



Dr Shivaputra

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Address: Bengaluru ,Karnataka,India - 560056

Expertise

Electrical and Electronic Engineering

Image Processing; Computer Vision; Pattern Classification; Artificial Intelligence; Soft Computing; Mathematical image modeling and analysis

Work experience

1. Dr Ambedkar Institute of Technology, Bengaluru 2003 — Present

Assistant Professor
Bengaluru

Education

1. Ph.D. - 2017

Jain University

2. M.Tech - 2009

BMS College of Engineering, Bangalore

B.E. - 2002

University of Visvesvaraya College of Engineering

Honours and Awards

1. Best performer award for outstanding performance in academic and Research activities - 2023

Dr. Ambedkar Institute of Technology, Bangalore on " World Knowledge Day - 2023"

2. Elite Medalist in Electronic Waste Management -Issues and Challenges - 2021

NPTEL Online Certification, Funded by Ministry of MHRD, Govt. of India

3. Elite Medalist in Microelectronics Devices to Circuits - 2019

NPTEL Online Certification, Funded by Ministry of MHRD, Govt. of India

4. 2nd Prize for Poster Presentation - 2017

Karnataka Science and Technology Academy Government of Karnataka, DST andVijayanagara Sri Krishnadevaraya University, Ballari: National Conference on Impact of Science and Technology on Society and Economy

Membership In Professional Bodies

1. IEEE, 2022

Senior Member

2. IAENG (International Association of Engineers), 2018

Life Member

3. Singapore Institute of Electronics (SIE), 2018

Life Member

4. International Association of Computer Science and Information Technology(IACSIT), 2018

Life Member

- 3.

5. Cryptology Research Society of India, 2013

Life Member

6. **ISTE, 2003**
Life Member

Membership In Committees

1. **Journal of Supercomputing, 2022**
Revivewer
2. **Research and Development, 2020**
Coordinator and Member
3. **Board of Examination, 2015**
Coordinator and Member
4. **Board of Studies, 2014**
Coordinator and Member

Patent

1. **Planar Inverted-F Antenna (PIFA) With Improved Bandwidth And Impedance**
Inventor(s): Shivaputra, Praveen K B, Pramod K B, Rukhsana Arif Sayed, Alam Shaikh, Benakanahalli Puttappa Pradeep Kumar and Shankar Bhimappa Bandiwaddar, Assignee: Dr. Ambedkar Institute of Technology
Published: 2018-05-04
2. **MULTI BAND MICROSTRIP PATCH ANTENNA**
Inventor(s): Shivaputra, Praveen K B, Pramod K B, Rukhsana Arif Sayed, Alam Shaikh, Benakanahalli Puttappa Pradeep Kumar and Shankar Bhimappa Bandiwaddar, Assignee: Dr. Ambedkar Institute of Technology
Published: 2018-06-22
3. **DESIGN OF LUMINOUS LIGHT FOR VEHICLE MONITORING SYSTEM USING IOT**
Inventor(s): R Karunamoorthi, Kanamarlapudi Venkata S SurendraKumar, S Mahendran, Radha Kuruva, Makarand Upadhyaya, M Jemimah Carmichael, Nadeem Ahmad Khan, Arshad Husain, Harsha R, Shwetha M, S Senthil Kumar, T C Manjunath, Shivaputra, Meenakshi L Rathod and Neeraj Chandnani, Assignee: Erode Sengunthar Engineering College, Erode

Published: 2018-05-31

4. **Development of IoT based underground wire fault detection system**
Inventor(s): S Jaividya and Shivaputra, Assignee: K S Rangaswamy College of Technology, Tiruchengode, Tamilnadu
Published: 2021-02-26
5. **DWT Based Feature Extraction for Iris Recognition**
Inventor(s): Harsha R, Meenakshi L Rathod, Shivaputra, Shwetha M, Chetan S, Ramesh A and Mahalinga V Mandi, Assignee: Dr. Ambedkar Institute of Technology
Published: 2021-01-06
6. **SMART WHEELCHAIR FOR PHYSICALLY DISABLED PEOPLE USING IOT**
Inventor(s): C. R. VIJAY, DR. LATHA P, DR. HARISHCHANDER ANANDARAM, DR. AANCHAL TEHLAN, K R SWETHA, RUPALI NARENDRA AGME, DR. SHIVAPUTRA, DR.VAISHALI N. AGME, Assignee:
Published: 2022-06-17
7. **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING POWERED IMPACT FOR FUTURE OF HEALTH CARE**
Inventor(s): Paramjeet Kaur, G. Sujatha, Apurvakumar Pandya, Vipparla Aruna, Krishna Suresh B V N V Anjum Parvez, Shivaputra and Satish Kumar Das, Assignee: Paramjeet Kaur
Published: 2023-05-19

Publication

1. **IOT BASED VISIBLE LIGHT COMMUNICATION SYSTEM FOR BIOMEDICAL APPLICATION**
KDV Prasad, Pooja Singh, Shivaputra, P. Veeramanikandan, Venkatesan Hariram, Dillip Narayan Sahu
Acta Biomedica, Volume 94, Year 2023, Pages 366-382
2. **Comparative landmark detection on stops of dysarthric speech**
S.V. Sunitha, Shivaputra, S. Soundeswaran
Biomedical Signal Processing and Control, Volume 79, Year 2023
3. **Cloud Computing and Networking for SmartFarm AgriTech**
Rathod M.L.;Shivaputra A.;Umadevi H.;Nagamani K.;Periyasamy S.
Journal of Nanomaterials, Volume 2022, Year 2022
4. **Precise identification of objects in a hyperspectral image by characterizing the distribution of pure signatures**
Panchal S.M.;Shivaputra
International Journal of Electrical and Computer Engineering, Volume 12, Year 2022, Pages 6068-6078
5. **Improving Intelligibility of Dysarthric Speech using Landmark Detection**

and Modifications on Distorted Stops

S. V. Sunitha, Shivaputra and S. Soundeswaran
TELEMATIQUE, Volume 21, Year 2022, Pages 4556 – 4576

6. FPGA Implementation of Efficient I2C Protocol

NASREEN, Meenakshi L Rathod and Shivaputra
TELEMATIQUE, Volume 21, Year 2022, Pages 2165-2174

7. A Novel Approach of Hyperspectral Imaging Classification using Hybrid ConvNet

Panchal S.M.;Shivaputra
International Journal of Advanced Computer Science and Applications, Volume 13, Year 2022, Pages 273-281

8. Smart Seat Management with Contactless Ticketing IN Public Transport

Kavya Shivashankar, Shivaputra ,Meenakshi.L.Rathod, Harsha.R d
Smart Seat Management with Contactless Ticketing IN Public Transport, Volume Issue: 7, Year 2021, Pages 12393-12405

9. A Generic Review on Use of Artificial Intelligence in Robotics

Meenakshi L Rathod
Design Engineering, Volume , Year 2021, Pages

10. Object Classification from a Hyper Spectral Image Using Spectrum Bands with Wavelength and Feature Set

Panchal S.M.;Shivaputra
Lecture Notes in Networks and Systems, Volume 230, Year 2021, Pages 340-350

11. A cluster-based distributed cooperative spectrum sensing techniques in cognitive radio

Shwetha N.;Gangadhar N.;Niranjan L.;Shivaputra
Lecture Notes on Data Engineering and Communications Technologies, Volume 59, Year 2021, Pages 225-246

12. Photocatalytic degradation of organic dye by Cd-Fe doped ZnO nanoparticles

H G Anil kumar, K. Sudheer, S Soundeswaran, Shivaputra and C Nanjunda Swamy
6th International Conference on Nanoscience and Nanotechnology, Volume , Year 2021, Pages 923-924

13. Analysis and design of an optical biosensor using mathematical modeling

Sowmya Padukone G.;Uma Devi H.;Shivaputra ;Rathod M.L.
Lecture Notes in Mechanical Engineering, Volume , Year 2021, Pages 481-491

14. Chaotic Based Grain 128-Bit Stream Cipher for Image Encryption

Meghana S Ramesh and Shivaputra
Second International Conference on IoT, Social, Mobile, Analytics & Cloud in Computational Vision & Bio-Engineering (ISMAC-CVB 2020), Volume , Year 2020, Pages 577-589

15. **Survey on the Intelligibility of Dysarthric Speech**
Sunitha S V, Shivaputra and S Soundeswaran
Journal of Xidian University, Volume 14, Year 2020, Pages 1472-1484
16. **Design And Efficient Implementation Of Floating Point Multiplier Using Pipelined Architecture**
RENUKA N and SHIVAPUTRA
Proceedings of AICTE Sponsored 1st International E-Conference On "Recent Trends & Development in Information and Communication Engineering" (ICRTDIC-2020) 23rd October 2020, ISBN : 9788192710471 , Volume , Year 2020, Pages 247-252
17. **A COMPREHENSIVE ANALYSIS OF FRUIT AND VEGETABLE IMAGE CLASSIFICATION TECHNIQUES**
RENUKA N and SHIVAPUTRA
"Mathematical Sciences and Computational Intelligence, Volume , Year 2020, Pages 29-40
18. **A Research on Mystic Alexa Mirror**
Shivaputra, Meenakshi L Rathod, Shwetha M, S Soundeswaran
International Journal of Innovative Technology and Exploring Engineering (IJITEE)ISSN: 2278-3075, , Volume 9, Year 2019, Pages 543-547
19. **Efficient implementation of remote terminal module for mil-std 1553b applications**
Santhosh Reddy S.;Shivaputra
International Journal of Scientific and Technology Research, Volume 8, Year 2019, Pages 1490-1496
20. **IOT Based Garden Automation and WEB Based Analysis**
Shivaputra, Meenakshi L. Rathod, M. Shwetha, R. Murali and S. Sukumar
Journal of Advanced Research in Dynamical and Control Systems, Volume 10, Year 2018, Pages 1761-1767
21. **A Naïve Visual Cryptographic Algorithm for the Transfer of Compressed Medical Images**
Shivaputra Shivaputra ., HS Sheshadri ., V Lokesh .,
Bulletin of Electrical Engineering and Informatics, Volume 5, Year 2016
22. **Comp-bit-list size improvement in mespotine RLE and its applications**
Shivaputra, H S Sheshadri and V Lokesh
Gazi University Journal of Science, Volume 29, Year 2016, Pages 971 - 980
23. **An Efficient Lossless Medical Image Compression Technique For Telemedicine Applications**
Shivaputra, H S Sheshadri and V Lokesh
Computer Applications: An International Journal (CAIJ), Volume 2, Year 2015, Pages 63-69
24. **An Exquisite Approach For Image Compression Technique Using Lossless Compression Algorithm For ROI & Non-ROI Regions**
Shivaputra, H S Sheshadri and V Lokesh
International Journal of Computational Science, Information Technology and Control Engineering

25. **EOG based eye movement controlled human machine interface**
CHAOS 2013 - 6th Chaotic Modeling and Simulation International Conference, Proceedings, Year 2013
26. **Design of high security and performance system for storage devices using AES**
Bellikatti V.;Chetan S.;Shivaputra;Kushal K.
Advances in Intelligent Systems and Computing, Volume 174 AISC, Year 2013, Pages 353-359
27. **Efficient transport management system (ETMS) using ARM processor**
Shivaputra and Chetan S
CHAOS 2013 - 6th Chaotic Modeling and Simulation International Conference, Proceedings, Volume , Year 2013, Pages 149-158
28. **EOG Based Eye Movement Controlled Human Machine Interface**
Chetan S and Shivaputra
The 6th International Conference on Chaotic Modeling and Simulation, CHAOS 2013, Yeditepe University. Istanbul, Turkey, Volume , Year 2013, Pages 141-148
29. **Laceability in the brick product of cycles**
Murali R.;Shivaputra ;Chetan S.
CHAOS 2013 - 6th Chaotic Modeling and Simulation International Conference, Proceedings, Volume , Year 2013, Pages 419-428
30. **A QPSK modulated software defined radio receiver using TDM for multiple channel reception**
Shruthi M.L.J.;Shivaputra ;Harsha B.K.
Proceedings of 2012 IEEE International Conference on Advanced Communication Control and Computing Technologies, ICACCCT 2012, Volume , Year 2012, Pages 305-309
31. **Design and implementation of a RFID based prototype SmArt LibrARY (SALARY) system using wireless sensor networks**
Kushal K.;Muttanna Kadal H.;Chetan S.;Shivaputra
Advances in Intelligent and Soft Computing, Volume 167 AISC, Year 2012, Pages 499-505
32. **Design and implementation of a Smart AuTomed OUT-ward (SAT OUT) system using ARM processor for aircrafts**
Kushal K.;Chetan S.;Shivaputra
Proceedings - 4th International Conference on Computational Intelligence and Communication Networks, CICON 2012, Volume , Year 2012, Pages 463-467
33. **Spectrogram study of echo and reverberation - A novel approach to reduce echo and reverberation in room acoustics**
Pushpalatha G.S.;Shivaputra ;Mohan Kumar N.
Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, Volume 62 LNICST, Year 2012, Pages 210-213
34. **Spectrogram Study of Echo and Reverberation- A Novel Approach to**

Reduce Echo and Reverberation in Room Acoustics

Pushpalatha G S, Shivaputra and Mohan Kumar N

Signal Processing and Information Technology, Volume , Year 2011, Pages 210-213

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