



Dr Shivaputra

Professor
Department of Electronics and
Communication Engineering
Dr. Ambedkar Institute of
Technology, BANGALORE

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CONTACT

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PROFILES

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SCOPUS: [55340255900](#)

RESEARCHER: AAE-3813-2019

GOOGLE_SCHOLAR:
k8oj8KEAAAAJ

EXPERTISE

Electrical and Electronic
Engineering

Curriculum Vitae

PROFESSIONAL EXPERIENCE

Professor

Feb 2003 - Present

Department of
Electronics and
Communication
Engineering | Dr.
Ambedkar Institute
of Technology,
BANGALORE

EDUCATION

Education 2025

NITK,
Surathkal

Doctor of 2017

Philosophy

Jain
University

Master of 2009

Technology

BMS College
of
Engineering,
Bangalore

Bachelor of 2002

Engineering

UNIVERSITY
OF
VISVESVARAYA
COLLEGE OF
ENGINEERING

HONOURS & AWARDS

Best 202

performer
award for
outstanding
performance
in academic

Elite 2021

Medalist in
Electronic
Waste
Management
-Issues and

and Research activities

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

Challenges

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

Elite Medalist in Microelectronics Devices to Circuits

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

2nd Prize for 2017 Poster Presentation

Karnataka
Science and
Technology
Academy
Government of
Karnataka, DST
and Vijayanagara
Sri Krishnadev

PUBLICATIONS

Efficient I2C Protocol Implementation for Digital Control Interface using FPGA

2026

Vol. 2, Pages [2617-2624](#)

A LSTM-XGBoost Integrated Model for Smart Resilience Networks

2026

Ganta Chamundeswari; H. Devanna;
Jayendra Gopal Thatipudi; M. Amina
Begum; Pralhad K. Mudalkar; Shivaputra.
Pages 95-116

DOI: 10.1201/9781003642145-5

WES-HOA-based ReScaleX- CNN for Plant Leaf Disease Classification 2026

Journal of communications
software and systems

Akkalappa S.P.; Shivaputra; Rathod M.L.;
Gowda D.P.; Sasi S.. Vol. 22, Issue 4,
Pages 561-571

DOI: 10.24138/jcomss-2025-0194

Improving Food Safety by IoT-based Climate Monitoring and Control Systems for Food Processing Plants 2025

Remote Sensing in Earth Systems
Sciences

Ramakrishna Kolikipogu; Shivaputra;
Elangovan Muniyandy; Jnaneshwar Pai
Maroor; Gundala Venkata Rama Lakshmi;
Bhagavan Konduri; R. Naveenkumar. Vol.
8, Issue 2, Pages 387-399

DOI: 10.1007/s41976-024-00190-4

High-Q Plasmonic Resonator for Volatile Organic Compound Detection 2025

IEEE Transactions on Plasma
Science

Shweta Mehta; S. Shivaputra; S. Ramesh;
Mahalinga V. Mandi; Mandeep Singh. Vol.
53, Issue 9, Pages [2385-2392](#)

DOI: 10.1109/TPS.2025.3592447

Microwave photonic signal generation using a quadratic FBG based optoelectronic oscillator 2025

Physica Scripta

Renuka B; Shivaputra; Ramesh S;
Mahalinga V Mandi; Meena Dasan;
Mandeep Singh. Vol. 100, Issue 6
DOI: 10.1088/1402-4896/add8ef

DynamicVisionCore: A Predictive Object Tracking Framework for Real-Time Robotics Applications 2025

Suneel, S.; Rallan, R.; Jayakarthish, R.;
Naveenkumar, R.; Dubey, A.; Shivaputra.
Pages 1567-1574

DOI: 10.1109/ICOEI65986.2025.11013619

Verilog-Driven Simulation and RTL Architecture of the SPECK Cipher for High-Performance Cryptography in VLSI Systems 2025

Shivaputra; Pavithra G.. Pages 702-707

DOI:
10.1109/ICAICCIT68829.2025.11434454

Analyse and Predict the Detection of the Cyber - Attack Process by Using a Machine-Learning Approach 2024

Charanjeet Singh; Rajesh Kumar Singh;
Shivaputra Shivaputra; Mohit Tiwari;
Bramah Hazela.

DOI: 10.60692/ckm20-ryj23

Analyse and Predict the Detection of the Cyber-Attack Process by Using a Machine-Learning Approach **2024**

EAI Endorsed Transactions on Internet of Things

Singh, C.; Singh, R.; Shivaputra; Tiwari, M.; Hazela, B.. Vol. 10

DOI: 10.4108/eetiot.5345

Fuzzy‐Based IoMT System Design Challenges **2024**

Kolikipogu, Ramakrishna; Shivaputra; Upadhyaya, Makarand. Pages 25-37

DOI: 10.1002/9781394242252.ch2

Comparative landmark detection on stops of dysarthric speech **2023**

Biomedical Signal Processing and Control

S.V. Sunitha; Shivaputra; S. Soundeswaran. Vol. 79, Pages 104125

DOI: 10.1016/J.BSPC.2022.104125

Precise identification of objects in a hyperspectral image by characterizing the distribution of pure signatures **2022**

International Journal of Electrical and Computer Engineering (IJECE)

Soumyashree M Panchal; Shivaputra Shivaputra. Vol. 12, Issue 6, Pages 6068

DOI: 10.11591/ijece.v12i6.pp6068-6078

**A Novel Approach of
Hyperspectral Imaging
Classification using Hybrid
ConvNet** **2022**

International Journal of Advanced
Computer Science and
Applications

Panchal, Soumyashree M.; Shivaputra.
Vol. 13, Issue 3

DOI: 10.14569/IJACSA.2022.0130334

**Cloud Computing and
Networking for SmartFarm
AgriTech** **2022**

Journal of Nanomaterials

Rathod, Meenakshi L.; Shivaputra, A.;
Umadevi, H.; Nagamani, K.; Periyasamy,
Selvakumar. Vol. 2022, Issue 1, Pages 1-7

DOI: 10.1155/2022/6491747

**FPGA Based Register
Access and Memory Control
for 5G Beamforming
Processing** **2022**

Rakshitha, M.; Shivaputra; Prabhu, G.;
Kumar, C.V.N.. Pages 1-4

DOI:
10.1109/NKCon56289.2022.10126889

**A cluster-based distributed
cooperative spectrum
sensing techniques in
cognitive radio** **2021**

Shwetha, N.; Gangadhar, N.; Niranjan, L.;
Shivaputra. Pages 225-246

DOI: 10.1007/978-981-15-9651-3_20

An Efficient FPGA Architecture to Automatically Detect the Condition of Orange Fruit **2021**

N Renuka; Shivaputra; MD Rudresh; L Rathod Meenakshi. Vol. 4
DOI: 10.2991/AHIS.K.210913.050

Object Classification from a Hyper Spectral Image Using Spectrum Bands with Wavelength and Feature Set **2021**

Soumyashree M. Panchal; Shivaputra.
Pages 340-350
DOI: 10.1007/978-3-030-77442-4_29

Retraction Note to: A Cluster-Based Distributed Cooperative Spectrum Sensing Techniques in Cognitive Radio (Innovative Data Communication Technologies and Application, Lecture Notes on Data Engineering and Communications Technologies 59, https://doi.org/10.1007/978-981-15-9651-3_20) **2021**

Shwetha N.; Gangadhar N.; Niranjana L.; Shivaputra. Vol. 59, Pages C1
DOI: 10.1007/978-981-15-9651-3_72

Analysis and Design of an Optical Biosensor Using Mathematical Modeling 2020

G. Sowmya Padukone; H. Uma Devi; Shivaputra; Meenakshi L. Rathod. Pages 481-491

DOI: 10.1007/978-981-15-6619-6_53

Chaotic Based Grain 128-Bit Stream Cipher for Image Encryption 2020

Meghana S Ramesh; Dr. Shiva Putra.

DOI: 10.2139/SSRN.3735835

A Research on Mystic Alexa Mirror 2019

Vol. 9, Issue 2S3, Pages 543-547

DOI: 10.35940/IJITEE.B1128.1292S319

Efficient implementation of remote terminal module for mil-std 1553b applications 2019

Santhosh Reddy, S.; Shivaputra.

A Naïve Visual Cryptographic Algorithm for the Transfer of Compressed Medical Images 2016

Bulletin of Electrical Engineering and Informatics

Shivaputra Shivaputra; HS Sheshadri; V Loksha. Vol. 5, Issue 3, Pages 347-365

DOI: 10.11591/EEI.V5I3.544

Comp-bit-list size improvement in mespotine RLE and its applications **2016**

GAZI UNIVERSITY JOURNAL OF SCIENCE

Putra, S.; Sheshadri, H.S..

EOG based eye movement controlled human machine interface **2013**

Shivaputra, C.S..

Efficient transport management system (ETMS) using ARM processor **2013**

Shivaputra, C.S..

Laceability in the brick product of cycles **2013**

Murali, R.; Shivaputra; Chetan, S..

A QPSK Modulated Software Defined Radio Receiver Using TDM for Multiple Channel Reception **2012**

Shruthi, M. L. J.; Shivaputra; Harsha, B. K.. Pages 305-309

DOI: 10.1109/ICACCCT.2012.6320792

Design and Implementation of a RFID Based Prototype SmArt LibrARY (SALARY) System Using Wireless Sensor Networks 2012

K. S. Kushal; H. K. Muttanna Kadal; S. Chetan; Shivaputra. Pages 499-505
DOI: 10.1007/978-3-642-30111-7_47

Design and implementation of a Smart AuTOMated OUT-ward (SAT OUT) system using ARM processor for aircrafts 2012

Kushal, K.S.; Chetan, S.; Shivaputra. Pages 463-467
DOI: 10.1109/CICN.2012.83

Design of High Security and Performance System for Storage Devices Using AES 2012

Vinodkumar I. Bellikatti; S. Chetan; Shivaputra; K. S. Kushal. Pages 353-359
DOI: 10.1007/978-81-322-0740-5_42

Spectrogram Study of Echo and Reverberation– A Novel Approach to Reduce Echo and Reverberation in Room Acoustics 2012

Pushpalatha G.S.; Shivaputra; Mohan Kumar N.. Pages 210-213
DOI: 10.1007/978-3-642-32573-1_36

THESES

Identification and

Improving the Intelligibility

**Classification
of Objects in
Hyper
spectral
Images using
Machine
Learning
Techniques**

Visvesvaraya
Technological
University,
Belagavi

Thesis | Awarded:
2023

**of Dysarthric
Speech**

Visvesvaraya
Technological
University,
Belagavi

Thesis | Awarded:
2023

PATENTS

**Planar
Inverted-F
Antenna
(PIFA) With
Improved
Bandwidth
And
Impedance**

Dr. Ambedkar
Institute of
Technology

Patent | India

**MULTI BAND
MICROSTRIP
PATCH
ANTENNA**

Dr. Ambedkar
Institute of
Technology

Patent | India

**Development
of IoT based
underground
wire fault
detection
system**

K S Rangaswamy
College of
Technology,
Tiruchengode,
Tamilnadu

**SMART
WHEELCHAIR
FOR
PHYSICALLY
DISABLED
PEOPLE
USING IOT**

Patent | No.
[202241030783](#) A
| India

Patent | India

**ARTIFICIAL
INTELLIGENCE
AND MACHINE
LEARNING
POWERED
IMPACT FOR
FUTURE OF
HEALTH CARE**

Paramjeet Kaur

Patent | No.
[202311021301](#) A |
India

**PLANT LEAF
CLASSIFICATION
AND DISEASE
DETECTION
USING
PROPOSED
CNN MODEL**

Sejal Thakkar

Patent | No.
[202321031133](#) A
| India

**PLANT
HEALTH
MONITORING
DEVICE**

Tamal Mondal,
Deepak Kholiya,
Periasami
Nagapppan,
Ranjit Kumar,
Vijaya Gajanan
Shendge, D.
Kavitha,
Shivaputra,
Sumanta
Bhattacharya and
Pooja Nagpal

Patent | No.
393898-001

**DWT Based
Feature
Extraction for
Iris
Recognition**

Patent | No.
[2020102066](#) |
India

**DESIGN OF
LUMINOUS
LIGHT FOR
VEHICLE
MONITORING
SYSTEM
USING IOT**

R.Karunamoorthi
Patent | India

MEMBERSHIP

IEEE

Professional
Membership
Senior Member

ISTE

Professional
Membership
Life Member

Cryptography Research Society of India

Professional
Membership
Life Member

IAENG (International Association of Engineers)

Professional
Membership
Life Member

Singapore Institute of Electronics (SIE)

Professional
Membership
Life Member

International Association of Computer Science and Information Technology(IACSIT)

Professional
Membership
Life Member

Board of Studies

Committee
Membership
Coordinator and
Member

Board of Examination

Committee
Membership
Coordinator and
Member

Research and Development

Journal of Supercomputing

Committee
Membership

Coordinator and
Member

Committee
Membership

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