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560056

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AREAS OF EXPERTISE

Electrical and Electronic Engineering

Image Processing; Computer Vision; Pattern Classification; Artificial Intelligence; Soft Computing; Mathematical image modeling and analysis, Physics: Materials Science

EDUCATION

Post Doctoral Fellowship 2025

NITK, Surathkal

Ph.D. 2017

Jain University

M.Tech 2009

BMS College of Engineering, Bangalore

B.E. 2002

University of Visvesvaraya College of Engineering

PROFESSIONAL EXPERIENCE

Dr Ambedkar Institute of Technology, Bengaluru 2003 - Present

Professor

Bengaluru Urban

HONOURS AND AWARDS

Best performer award for outstanding performance in academic and Research activities

2023

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

Elite Medalist in Electronic Waste Management -Issues and Challenges 2021

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

Elite Medalist in Microelectronics Devices to Circuits 2019

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

2nd Prize for Poster Presentation 2017

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

PROFESSIONAL MEMBERSHIPS

IEEE 2022

Senior Member

IAENG (International Association of Engineers) 2018

Life Member

Singapore Institute of Electronics (SIE) 2018

Life Member

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

Life Member

Cryptology Research Society of India 2013

Life Member

ISTE 2003

Life Member

COMMITTEE MEMBERSHIPS

Journal of Supercomputing 2022

Reviewer

Research and Development 2020

Coordinator and Member

Board of Examination 2015

Coordinator and Member

Board of Studies 2014

Coordinator and Member

PATENTS

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

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

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

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

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

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

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

PLANT LEAF CLASSIFICATION AND DISEASE DETECTION USING PROPOSED CNN MODEL

Inventor(s): Sejal Thakkar, Chirag Patel, Vipul Rajabhai Garchar, Vipul Rajabhai Garchar and Shivaputra

Assignee: Sejal Thakkar | Published: 2023-06-16

PLANT HEALTH MONITORING DEVICE

Inventor(s): Tamal Mondal, Deepak Kholiya, Periasami Nagappan, Ranjit Kumar, Vijaya Gajanan Shendge, D. Kavitha, Shivaputra, Sumanta Bhattacharya and Pooja Nagpal

Assignee: Tamal Mondal, Deepak Kholiya, Periasami Nagappan, Ranjit Kumar, Vijaya Gajanan Shendge, D. Kavitha, Shivaputra, Sumanta Bhattacharya and Pooja Nagpal | Published: 2024-04-23

PUBLICATIONS

1. High-Q Plasmonic Resonator for Volatile Organic Compound Detection

Mehta S.;Shivaputra S.;Ramesh S.;Mandi M.V.;Singh M.

IEEE Transactions on Plasma Science , Vol. (2025) , pp.

2. Improving Food Safety by IoT-based Climate Monitoring and Control Systems for Food Processing Plants

Kolikipogu R.;Shivaputra ;Muniyandy E.;Maroor J.P.;Lakshmi G.V.R.;Konduri B.;Naveenkumar R.

Remote Sensing in Earth Systems Sciences , Vol. 8 (2025) , pp. 387-399

3. Microwave photonic signal generation using a quadratic FBG based optoelectronic oscillator

Renuka B.;Shivaputra ;Ramesh S.;Mandi M.V.;Dasan M.;Singh M.

Physica Scripta , Vol. 100 (2025) , pp.

4. DynamicVisionCore: A Predictive Object Tracking Framework for Real-Time Robotics Applications

Suneel S.;Rallan R.;Jayakarthish R.;Naveenkumar R.;Dubey A.;Shivaputra

Proceedings of 8th International Conference on Trends in Electronics and Informatics Icoei 2025 , Vol. (2025) , pp. 1567-1574

5. Analyse and Predict the Detection of the Cyber - Attack Process by Using a Machine-Learning Approach

Dr. Charanjeet Singh;rajesh singh;shiva putra;Mohit Tiwari;BRAMAH HAZELA

OpenAlex , Vol. (2024) , pp.

6. Fuzzy-based IoMT system design challenges

Kolikipogu R.;Shivaputra ;Upadhyaya M.

Advances in Fuzzy Based Internet of Medical Things Iomt , Vol. (2024) , pp. 25-37

7. Analyse and Predict the Detection of the Cyber-Attack Process by Using a Machine-Learning Approach

Singh C.;Singh R.;Shivaputra ;Tiwari M.;Hazela B.

Eai Endorsed Transactions on Internet of Things , Vol. 10 (2024) , pp.

8. Comparative landmark detection on stops of dysarthric speech

Sunitha, S. V.;Shivaputra;Soundeswaran, S.

Biomedical Signal Processing and Control (2023)

9. **IOT BASED VISIBLE LIGHT COMMUNICATION SYSTEM FOR BIOMEDICAL APPLICATION**
KDV Prasad, Pooja Singh, Shivaputra, P. Veeramanikandan, Venkatesan Hariram, Dillip Narayan Sahu
Acta Biomedica , Vol. 94 (2023) , pp. 366-382
10. **Comparative landmark detection on stops of dysarthric speech**
Sunitha S.V.;Shivaputra ;Soundeswaran S.
Biomedical Signal Processing and Control , Vol. 79 (2023) , pp.
11. **A Novel Approach of Hyperspectral Imaging Classification using Hybrid ConvNet**
International Journal of Advanced Computer Science and Applications (2022)
12. **Cloud Computing and Networking for SmartFarm AgriTech**
Rathod M.L.;Shivaputra A.;Umadevi H.;Nagamani K.;Periyasamy S.
Journal of Nanomaterials , Vol. 2022 (2022) , pp.
13. **FPGA Based Register Access and Memory Control for 5G Beamforming Processing**
Rakshitha M.;Shivaputra ;Prabhu G.;Kumar C.V.N.
2022 IEEE North Karnataka Subsection Flagship International Conference Nkcon 2022 , Vol. (2022) , pp.
14. **FPGA Implementation of Efficient I2C Protocol**
NASREEN, Meenakshi L Rathod and Shivaputra
TELEMATIQUE , Vol. 21 (2022) , pp. 2165-2174
15. **Improving Intelligibility of Dysarthric Speech using Landmark Detection and Modifications on Distorted Stops**
S. V. Sunitha, Shivaputra and S. Soundeswaran
TELEMATIQUE , Vol. 21 (2022) , pp. 4556 - 4576
16. **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 , Vol. 12 (2022) , pp. 6068-6078
17. **A Novel Approach of Hyperspectral Imaging Classification using Hybrid ConvNet**
Panchal S.M.;Shivaputra
International Journal of Advanced Computer Science and Applications , Vol. 13 (2022) , pp. 273-281
18. **An Efficient FPGA Architecture to Automatically Detect the Condition of Orange Fruit**
N Renuka;Shivaputra;MD Rudresh;L Rathod Meenakshi
International Conference on Integrated Intelligent Computing Communication & Security (ICIIC) , Vol. 3rd International Conference on Integrated Intelligent Computing Communication & Security (ICIIC 2021) (2021) , pp.
19. **Analysis and Design of an Optical Biosensor Using Mathematical Modeling**
Lecture Notes in Mechanical Engineering (2021)
20. **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 , Vol. 230 (2021) , pp. 340-350
21. **Retraction:A cluster-based distributed cooperative spectrum sensing techniques in cognitive radio**
Shwetha N.;Gangadhar N.;Niranjan L.;Shivaputra

22. **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 , Vol. Issue: 7 (2021) , pp. 12393-12405
23. **A Generic Review on Use of Artificial Intelligence in Robotics**
Meenakshi L Rathod
Design Engineering , Vol. (2021) , pp.
24. **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 , Vol. (2021) , pp. 481-491
25. **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 , Vol. (2021) , pp. 923-924
26. **Survey on the Intelligibility of Dysarthric Speech**
Sunitha S V, Shivaputra and S Soundeswaran
Journal of Xidian University , Vol. 14 (2020) , pp. 1472-1484
27. **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 , Vol. (2020) , pp. 247-252
28. **Chaotic Based Grain 128-Bit Stream Cipher for Image Encryption**
Meghana S Ramesh;Dr. Shiva Putra
SSRN Electronic Journal (2020)
29. **A COMPREHENSIVE ANALYSIS OF FRUIT AND VEGETABLE IMAGE CLASSIFICATION TECHNIQUES**
RENUKA N and SHIVAPUTRA
“Mathematical Sciences and Computational Intelligence , Vol. (2020) , pp. 29-40
30. **A Research on Mystic Alexa Mirror**
International Journal of Innovative Technology and Exploring Engineering (2019)
31. **Efficient implementation of remote terminal module for mil-std 1553b applications**
Santhosh Reddy S.;Shivaputra
International Journal of Scientific and Technology Research , Vol. 8 (2019) , pp. 1490-1496
32. **A Research on Mystic Alexa Mirror**
International Journal of Innovative Technology and Exploring Engineering (IJITEE)ISSN: 2278-3075, , Vol. 9 (2019) , pp. 543-547
33. **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 , Vol. 10 (2018) , pp. 1761-1767
34. **Comp-bit-list size improvement in mespotine RLE and its applications**
Putra S.;Sheshadri H.S.;LOKESHA V.

35. **A Naïve Visual Cryptographic Algorithm for the Transfer of Compressed Medical Images**
Shivaputra Shivaputra;HS Sheshadri;V Lokesha
Bulletin of Electrical Engineering and Informatics (2016)
36. **Comp-Bit-List Size Improvement in Mespotine RLE and its Applications**
Putra, Shiva;Sheshadri, H. S.;Lokesha, V.
Gazi University Journal of Science (2016)
37. **An Exquisite Approach For Image Compression Technique Using Lossless Compression Algorithm For ROI & Non-ROI Regions**
Shivaputra, H S Sheshadri and V Lokesha
International Journal of Computational Science, Information Technology and Control Engineering (IJCSITCE) , Vol. 2 (2015) , pp. 1-13
38. **An Efficient Lossless Medical Image Compression Technique For Telemedicine Applications**
Shivaputra, H S Sheshadri and V Lokesha
Computer Applications: An International Journal (CAIJ) , Vol. 2 (2015) , pp. 63-69
39. **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 , Vol. 174 AISC (2013) , pp. 353-359
40. **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 , Vol. (2013) , pp. 141-148
41. **Laceability in the brick product of cycles**
Murali R.;Shivaputra ;Chetan S.
Chaos 2013 6th Chaotic Modeling and Simulation International Conference Proceedings , Vol. (2013) , pp. 419-428
42. **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 , Vol. 167 AISC (2012) , pp. 499-505
43. **Design and implementation of a Smart AuTomated 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 Cicc 2012 , Vol. (2012) , pp. 463-467
44. **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 , Vol. (2012) , pp. 305-309
45. **Spectrogram study of echo and reverberation - A novel approach to reduce echo and reverberation in room acoustics**
Pushpalatha G.S.;Shivaputra ;Mohan Kumar N.

