Faculty Profile of Dr. J. Vijayakumar

Dr. J. Vijayakumar
Associate Professor & Head
Department of Electronics & Instrumentation

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Phone No:0422-2428498

Mobile No:+91 9786869929

Research Area

- Digital Signal & Image Processing
- Embedded systems
- Nanoelectronics

Education & Career

Education

Ph.D.
Subject : Information and Communication Engineering
Institution: Nandha Engineering College, Erode
Affiliated University: Anna University
Year of Award: 2015

M.E.,
Subject : Applied Electronics
Institution: Bannari Amman Institute of Technology, Sathyamangalam
Affiliated University: Anna University
Year of Award: 2005

B.E.,
Subject: Electronics and Communication Engineering
Institution: Maharaja Engineering College, Avinashi
Affiliated University: Bharathiar University
Year of Award: 2003

DECE
Subject: Diploma in Electronics and Communication Engineering
Institution: Kongu Polytechnic, Erode
Affiliated University: Tamil Nadu Technical Board
Year of Award: 2000

Career

At Bharathiar University (Reverse Order)
Associate Professor : November 2016 to Till Date

Past Experience
Associate Professor : June 2010 to November 2016 at Nandha College of Technology, Erode
Senior Lecturer : June 2005 to May 2010 at Mahendra Engineering College, Tiruchengode

Awards

Academic awards

Sl. No. : 1
Awarding agency : Outstanding Faculty in Engineering Award
Country : India
Purpose of award : Academic performance
Date of Award : 08.07.2017
Any other details : Outstanding Faculty in Engineering Award

Sl. No. : 2
Awarding agency : Friendship Forum of India
Country : India
Purpose of award : Academic performance
Date of Award : 09.09.2020
Any other details : Bharat Excellence Award

Sl. No. : 3
Awarding agency : Friendship Forum of India
Country : India
Purpose of award : Academic performance
Date of Award : 09.09.2020
Any other details : Leading Educationist of India Award

Membership

Membership in Professional Bodies

Sl. No. : 1
Organization : The Institution of Electronics and Telecommunication
Engineers (IETE)
Type of Membership : Member
Period : Life time

Sl. No. : 2
Organization : The Institution of Engineers (IE)
Type of Membership : Member
Period : Life time

Membership in Academic Bodies

Sl. No. : 1
Organization : Indian Society of Electronics and Communication Engineers (ISECE)
Type of Membership : Member
Period : Life time

Sl. No. : 2
Organization : The United States Association for Energy Economics (UASEE)
Type of Membership : Member
Period : Life time

Visits

Sl. No. : 1
Countries Vistes : Indonesia, Bali
Duration of Visit : 5 Days
Month and Year : August 2018
Purpose of Visit : Research paper presentation in the International Conference on Applied Research in Engineering and Management Sciences

Collaborators

Others

Projects

Funded Projects (National Level)
- Ongoing
- Completed

Ongoing Projects List with necessary Information

Completed Projects List with necessary Information

Consultancy Projects

- [Ongoing](#)
- [Completed](#)

Ongoing Consultancy Project Informations

Completed Consultancy Project Informations

Research Guidance

- [Post Doc.](#)
- [Ph.D.](#)
- [M.Phil.](#)
- [M.Sc.](#)

Ongoing

Title

Name

Completed

Title

Name

Ongoing

Sl. No. : 1

Name of the candidate : Jeganson Durai

Sl. No. : 2
Name of the candidate : Baskaran,D

Sl. No. : 3
Name of the candidate : Sruthi,K

Sl. No. : 4
Name of the candidate : Thavamani. S

Sl. No. : 5
Name of the candidate : Mervin Paulraj, M

Sl. No. : 6
Name of the candidate : Hemalatha, A

Completed

NA

Ongoing

Accordion content 1.

Completed

Accordion content 2.

Ongoing

Accordion content 1.

Completed

Sl. No. : 1
Name of the candidate : Hemalatha.A
Title of the Dissertation : A Systematic Algorithm For Denoising Audio Signal Using Savitzky- Dolay Method
Year : 2018

Sl. No. : 2
Name of the candidate : Janani. C
Title of the Dissertation : A Hybrid Real Time Tracking System For Theft Detection In Shopping Malls Video Processing
Year : 2018

Sl. No. : 3
Name of the candidate : Kavipriya. T
Title of the Dissertation : An efficient patient monitoring system using LabVIEW and Arduino
Year : 2018

Sl. No. : 4
Name of the candidate : Mervin Paulraj M
Title of the Dissertation : Certain Investigation On Vehicles Number Plate Identification Using Top Hat Transform Algorithm and OCR
Year : 2018

Sl. No. : 5
Name of the candidate : Surya. S
Title of the Dissertation : A LabVIEW based monitoring and control of multi sensor using NI MYRIO
Year : 2018

Sl. No. : 69
Name of the candidate : Bharathi .M
Title of the Dissertation : A Real Time Monitoring System For Precision

Agriculture Using WSN and LabVIEW

Year : 2019

Sl. No. : 7

Name of the candidate : Janani A

Title of the Dissertation : Integrated Mirror

Year : 2019

Sl. No. : 8

Name of the candidate : Jayaprakash. N

Title of the Dissertation : A Real Time Signal Processing Windowing Technique in LabVIEW

Year : 2019

Sl. No. : 9

Name of the candidate : Kanagavel. D

Title of the Dissertation : A Design and Development of Surveillance Robot Using NI-MYRIO

Year : 2019

Sl. No. : 10

Name of the candidate : Karthick Praveen Kumar. P

Title of the Dissertation : Wire Less Based Industrial Automation

Year : 2019

Sl. No. : 11

Name of the candidate : Naveen K

Title of the Dissertation : Rapid Shutter Camera Security Using Raspberry PI

Year : 2019

Sl. No. : 12

Name of the candidate : Poomani.S

Title of the Dissertation : Identification of Anthracnose Diseased Cotton

Leaves Using DIP and SVM Classifier

Year : 2019

Sl. No. : 13

Name of the candidate : Sruthi.K

Title of the Dissertation : DIP Based Algorithms For Extraction Of Retinal Blood Vessels and Exudates

Year : 2019

Research Publication

- [International](#)
- [National](#)
- [Patents](#)
- [Conferences](#)
- [Books/Chapters](#)
- [Database](#)

Reverse Chronological Order

2021

Number. Title

Author Names

Journal Name

2020

Number. Title

Author Names

Journal Name

2019-2004

26. Experimental Validation of Smart Farming Tool for Modern Agriculture
Baskaran,D, Vijayakumar, J
International Journal for Science and Advance Research in Technology, 2019.

25. Blood Vessel Extraction From Retinal Fundus Images Using Dip Techniques
Sruthi,K, Vijayakumar, J & Jeganson Durai, L
International Journal of Engineering Trends and Technology, 2019.

24. A Design and Development of Surveillance Robot using NI-MyRIO
Kanagavel, D & Vijayakumar, J & Maheswaran, R
International Journal for Research in Applied Science & Engineering Technology, 2019.

23. Rapid Shutter Camera Security Using Raspberry PI
Naveen,k & Vijayakumar, J
EPRA International Journal of Research and Development   2019

22. A Real Time Signal Processing Using Windowing Technique in LabVIEW
Jayaprakash,N, Vijayakumar, J & Maheswaran,R
EPRA International Journal of Research and Development, 2019.

21. Representation of Diseased Retinal Images Using Quantum Fourier Transform
Dr.J.Vijayakumar & L. Jeganson Durai
International Journal of Research, 2018.

20. Certain Investigations on Vehicles Number Plate Identification using Top Hat Transform Algorithm and Optical Character Recognition
M. Mervin Paulraj & Dr.J.Vijayakumar
International Journal on Future Revolution in Computer Science & Communication Engineering, 2018.

19. A Systematic Algorithm for Denoising Audio Signal Using Savitzky - Golay Method
Dr.J.Vijayakumar, A. Hemalatha & L. Jeganson Durai
International Journal on Future Revolution in Computer Science & Communication Engineering, 2018.

18. An Efficient Edge Detection Algorithm for Reducing the Limitations of Existing Operators
Dr.J.Vijayakumar & L. Jeganson Durai
International Journal of Engineering Trends and Applications, 2018.

17. Performance Analysis for Secure Quantum Image Transmission Using BB84 Protocol
Dr.J.Vijayakumar & L. Jeganson Durai
International Journal of Advanced Engineering Research &Technology, 2018.

16. A Review and Performance Analysis of Image Edge Detection Algorithms
Dr.J.Vijayakumar & L. Jeganson Durai
International Journal on Future Revolution in Computer Science & Communication Engineering, 2017.

15. Investigation and Monitoring Systems for Powdery Mildew Disease in Sirugamani Variety of Betel Vine Plants Using Digital Image Processing Techniques
Dr.J.Vijayakumar
International Journal on Future Revolution in Computer Science & Communication Engineering, 2017.

14. Study of Turmeric Plant Diseases and Methods of Disease Identification using Digital Image Processing Techniques
Vijayakumar, J
International Journal on Future Revolution in Computer Science & Communication Engineering, 2017.

13. Human Motion Detection in Video Surveillance Using Computer Vision Technique
Vijayakumar, J
International Research Journal of Engineering and Technology, 2017.

12. Investigation and Monitoring Systems For Foot Rot Disease in Sirugamani Variety of Betel Vine Plants Using Digital Image Processing Techniques
Vijayakumar, J
International Journal of Innovative Science And Applied Engineering Research, 2016.

11. Powdery Mildew Disease Identification in Pachaikodi Variety of Betel Vine Plants Using Histogram and Neural Network Based Digital Imaging Techniques
Vijayakumar, J & Narmatha, P
International Research Journal of Engineering and Technology, 2016.

10. A Survey on Early Stage Detection of Microaneurysms
Kavitha,N, Dr.J.Vijayakumar, Jayanthi,R & Manju Paarkavi,R
International Research Journal of Engineering and Technology, 2016.

09. Statistical Analysis Based Foot Rot Disease Identification in Sirugamani Variety of Betel Vine Plants Using Digital Image Processing Techniques
Vijayakumar, J
International Journal of Emerging Technologies and Innovative Research, 2016.

08. Powdery mildew disease identification in karpoori variety of betel vine plants using histogram based techniques
Vijayakumar, J
Advances in Image and Video Processing

07. Odium piperis fungus identification for piper betel plants using digital image processing
Vijayakumar, J & Arumugam, S
Journal of Theoretical and Applied Information Technology, 2014.

06. Foot rot disease identification for karpoori variety of betelvine plants using digital imaging technique
Vijayakumar, J & Arumugam, S
Australian Journal of Basic and Applied Sciences, 2013.

05. Disease identification in pachai kodi variety of betelvine plant using digital imaging techniques
Vijayakumar, J & Arumugam, S
Archives Des Sciences   2013

04. Powdery mildew disease identification for vellai kodi variety of betelvine plants using digital image processing
Vijayakumar, J & Arumugam, S

European Journal of Scientific Research, 2012.

03. Early detection of powdery mildew disease for betelvine plants using digital image analysis
Vijayakumar, J & Arumugam, S
International Journal of Modern engineering Research, 2012.

02. Recognition of powdery mildew disease for betelvine plants using digital image processing
Vijayakumar, J & Arumugam, S
International Journal of Distributed and Parallel Systems, 2012.

01. Study of betelvine plants diseases and methods of disease identification using digital image processing
Vijayakumar, J & Arumugam, S
European Journal of Scientific Research, 2012.

1. Foot rot disease identification for the betelvine plants using digital image processing
Vijayakumar, J & Arumugam, S
Journal of Computing, 2011.

2. Foot rot disease identification for vellai kodi variety of betelvine plants using digital image processing'
Vijayakumar, J & Arumugam, S
ICTACT Journal on Image and Video Processing, 2012.

3. Certain Investigation on Cotton Plant Diseases and Identification Methods using DIP Techniques
Poomani,S, Vijayakumar, J & Jeganson Durai, L
South Asian Journal for Engineering and Technology, 2019.

4. Exudates Localization from Retinoblastoma Diseased Fundus Image
Sruthi,K, Vijayakumar, J & Jeganson Durai, L
South Asian Journal for Engineering and Technology, 2019.

5. Smart Agriculture Ploughing tool for Agriculture using Embedded System
Baskaran,D, Vijayakumar, J

Alumini Reflections: