

# MANIKANDAN V. M.

Ph.D (Thesis Submitted)

M.Tech



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## Career Objective

I would like to work with a dynamic and enthusiastic research groups in an academic environment, where I can utilize my knowledge and experience for the betterment of the organization.

## Personal Details

Name : Manikandan V. M.  
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Calicut, Kerala-673614, India.  
Contact Number : +91- 9846503205  
Email IDs : vmkmanikandan@gmail.com  
coe14d001@iiitdm.ac.in  
Gender : Male  
Nationality : Indian  
Age & Date of Birth : 32 Years, 05-11-1985  
Father's Name : Raman V. M.  
Marital Status : Married  
Languages Known : Malayalam, English, Tamil(Speak)

## Areas of Interests (Specialization)

- Digital image watermarking
- Reversible data hiding
- Digital image forensics

## Areas of Interests (Core Subjects)

- Data Structures and Algorithms
- Operating Systems
- Database Management Systems

## Educational Details

Course	Specialization	Year	Board/ University	Percentage/ Grades
Ph.D	Computer Science and Engineering	2014-2018 (Thesis submitted)	Indian Institute of Information Technology Design and Manufacturing, Kancheepuram, Chennai, India.	8.23
M.Tech	Software Engineering	2008-2010	Cochin University of Science and Technology (CUSAT), India.	8.31
AMIE	Computer Science and Engineering	2005-2008	The Institute of Engineers (India), Kolkata.	8.33
Diploma	Computer Engineering	2001-2004	Board of Technical Examinations, Kerala, India.	59.35 %
SSLC	-	2001	Board of Examinations Kerala, India	82.83 %

## Other Academic Achievements

- UGC-NET in Computer Science and Applications(Lectureship), 2012
- GATE 2008, Score : 352
- GATE 2012, Score : 362

## Work Experience

- **4 Years and 5 months** research experience at Indian Institute of Information Technology Design and Manufacturing Kancheepuram, Chennai, Tamilnadu, India.  
[ 01-01-2014 onwards ]
- **3 Years and 5 months** teaching experience as an Asst. Professor and MEA Engineering College, Perinthalmanna, Malappuram, Kerala, India.  
[07-07-2010 to 30-12-2013]

## Additional Work Experience

- Reviewer of the following Journals/Conferences
  1. International Journal of Computer Vision and Image Processing (ISSN: 2155-6997 )- IGI Global Publishers
  2. International Journal of Engineering Research and Technology (ISSN: 2278-0181)
  3. International Journal of Science and Engineering Development Research (ISSN: 2455-2631)
  4. International Conference on Design and Manufacturing (IConDM)-2016
- M.Tech (Computer Science & Engg.) Course coordinator of MEA Engineering College, Perinthalmanna, Kerala during August-2012 to December-2013

## Membership in Professional Bodies

1. The Institution of Engineers , India (Membership No: AM134927-1)
2. IEEE Student Member (Membership No: 93931301)
3. International Association of Engineers (Membership No: 157337)

## Extra Curricular Achievements

- NCC B Certificate with B Grade
- Team member of the Shuttle Badminton team secured Silver medal in inter IIITDM Sports meet conducted at IIITDM Kancheepuram, Chennai, India in 2016.

## Publication Details

### Journal Publications

1. V. M. Manikandan, V. Masilamani, "Histogram Shifting-based Blind Watermarking Scheme for Copyright Protection in 5G", *Computers and Electrical Engineering*, Elsevier (Article in Press)- (SCI-E indexed)
2. V. M. Manikandan, V. Masilamani, "Reversible Data Hiding Scheme During Encryption Using Machine Learning", *Procedia Computer Science*, Elsevier, 2018 (Accepted for publication)- (Scopus indexed)
3. V. M. Manikandan, V. Masilamani, "A Novel Reversible Data Hiding Scheme that Provides Image Encryption", *Journal of Image and Graphics* (Accepted for publication).
4. V. M. Manikandan, V. Masilamani, "Copy-Move Forgery Detection using Histogram Based Package Clustering and Sorted Consecutive Local Binary Patterns", *International Journal of Control Theory and Applications*, vol. 10, issue. 13, pp. 29-36, 2017.

5. Vijasri L., V. M. Manikandan, V. Masilamani, " Principal Component Analysis Based Paralytic Attack Detection Using a New Distance Measure", *Procedia Computer Science*, Elsevier, 2018 (Accepted for publication)- (Scopus indexed).

#### **Publications International Conferences**

1. V. M. Manikandan, V. Masilamani, "An Efficient Visually Meaningful Image Encryption Using Arnold Transform", *IEEE Students' Technology Symposium*, pp. 266-271, 2016. IIT Kharagpur (Scopus indexed)
2. V. M. Manikandan, V. Masilamani, "A Context Dependent Fragile Watermarking Scheme for Tamper Detection from Demosaicked Color Images", *proceedings of 10<sup>th</sup> Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP)*, Article No.:61, ACM Digital Library, 2016, IIT Guwahati (Scopus indexed),
3. V. M. Manikandan, V. Masilamani, "Real-time Scene Change Detection and Entropy Based Semi-fragile Watermarking Scheme For Surveillance Video Authentication", in *Proceedings of 3rd International Symposium on Big Data and Cloud Computing Challenges (ISBCC)*, pp. 101-110, Springer International Publishing, 2016, Chennai (Scopus indexed).
4. Ayesha Sk, V. M. Manikandan, and V. Masilamani, "A Combined SVD-DWT Watermarking Scheme with Multi-level Compression Using Sampling and Quantization on DCT Followed by PCA", in *Proceedings of 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA)*, pp. 141-149, Springer International Publishing, 2015, Bhuvaneswar, (Scopus indexed).

#### **Publications in National Conferences/Workshops**

1. V. M. Manikandan, V. Masilamani, "A Novel Lossless Compression Based Reversible Data Hiding Scheme with Arnold Transform", *National Conference on Computational Intelligence in Electrical and Electronics Engineering*, 2017, Chennai.
2. V. M. Manikandan, V. Masilamani, "Quadtree Based Secure Least significant Bit Watermarking", to appear in the *proceedings of National Conference on Automata, Graphs and Logics (NAGL)*, 2015, Madras Christian College, Chennai
3. V. M. Manikandan, V. Masilamani, "A Modified SVD Based Watermarking with PCA Compression", *Workshop on Applications of Computer Vision, Graphics and Image Processing (WACIG)*, 2014., IISc. Bangalore.
4. Ayyappadas K, V. M. Manikandan, "A Novel Approach For Multi-Factor Authentication using Breath", *National Conference on Cyber Law and Forensics*, 2013.
5. Jahfar C, V. M. Manikandan, and Sumam Marry Idicula, "Multimodal Interface for Text Entry", *National Conference on Human computer interaction and Image Processing*, 2010.

#### **Declaration**

I hereby declare that all the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

**Thanking You**

Place : Chennai

Date : 07-06-2018

**Manikandan V. M.**