 Scopus Indexed Journals** and **1 IEEE Conference**. Journal **Citations** value is **14.**

- **Ph.D., Thesis Title** is Enhanced Octagonal Multimedia Compression Algorithm Using Data Hiding Techniques For Secured Data Transmission.

- The Research work is to propose a new mechanism **OMCA** (Octagonal Multimedia Compression Algorithm) used to compress the data content (Text, image, audio, and video) in secured manner. The new hybrid data compression algorithm OMCA used to reduce the data size, time, and memory space.

- Submitted research funded project proposals to **The Research Council (TRC)** – **RG** (Research Grants) project "Disaster Management System – Cloud Platform Integration".

- Guided and Submitted an **URG** (Undergraduate Research Grants) project "Automation of Irrigation System Using IOT in Oman".

- **Keynote speaker** about "Ransomware – Evolution and Prevention" in the **International Conference** on Contemporary developments in Computer science, Artificial Intelligence and Data science in SRM College of Arts and Science, Trichy.

SCOPUS INDEXED INTERNATIONAL JOURNALS

- **M. Senthilkumar,** & V. Mathivanan, "Enhancing the Multimedia Data Hiding Mechanism by using - Octagonal Multimedia Compression Algorithm (OMCA)", Journal of Advanced Research in Dynamical and Control Systems Vol. 9. Sp– 6 / 2017.

- **M. Senthilkumar,** & V. Mathivanan, "Multimedia Data Hiding Compression Algorithms – A Comparative Study", Journal of Advanced Research in Dynamical and Control Systems Vol. 9. Sp– 6 / 2017.

- **M. Senthilkumar**, & V. Mathivanan, "Geo-Spatial Information for Managing Ambiguity", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 8, No. 3, December 2017, pp. 636 ~ 638.

- **M. Senthilkumar**, & V. Mathivanan, "Content Implementation of Cloud Connected Smart Robot for Environmental and Industrial Platform", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 8, No. 3, December 2017, pp. 645 ~ 647.

- **M. Senthilkumar**, & V. Mathivanan, "NFC Secured Offline Password Storage", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 8, No. 3, December 2017, pp. 730 ~ 732.

- Vimalkumar, Ramesh Palanisamy, K.Kumar, **M.Senthilkumar**, "A Novel Approach To Enhance The Qos Of Wireless Sensor Networks", Turkish Journal of Computer and Mathematics Education Vol.12 No.10 (2021), 3143-3147.

IEEE - INTERNATIONAL CONFERENCE

- Mohamed Sirajudeen, M. Mudassir Peeran and **M. Senthil Kumar**, "A way to enhance the extraction mechanism of 2D objects from robots memory using an orthogonal algorithm", 2010 International Conference on Signal and Image Processing, December 2010.

PEER REVIEWED - INTERNATIONAL JOURNAL PUBLICATIONS

- **M. Senthilkumar**, & V. Mathivanan, "Analysis of Data Compression Techniques using Huffman Coding and Arithmetic Coding", International Journal of Advanced Research in Computer Science and Software Engineering - IJARCSSE 2016, AMET University, Chennai, ISSN NO: 2277 128X, Volume 6, Issue 5, May 2016.

- **M. Senthilkumar**, & V. Mathivanan, "Performance Analysis of Data Compression Techniques for Multimedia Data Hiding", International Journal of Emerging Research in Management & Technology (IJERMT), ISSN NO: 2278-9359, Volume 5, Issue 7, July 2016.

- **M. Senthilkumar**, & V. Mathivanan, "Multimedia Data Hiding using Fourier series on an Experimental Basis", International Journal of Engineering and Computer Science (IJECS), ISSN: 2319-7242, Volume 5, Issue 7, Page No. 17317-17321, July 2016

- **M.Senthilkumar** and V.Mathivanan, "An Analysis of Data Compression Techniques with Cross Section Based Compression Algorithm (CSCA)", International Journal of Information and Communication (IJIC), December 2019.

NATIONAL AND INTERNATIONAL CONFERENCES AND PUBLICATIONS

- M.Mohamed Sirajudeen, M.Muddasir peeran and **M.SenthilKumar**, "Enhancing the software architectural design for content mapping mechanism of robots memory using an orthogonal algorithm", National Conference on Software Engineering 2010 (NCSOFT2010), June 2010.

- Aala Ibrahim Al-Handhali, Halya Jaber Al-Salmani, **M.Senthilkumar**. "Challenges and Approaches of Security in Big Data", International Conference in SRM College of Arts and Science, Trichy, March 2021 and Published in International Journal of Innovative Technology And Creative Engineering (IJITCE) ISSN:2045-8711, Vol.11 No.5 May 2021.

- Bahia Khalfan Al-Dhikhri, Shaima Ali Al-Habsi, **M.Senthilkumar**, "Enhancing Network Security Using Cryptography and Steganography", International Conference in SRM College of Arts and Science, Trichy, March 2021 and Published in International Journal of Innovative Technology And Creative Engineering (IJITCE) ISSN:2045-8711, Vol.11 No.6 June 2021.

- **M.Senthilkumar**, Mohamed R Rafi, Ramesh Palanisamy, "Measuring Cybersecurity in the Industry Revolution", Industry Revolution 4.0, University of Technology and Applied Sciences, Ibra.

INVITED LECTURES

- Presented the Webinar about "**Ransomware - Evolution and Prevention**" in Parvathy's Arts and Science College, Dindigul.

- Presented the Webinar about "**Importance of Cybersecurity**" in Nilgris College of Arts and Science College, Thaloor.

- Guest speech about "**Network Communication Around the World**" in GTN College of Arts and Science, Dindigul.

- Guest speech about "**Advanced Operating Systems and Features**" in GTN College of Arts and Science, Dindigul.

CONTRIBUTION TO THE DEPARTMENT

- **Quality Audit Member -** Work for our institution to get Accreditation from Oman Academic Accreditation Authority (OAAA). Overseeing Quality assurance in the university, ensuring its consistency with the college policies and procedures and was involved in **Accreditation** works of the university.

- **Learning Resources Committee Coordinator -** Responsible for ensuring the efficient use of the existing learning resources and used the related document evidence for Quality Audit.

- **Project Supervisor and Coordinator** – Supervising the students' academic projects.

- **Examination Committee Member –** Ensuring the integrity of examination by providing a standard and fair practice of assessments, examinations, and invigilation.

- **Academic Advisor** - Acted as a student Advisor for Performance tracking and advising.

- **Course Coordinator –** Organizing meet with group of colleges. Then designing and preparing course material for common courses.

- **Sports Coordinator** - Encouraging the students as sports coordinator for various sports activities.

- **Specialization Committee Member** - To offer recommendations regarding the growth of curriculum activities.

- **College Council Member** - Motivating and developing skills for the students.

- **Timetable Committee Coordinator** - Preparing the staff timetable and ensuring resources maximization.

- **Cultural Committee Coordinator** - Organizing intercollege meet and supervising arrangements as committee head. Winning the intercollegiate championship was the highlight.

APPRECIATED BY THE DEPARTMENT

- Got the certificate for **Excellent Service** for the Department in University of Technology and Applied Sciences, Ibra.

- Got the certificate for Train the Students for the **Inter Collegiate Competition** Championship in University of Technology and Applied Sciences, Ibra.

- Got the certificate for **Committed Sports coordinator** during Sports day in University of Technology and Applied Sciences, Ibra.
- Got the certificate for **Service Excellence** for the Department in Pannaikadu Veerammal Paramasivam College, Dindigul.

SKILL SETS

- Handling various language papers**, C, C++ and Java.**
- Making use of the scripting language **PhP** for the project work.
- Applied different kinds of database in the project work **Oracle, MySQL, and SQL Server**.
- Working in different operating systems like **Windows, Linux**.
- Specialized in the theory subjects **Operating Systems, Database Management Security,** and **Data Structures and Algorithms**.
- Applied real time applications on the papers **Database Administration** and **Research Methodology**.

INTERESTS AND ACTIVITIES

- Photography
- Cricket
- Volleyball
- Instrumental music
- Poetry writing

PERSONAL DATA

- Date of Birth   : 10-12-1977
- Gender   : Male
- Marital status   : Married
- Languages known   : English, Tamil (First Language)
- Address   : 14, East Street,
                            K.Paraipatty,
                            Begambur (post),
                            Dindigul – 624002,
                            TamilNadu, India