

**Arun M**

Associate Professor Sr- & HOD

VIT, Vellore

- [Department of Embedded Technology](#)  
[arunm@vit.ac.in](mailto:arunm@vit.ac.in) (Work)



•

#### CONFERENCES

[Adjustable Linear Actuator Based Power Seat for Occupational Disorders](#)

J. Ghosh and

Arun M

2020 | Institute of Electrical and Electronics Engineers Inc.



•

#### ARTICLES

[Logically Optimal Novel 4:2 Compressor Architectures for High-Performance Applications](#)

M. Priyadharshni, A. Chathalingathu, Kumaravel S

Arun M , S.N. Mahammad (6 authors)

2020 | Springer



- 

#### CONFERENCES

[Deep learning-based smart colored fabric defect detection system](#)

S. Barua,

Hemprasad Yashwant Patil

, ...,

Arun M

(4 authors)

2020 | Springer



- 

#### ARTICLES

[Reliability Assessment of Solder Joints in Electronic Devices under Extreme Thermal Fluctuations](#)

A. Surendar, M. Kavitha,

Arun M and V. Panwar 2020 | Institute of Electrical and Electronics Engineers Inc.



•

#### ARTICLES

[A competition between stress triaxiality and joule heating on microstructure evolution and degradation of SnAgCu solder joints](#)

W.A. Siswanto, Arun M, A. Maseleno (5 authors) 2020 | Elsevier Ltd

•

#### ARTICLES

[Energy efficient and low noise OTA with improved NEF for neural recording applications](#)

B. Saidulu and

Arun M 2020 | Inderscience Publishers



•

#### ARTICLES

[Microstructural Characterization and Unified Reliability Assessment of Aged Solder Joints in a PV Module](#)

N.H. Jabarullah, A. Surendar, Arun M, T. Krasnopevtseva (5 authors)

2020 | Institute of Electrical and Electronics Engineers Inc.

•

## ARTICLES

[Design, analysis, and implementation of a new high step-up DC–DC converter with low input current ripple and ultra-high-voltage conversion ratio](#)

N.H. Jabarullah, E. Geetha, [Arun M](#) and V. Vakhnina

2020 | Institution of Engineering and Technology

## JOURNAL ARTICLE

[Performance Optimization of Tridiagonal Matrix Algorithm \[TDMA\] on Multicore Architectures](#)

Anishchandran Chathalingath and

[Arun M](#) 2019 | IGI Global

## ARTICLES

[Performance optimization of tridiagonal matrix algorithm \[TDMA\] on multicore architectures: Computational framework and mathematical modelling](#)

A. Chathalingath and [Arun M](#) 2019 | IGI Global



•

## ARTICLES

[FFcPsA: a fast finite conventional state using prefix pattern gene search algorithm for large sequence identification](#)

A. Surendar, [Arun M](#) and A. Mahabub Basha

2019 | Springer Verlag

## ARTICLES

[Predictive analysis of crops cultivation for a smart green environment using azure services](#)

S. Rajkumar, Arun M, S.S. Sanjeev (4 authors)

2019 | Blue Eyes Intelligence Engineering and Sciences Publication

## JOURNAL ARTICLE

[An Identity Based Key Management Technique for Secure Routing in MANET](#)

Chandrashekar J and

Arun M

2018 | The Intelligent Networks and Systems Society



•

## PROCEEDINGS ARTICLE

[Automation Framework for Linux Audio](#)

P. Gulavani and

Arun M

2018 | IEEE

•

## JOURNAL ARTICLE

[Remote sensing image retrieval using object-based, semantic classifier techniques](#)

Navin Kumar Arun M and Dangi M.K. 2018 | Inderscience Publishers



- 

BOOK CHAPTER

[Power and Area Efficient Opamp for Biomedical Applications Using 20 nm-TFET](#)

Saidulu B and

[Arun M](#)

2018 | Springer Singapore



- 

PROCEEDINGS ARTICLE

[Fault Management Strategy and PWM Monitoring for HVAC ECU](#)

Patel V and

[Arun M](#)

2018 | IEEE



- 

BOOK CHAPTER

[An Improved CMOS Voltage Bandgap Reference Circuit](#)

Saidulu B,

Arun M

, ..., Sk J.B. (4 authors)

2018 | Springer Singapore



- 

PROCEEDINGS ARTICLE

[Implementation of Analytical Tool for Power Analysis in Multi Core Modem](#)

Garg N, Jain A and

Arun M

2018 | IEEE



- CONFERENCES

[Module design for monitoring the health of CT Machine's Rotating frame](#)

S. Shah, P. Manoj and

[Arun M](#)

2018 | Institute of Electrical and Electronics Engineers Inc.

SORT BY YEAR (MOST RECENT)

- JOURNAL ARTICLE

[Dual-band re-configurable graphene-based patch antenna in terahertz band for wireless network-on-chip applications](#)

Mrunalini S and

[Arun M](#)

2017 | Institution of Engineering and Technology (IET)

- JOURNAL ARTICLE

[Genetic algorithm-based feature selection for classification of land cover changes using combined LANDSAT and ENVISAT images](#)

[Navin Kumar](#)

and

[Arun M](#)





•  
PROCEEDINGS ARTICLE

[Parallelization of digit recognition system using Deep Convolutional Neural Network on CUDA](#)

Srishti singh, Amrit paul and

[Arun M](#)

2017 | IEEE



•  
PROCEEDINGS ARTICLE

[Bare-metal agent architecture for target communication framework](#)

Shashanka Navada,

[Arun M](#)

and Srimukhee Balasubramanian

2017 | IEEE

# IOP Conference

- 

JOURNAL ARTICLE

[Smart security system for Indian rail wagons using IOT](#)

Bhanuteja S, Pragna K and

Arun M

2017 | IOP Publishing

DOWNLOAD



- 

PROCEEDINGS ARTICLE

[Comparative analysis of parallelised shortest path algorithms using Open MP](#)

Uditi and

Arun M

2017 | IEEE



- PROCEEDINGS ARTICLE

[Easy connect\(eC\)](#)

A. Chare, K. Dhakate, ...,

[Arun M](#)

and V. Hariharasudhan (5 authors)

2017 | IEEE

- ARTICLES

[FPGA based multi-level architecture for next generation DNA sequencing](#)

A. Surendar and

[Arun M](#)

2016 | Scientific Publishers of India

- ARTICLES

[Efficient DNA sequence analysis for reduced gene selection using frequency analysis](#)

A. Surendar and

[Arun M](#)

2016 | SPB Pharma Society

- 

#### ARTICLES

[Micro sequence identification of bioinformatics data using pattern mining techniques in FPGA hardware implementation](#)

A. Surendar,

Arun M

and A.M. Basha

2016 | Medwell Journals



- 

#### PROCEEDINGS ARTICLE

[Novel dual polarized graphene based antenna for wireless communications in THz band](#)

L n sirisha mrunalini and

Arun M

2016 | IEEE

- 

#### ARTICLES

[Low noise low power CMOS telescopic-OTA for bio-medical applications](#)

B. Saidulu,

Arun M

and

Kumaravel S

2016 | MDPI AG

DOWNLOAD

- 

JOURNAL ARTICLE

[Accuracy analysis of various classification algorithms for used land](#)

Navin Kumar

and

Arun M

2016 | Inderscience Publishers

- 

JOURNAL ARTICLE

[Enhanced Classification Algorithms for the Satellite Image Processing](#)

Suresh Kumar Vadrangi

and

Arun M

2015 | Indian Society for Education and Environment

- 

ARTICLES

[Deforestation identification model using satellite images by color based segmentation](#)

N. Suresh Kumar and

Arun M

2015 | Sphinx Knowledge House

- 

JOURNAL ARTICLE

[Optimal Resource Allocation and Power Management for Mobile-To-Mobile Communication in Cellular Network](#)

Arun M

2015 | Indian Society for Education and Environment

- 

ARTICLES

[Hardware based algorithms for bioinformatics applications - A survey](#)

A. Surendar,

Arun M

and P.S. Periasamy

2013

- 

JOURNAL ARTICLE

[Reversible Arithmetic Logic Gate \(ALG\) for Quantum Computation](#)

Arun M

and Saravanan P.

2013 | The Intelligent Networks and Systems Society

- 

ARTICLES

[Functional verification of signature detection architectures for high speed network applications](#)

Arun M

and A. Krishnan

2012

- 

#### CONFERENCES

[A distributed e-healthcare system for patient monitoring and diagnosis](#)

R. Malmathanraj and

Arun M

2012

- 

- 

[Comparative power analysis of precomputation based Content Addressable Memory](#)

Arun M

and A. Krishnan

2011

DOWNLOAD

- 

#### ARTICLES

[Power analysis of multiple hashing bloom filter architecture for network applications](#)

Arun M

and A. Krishnan

2011

- 

#### ARTICLES

[Low power Bloom filter architectures using multi-stage lookup technique](#)

Arun M

and A. Krishnan



- 

#### ARTICLES

[Fuzzy based reconfiguration algorithm for voltage stability enhancement of distribution systems](#)

Arun M

and P. Aravindhababu

2010 | Elsevier Ltd

- 

#### ARTICLES

[Application of creative design concept to braking system synchronization in two wheeler bikes](#)

S. Vinodh and

Arun M

2010

- 

#### CONFERENCES

[Multi hashing low power bloom filter architectures for network applications](#)

Arun M

and A. Krishnan

2010



- 

## ARTICLES

[A new reconfiguration scheme for voltage stability enhancement of radial distribution systems](#)

Arun M

and P. Aravindhababu

2009