DR. V. MASILAMANI

Associate Prof. in Computer Science and Engineering
Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram (IIITDM Kancheepuram)
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Date of Joining at IIITDMKancheepuram : 2nd April 2009

Date of Birth: 8th Feb, 1974

Educational Qualification

- M.Tech in Computer Science and Data Processing from **IIT Kharagpur**
- Ph. D. in Computer Science and Engineering from **IIT Madras**

Area of Research:

Image Processing, Machine Learning and Theoretical Computer Science

Work Experience

- 11 years of teaching and research at IIITDM Kancheepuram
- 6 years of teaching experience before joining IIITDM Kancheepuram

Students Guided

Ph.D.   :   Completed 3; Ongoing 3
PG   :   Completed 14; Ongoing 6
UG   :   Completed 39; Ongoing 5

Funded Project:

1. Role Co-PI
   Project Title: **"Testing and Charecterization of Evolvable Hardware Algorithm to Develop Fault Tolerant Architecture"**
   Sponsoring Agency: DRDO
   Duration of the Project: 2 years
   Cost of the project: 45.42 Lakhs

2. Role PI
   Project Title: **"Detection and Prevention of Forged Obscene Images/Videos in Social Network"**
   Sponsoring Agency: Ministry of Home Affairs
   Duration of the Project: 14 Months
   Cost of the project: 48.96 Lakhs

3. Role: PI
   Project Title: Knowledge Graph for Adverse Drug Reaction (ADR) Association for Safety Signal Detection Using Public Safety Databases
   Sponsoring Agency: DataFoundry Pvt. Ltd. Bangalore.
   Duration of the Project: 2 years
   Cost of the Project: 15, 50, 520

4. Role: PI
   Project Title: "Machine Learning Algorithms for Security Applications & Image Processing"
   Sponsoring Agency: Forensics Intelligence Surveillance and Security Technologies Pvt. Ltd. Chennai
   Duration of Project Two Years
   Cost of Project: 6 Lakhs

5. Role: Co PI
   Title: "Information Security"
   Sponsoring Agency: MEITY ISEA Project
   Duration: Dec 2017 to July2019
   Cost of Project: 6.58 Lakhs

6. Role: PI
   Title: Feasibility Study on Computer Vision Based Angle Measurement of Wheels Without Markers
   Sponsoring Agency:
   Duration: Manatec Electronics Pvt. Ltd.
   Cost of the Project: 1,41,000

7. Role: PI
   Project Title: "Persons counter in Bus"
   Sponsoring Agency: Vamos System, Chennai
   Duration of Project 1st Feb, 2018 to 31st Jan, 2019
   Cost of Project: 2 Lakhs

Publications

- International Journals: 25
- International Conferences: 31
- National Conferences: 3

SCI indexed Journals Published in the last five years

1. De, Kanjar, and V. Masilamani. "No-reference image contrast measure using image statistics and random forest." Multimedia Tools and Applications, Vol. 76, no. 18, pp. 18641-18656. 2017

2. D. K. Sheena Christy, V. Masilamani, D.G. Thomas, Atulya K. Nagar and T. Robinson , Accepting H-Array Splicing Systems and their Properties, Romanian Journal of Information Science and Technology, Vol 21. no. 3, pp. 298-309, 2018

3. Ayesha Sk , V. Masilamani,   A novel digital watermarking scheme for data authentication and copyright protection in 5G networks ,   Computers and Electrical Engineering, Vol. 72, pp. 589-605, 2018

4. V.M. Manikandan, V. Masilamani,   Histogram shifting-based blind watermarking scheme for copyright protection in 5G,   Computers and Electrical Engineering, Vol 71, pp. 614-630, 2018

5. Kanjar De, Masilamani V, No Reference Image Quality Measures for Images with Multiple Distortions Using Random Forests for Multi-Method Fusion, Image Analysis and Stereology, Vol 37, No. 2, pp. 105-117. 2018

6. Kanjar De, Masilamani V, A no-reference image quality measure for blurred and compressed images using sparsity features, Cognitive Computation, Vol. 10, No. 6, pp. 980-990, 2018

7. V. M. Manikandan, Nelapati Lava Prasad , V. Masilamani, Half Difference Expansion Based Reversible Data Hiding Scheme for Medical Image Forensics, Current Medical Imaging Reviews, Vol. 16, No. 4, pp. 383-396, 2020

8. Pratik Joshi. V. Masilamani, Optic Disc Localization using Interference Map and Localized Segmentation using Grab Cut, Automatika: Journal for Control, Measurement, Electronics, Computing and Communications(Accepted for publication)(2020)

9. V. M. Manikandan, V. Masilamani, A novel image scaling based reversible watermarking scheme for secure medical image transmission, ISA Transaction(2020)(E-Published, In Press)

10. Pratik Joshi. V. Masilamani, An Ensembled SVM Based Approach For Predicting Adverse Drug Reactions Current Bioinformatics(2020)(E-Published)

11. Ayesha Sk , V. Masilamani, A Novel Digital Watermarking Scheme Using Dragonfly Optimizer In Transform Domain, accepted for publication in Computers and Electrical Engineering