# Dr. Manikandan V. M.

Ph.D, M.Tech

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vmkmanikandan@gmail.com



### **Career Objective**

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

## **Personal Details**

Name : Manikandan V. M.

Address : Kuniyil House, Vakayad PO, Naduvannur

Calicut, Kerala-673614, India.

Gender : Male
Nationality : Indian

Age & Date of Birth : 32 Years, 05-11-1985

Marital Status : Married

Languages Known : Malayalam, English, Tamil(Speak), Hindi (Read/Write)

### **Areas of Interests (Specialization)**

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

# **Areas of Interests (Core Subjects)**

- Data Structures and Algorithms
- Software Engineering
- Operating Systems

#### **Educational Details**

- ➤ **Ph.D in Computer Science and Engineering** from Indian Institute of Information Technology Design and Manufacturing Kancheepuram, Chennai, India (Jan-2014 to May-2018)
- ➤ M.Tech in Software Engineering from Cochin University of Science and Technology, Kerala, India (July-2008 to June-2010)
- ➤ **AMIE in Computer Science and Engineering** from The Institute of Engineers (India) (June-2005 to April-2008)
- ➤ **Diploma in Computer Engineering from** Kerala Govt. Polytechnic College, Calicut, Kerala. (July-2001 to June-2004)

#### **Other Academic Achievements**

UGC-NET in Computer Science and Applications (Lectureship), 2012

GATE 2008, Score : 352GATE 2012, Score : 362

## **Work Experience**

- Currently working as an Asst. Professor (Adhoc) in Computer Science and Engineering at IIIT Kottayam (Since 25-06-2018)
- 4 Years and 5 months research experience at Indian Institute of Information Technology Design and Manufacturing Kancheepuram, Chennai, Tamilnadu, India.
   [01-01-2014 to 16-06-2018]
- 3 Years and 5 months teaching experience as an Asst. Professor at MEA Engineering College, Perinthalmanna, Malappuram, Kerala, India.
   [07-07-2010 to 30-12-2013]

### **Additional Work Experience**

- Reviewer of the following Journals/Conferences
  - 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
  - 5. Reviewer of International Conference on Robotics and Smart Manufacturing (RoSMa)-2018
- 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. The Institute of Electronics, Information and Communications Engineers (Membership No: No. 1683713)
- 4. 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**

- 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), 2018- [SCI-E indexed]
- 2. V. M. Manikandan, V. Masilamani, "A Novel Reversible Data Hiding Scheme that Provides Image Encryption", *Journal of Image and Graphics*, vol. 6, issue 1, pp. 64-68, 2018
- 3. V. M. Manikandan, V. Masilamani, "Reversible Data Hiding Scheme During Encryption Using Machine Learning", *Procedia Computer Science*, vol. 133, pp. 348-356, 2018- [Scopus indexed]
- 4. Vijasri L., V. M. Manikandan, V. Masilamani, "Principal Component Analysis Based Paralytic Attack Detection Using a New Distance Measure", *Procedia Computer Science*, vol. 133, pp. 306-314, 2018.- [Scopus indexed]
- 5. 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. [Scopus indexed, 2008-2016]
- 6. 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. (Received best paper award)
- 7. 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]
- 8. 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]
- 9. 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]

10. 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]

11. 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

12. 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.

13. Ayyappadas K, V. M. Manikandan, Manusankar C., "A Novel Approach For Multi-Factor

Authentication using Breath", National Conference on Cyber Law and Forensics, 2013.

14. Jahfar C, V. M. Manikandan, and Sumam Marry Idicula, "Multimodal Interface for Text Entry",

*National Conference on Human computer interaction and Image Processing*, 2010.

**Workshop Sessions Handled** 

Practice sessions handled on Digital image processing using Matlab as part of Six day workshop

on Workshop on Digital Image Processing and Applications (WDIPA-2018) at IIITDM

Kancheepuram, Chennai. (4-9 June, 2018)

• Practice sessions on Implementation of cryptography algorithms as part of Ten day faculty

development programme on Information Security at IIITDM Kancheepuram, Chennai. (12-22

May, 2018)

**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** 

Manikandan V. M.

Place: Trivandrum

Date : 14-Aug-2018

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