Mr Swamy TN

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Address: Bangalore Urban ,Karnataka,India - 560056

Expertise

Electrical and Electronic Engineering

VLSI and Image Processing

Work experience

1. Dr Ambedkar Institute of Technology, Bengaluru 2013 — Present

   Assistant Professor
   Bengaluru

Education

1. Ph.D Persuing - 2023

   Visvesvaraya Technological University

2. M.Tech - 2011

   NITTE Meenakshi Institute of Technology

3. BE - 2008

Visvesvaraya Technological University

Honours and Awards

1. Elite Certificate for NBA Accreditation and Teaching Learning in Engineering - 2020

   SWAYAM AICTE Roll No. NPTEL20GE11S11210364

2. Departmental Coordinator for TEQIP-III Sponsored National Conference NCRTEIEC 2019 - 2019

   Dr. Ambedkar Institute of Technology

3. Elite Certificate for Introduction to Research - 2019

   SWAYAM AICTE Roll No> NPTEL19GE21S61142409

Membership In Professional Bodies

1. International Association of Engineers (IAENG), 2021
   Member 276518

2. IEEE, 2021
   Graduate Student Member

3. Institute of Electronics and Telecommunication Engineers (IETE), 2019
   Member

Membership In Committees

1. Department Level Academic Audit Commitee, 2022
   Member

2. Department Level AICTE , 2020
   Coordinator

3. Department Level VTU Coordinator, 2020
Coordinator

4. ECE Department Magazine, 2020
Coordinator

5. COVID-19 Task Force, 2020
Member

6. VTU Coordinator Committee, 2019
Member

7. AICTE Coordinator(UG), 2019
Coordinator

Patent

1. SYNTHESIS OF E-WASTE BASED ON MACHINE LEARNING & ARTIFICIAL INTELLIGENCE AUTONOMOUS MANAGEMENT SYSTEM FOR SMART ENVIRONMENT
Inventor(s): Swamy TN, Ramesha K, Assignee: Swamy TN, Ramesha K
Published: 2021-10-15

Publication

1. Improved Intra Prediction Algorithm for HEVC with Conventional and Convolutional Neural Network Approach

Swamy TN, Ramesha K
International Journal of Mathematical Statistician and Engineering Applications, Volume 71, Year 2022, Pages 272- 280

2. Low Power Intra Prediction Architecture for HEVC Encoder using Deep Learning Approach

Swamy TN, Ramesha K
International Journal of Current Science, Volume 12, Year 2022, Pages 24-31

3. MULTIMEDIA SENTIMENT ANALYSIS ON PUBLIC SOCIAL NETWORK USING NLP

Swamy TN, Lakshmi Janaki

International Journal for Research Trends and Innovation, Volume 7, Year 2022, Pages 825-830

4. **DESIGN AND ASIC IMPLEMENTATION OF FOUR WAY SET-ASSOCIATIVE CACHE MEMORY**

Swamy TN, Nusarath Jahan GB
Sambodhi U GC Care Journal, Volume 44, Year 2021, Pages 202-207

5. **Design and ASIC Implementation of Cache Controller of Four Way Set Associative Cache Memory**

Swamy TN
International Conference on Intelligent Systems, Electrical and Communication Technology, Volume , Year 2021, Pages

6. **Early Cardiac Arrest Detection Using Thresholding Method**

Swamy TN, Korgi Chinmai Shetty
GIS SCIENCE JOURNAL, Volume 8, Year 2021, Pages 727-734

7. **Video and image acquisition challenges to define image resolutions for HEVC**

Mani Laxman Aiyar ., Ramesha Kenchappa .,
International Journal of Advanced Science and Technology, Volume 29, Year 2020, Pages 958-965

8. **PERFORMANCE ANALYSIS OF BRAUN MULTIPLIER USING FULL ADDER**

Swamy TN, Vani K
AICTE Sponsored 1st International E-Conference On "Recent Trends & Development in Information and Communication Engineering, Volume , Year 2020, Pages 228-

9. **Power Efficient Algorithm for High Speed Bi-Directional Transceiver**

Swamy TN
National Conference on Recent Trends in Science, Engineering and Management, Volume , Year 2019, Pages

10. **Raspberry Pi Based Communication System for Deaf Dumb and Blind Person**

Swamy TN, Manish AV
International Journal for Scientific Research & Development|, Volume 7, Year 2019, Pages 1464-1466

11. **An efficient algorithm for intra prediction in HEVC/H.265 standard for 16×16 pixels**

International Conference on Electrical, Electronics, Communication Computer Technologies and Optimization Techniques, ICEECCOT 2017, Volume 2018-January, Year 2018, Pages 226-233

12. **SINGLE CYCLE 64-BIT RISC-V PROCESSOR AND IT'S FPGA PROTOTYPE**

Swamy TN, Pallavi S
Journal of Emerging Technologies and Innovative Research (JETIR) www.jetir.org, Volume 5, Year 2018, Pages 644-650

13. **Design and Implementation of High Speed Bi-directional Transceiver for Low Power Applications**

Swamy TN, Sujanya Kumari T
International Journal on Recent and Innovation Trends in Computing and Communication, Volume 5, Year 2017, Pages 709 – 712

14. A Dynamic Parallel and Pipelined Architecture for Intra Prediction in H.265 Standard

Swamy TN, Ramesha K and Diwakar KR
A Dynamic Parallel and Pipelined Architecture for Intra Prediction in H.265 Standard, Volume 5, Year 2017, Pages 1073-1077

15. Design of High Speed Bi-directional Transceiver for Low Power Applications

Swamy TN
National Conference on Wireless Control and Communication Technologies NCWCT 2015, Volume , Year 2015, Pages

16. A New Technique to Image Splitting using submatrix for real time video streaming

Swamy TN
National Conference on VLSI, Communication and Signal Processing NCVCS-2015, Volume , Year 2015, Pages

17. FPGA Implementation of Efficient Algorithm of Image Water Marking using DWT

Swamy TN
National Conference on VLSI, Signal Processing, Communication and Soft Computing NCVCS-14, Volume , Year 2014, Pages

18. A New Technique to Digital Image Watermarking Using DWT for Real Time Applications

Swamy TN, Ramesha K and Cyril Prasanna Raj
Int. Journal of Engineering Research and Applications, Volume 4, Year 2014, Pages 102-107

19. Data Acquisition system based on FPGA

Swamy TN, Rashmi KM
International Journal of Engineering Research and Applications, Volume 3, Year 2013, Pages 1504-1509

20. FPGA Implementation Of Efficient Algorithm Of Image Splitting For Video Streaming Data

TN, Swamy and KM, Rashmi and Raj, P Cyril Prasanna and Pinjare SL

21. A Generic Standalone Design Approach to Embedded Hardware Development

Swamy TN, Pranav Jayaram
International Journal of Advances in Scientific Research and Engineering (IJASRE), Volume 5, Pages 41-48