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Expertise

Electronics and Communication Engineering

Date of Joining: 12.10.1991 Date of Birth: 02.10.1968 Qualification: B.E., MTech, PhD Presently working as Professor in Dept. of ECE, Dr. Ambedkar Institute of Technology, Bangalore Areas of interest include Digital Spread Spectrum Communication Systems, Cryptography and Network Security and Digital Signal Processing. Research Interests include Chaos Based DS-CDMA Communications, Cryptographic Algorithms and Protocols: Design, Analysis and Testing, Information Hiding, Network Steganography and

Work experience

1. Dr Ambedkar Institute of Technology, Bengaluru 1991 — Present

Professor
Bengaluru

Education

1. PhD - 2013

DR. MGR Educational and Research Institute University, Chennai

Research Project

Multimedia Security Based on Non-Linear Stream Cipher

Role: Principal Investigator
Year 2023, Amount 1500000

Membership In Professional Bodies

1. IEEE, 2022
Yearly
2. C.S.T.A., 2021
Permanent
3. S.I.E., 2012
Permanent
4. I.A.C.S.I.T., 2009
Permanent
5. A.C.E.E.E., 2009
Permanent
6. I.S.A.R., 2007
Permanent
7. I.A.E.N.G., 2007
Permanent
8. C.R.S.I., 2006
Permanent
9. I.S.T.E., 1993
Permanent

Membership In Committees

1. National Conference on “Digital Transformation and Challenges”

organized by Dept. of ETE, RVCE, Bangalore, 2022
Program Committee Member

2. International Journal of Network Security, 2020
External Reviewer
3. IEEE Third International Conference on "Multimedia Processing, Communications and Information Technology" - MPCIT 2020, organized by JNNCE, Shimoga, 2020
Session Chair and External Reviewer
4. Third National Conference on Computational Control Systems and Optimization (CCSO-2015) held at Dr. Ambedkar Institute of Technology, Bangalore - 560056, 2015
Session Chair
5. National Conference on VLSI, Communication and Signal Processing held at Rajarajeswari College of Engineering, Bangalore, 2015
Session Chair
6. Sixth International Conference on Adhoc, Sensor and Ubiquitous Computing, Dubai, 2015
Program Committee Member
7. Seventh International Conference on Wireless and Mobile Networks, Sydney, Australia, 2015
Program Committee Member
8. Second National Conference on Wireless Control & Communication Technologies (NCWCT-2014) held at Dr. Ambedkar Institute of Technology, Bangalore., 2014
Session Chair
9. The Fourth International Conference on Peer to peer Networks and Trust Management, Chennai, India, 2014
Program Committee Member
10. International Conference on Innovation in Engineering and Technology held at Vijaya Vittala Institute of Technology, Bangalore, 2014
Session Chair
11. CHAOS – 2013, Yeditepe University, Istanbul, Turkey, 2013
Session Chair
12. 4th International Conference, CNSA 2011, Chennai, India, 2011
Program Committee Member

Patent

- 1. Methods for generating Highly Random Sequences over Finite Fields for FHSS (Frequency Hopping Spread Spectrum) Systems**
Inventor(s): Dr. Mahalinga V. Mandi, Dr. K.N. Hari Bhat, Dr. Ramesh S, Assignee: Dr. Ambedkar Institute of Technology
Published: 2018-12-21
- 2. A portable device to measure blood pressure, heart rate, body temperature and expiratory flow rate**
Inventor(s): Dr. M V Mandi, Paritosh Tripathi, Ramya A S, Shreevidya S, Swathi Sinha, Varun Patil, Assignee: Dr. Ambedkar Institute of Technology
Published: 0000-00-00
- 3. 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
- 4. Development of Image Processing based Fruit Spoiled Detection System**
Inventor(s): Dr.S.Shajun Nisha, Assignee:
Published: 2021-03-12
- 5. Intelligent Headlight Brightness Auto-Adjustment System for Vehicle**
Inventor(s): Dr. Neeraj Kumar Shukla, Joseph Godfrey A, Dr. Kamalakkannan Adhisekar, Dr. Prasanth Kumar Mallipudi, S.V. Ramanan, Avinash Dattatray Chavan, M. K. Mariam Bee, Dr. Mahalinga V. Mandi, Assignee: Dr. Neeraj Kumar Shukla, Joseph Godfrey A, Dr. Kamalakkannan Adhisekar, Dr. Prasanth Kumar Mallipudi, S.V. Ramanan, Avinash Dattatray Chavan, M. K. Mariam Bee, Dr. Mahalinga V. Mandi
Published: 2022-06-10

Publication

- 1. Effective Audio Encryption Using Pseudo Noise Generation Architecture**
Arpita B.K.;Mandi M.V.
Journal of Pharmaceutical Negative Results, Volume 13, Year 2022, Pages 1085-1097
- 2. FPGA Implementation of Efficient CDF 9/7 Wavelet Transform**
Arpitha R. S., Mahalinga V. Mandi
Design Engineering, Volume 2021, Year 2021, Pages 12752 - 12765
- 3. Block-Chain Technology for Securing and Managing the Database in Oil**

and Gas Industry

Swapna B. Savanur, Mahalinga V Mandi

Annals of the Romanian Society for Cell Biology, Volume 25, Year 2021, Pages 12475 - 12486

4. Graph Based Chaotic Stream Cipher

Mahalinga V Mandi

International Conference of International Academy of Physical Sciences , Volume , Year 2021, Pages

5. Breast Cancer Classification using Python Programming in Machine Learning

Shruthi S, Binu Xavier F, Ravi Kumar A, Yeshwanth S, Dr. Mahalinga V Mandi

International Journal of Engineering Research & Technology , Volume 9, Year 2020, Pages 827-830

6. Performance evaluation of chaotic spreading codes in massive MIMO OFDM system

K Chidananda Murthy, Mahalinga V Mandi, R Murali

Indian Journal of Science and Technology , Volume 13, Year 2020, Pages 4374 - 4385

7. Generation of binary sequences of length 10230 bits having better odd and even correlation with large linear complexity for use in global navigation satellites systems (GNSS) applications

Dharmappa D.;Mandi M.V.;Siddaiah R.

Mathematical Modelling of Engineering Problems, Volume 7, Year 2020, Pages 94-102

8. ASIC Implementation of Present Cipher for IoT Application

Anitha Kumari S and Mahalinga V. Mandi

Journal of VLSI Design and Signal Processing, Volume 5, Year 2019, Pages 12 - 18

9. Implementation of Present Cipher on FPGA for IoT Applications

Anitha Kumari S and Mahalinga V. Mandi

International Journal of Engineering Research & Technology, Volume 8, Year 2019, Pages 29 - 29

10. Consumption of Ion Exchange Resin Waste in Concrete

Dasarathy. A K., M.Tamil Selvi, D.Leela, S.Ponkumarllango

International Journal of Recent Technology and Engineering (IJRTE), Volume 8, Year 2019, Pages 3

11. Binary sequences having good correlation and large linear complexity properties for satellite navigation applications

Dharmappa D.;Mandi M.;Ramesh S.

International Journal of Recent Technology and Engineering, Volume 7, Year 2019, Pages 61-67

12. Robot Automation Framework for ETME Card using UP

Chanadana H. P., Mahalinga V. Mandi

Journal of Emerging Technologies and Innovation Research , Volume 5, Year 2018, Pages 2349-5162

13. 5G Espresso Algorithm for Image Encryption

Meghana S. Ramesh, Komala Priya T. M., Monisha G. and Dr. Mahalinga V. Mandi

International Journal for Scientific Research & Development, Volume 6, Year 2018, Pages 1877 - 1880

14. **Analysis of binary sequences with better correlation performance compared to gold code under different doppler conditions for GNSS applications**
Dharmappa D.;Mandi M.V.;Ramesh S.
2018 3rd IEEE International Conference on Recent Trends in Electronics, Information and Communication Technology, RTEICT 2018 - Proceedings, Volume , Year 2018, Pages 209-215
15. **Generation of Binary Sequences Having Better Odd Correlation and Linear Complexity Property Compared to Gold Codes for use in Global Navigation Satellites Systems (GNSS) Applications**
Dharmappa D.;Mandi M.V.;Ramesh S.
International Conference on Current Trends in Computer, Electrical, Electronics and Communication, CTCEEC 2017, Volume , Year 2018, Pages 155-160
16. **Secure Transmission of Data using Rabbit Algorithm**
Shwetha S Tadkal and Mahalinga V. Mandi
International Research Journal of Engineering and Technology , Volume 4, Year 2017, Pages 3079 – 3083
17. **Automatic Control of Car using Eye Blink, Air Blow & Mems Sensor and Home Security System using IR Sensors**
Kiran O. S and Mahalinga V. Mandi
Journal of Advances in Electrical Devices, Volume 1, Year 2016, Pages 27 - 37
18. **A Survey on Binary Generation Methods for Global Navigation Satellite Systems (GNSS)**
Dileep Dharmappa, Mahalinga V. Mandi and S. Ramesh
Far East Journal of Electronics and Communication, Volume 16, Year 2016, Pages 775-788
19. **A survey on binary sequence generation methods for global navigation satellite systems (GNSS)**
Dharmappa D.;Mandi M.V.;Ramesh S.
Far East Journal of Electronics and Communications, Volume 16, Year 2016, Pages 775-788
20. **On the suitability of nanofluid as working fluid in Natural Circulation Loops**
K Kiran Kumar, V P Chandra Mohan, Abdul Razzack, B Ramesh Babu and Praveena Devi N
International Journal of Applied Engineering and Research, Volume Vol.10,No.8, Year 2015, Pages 1-6
21. **Terrestrial Environment Monitoring System using Zigbee and PIC**
Sushrut Kaul, Mahalinga V. Mandi
International Journal of Scientific Engineering and Technology Research , Volume 4, Year 2015, Pages 10194-10199
22. **Performance Evaluation of DS-CDMA System Using Chaotic Binary Sequences**
Mahalinga V. Mandi, K. N. Haribhat, R. Murali
Computer Applications: An International Journal , Volume 2, Year 2015, Pages 37 - 52
23. **Biometric Based Attendance Management System Using Wi-Fi**
8. Mahalinga V. Mandi, Ashwini K.S., Chaitra H.S., Kavitha R, Kavitha U

24. **Deriving binary sequences from chaotic sequences having good cross correlation properties**
Mandi M.V.;Bhat K.N.H.;Murali R.
Proceedings - 2013 International Conference on Machine Intelligence Research and Advancement, ICMIRA 2013, Volume , Year 2014, Pages 29-36
25. **Efficient Network on Cache for Low Power Embedded Processors**
Mahalinga V. Mandi and Pavan Kumar T,
International Journal of VLSI and Embedded Systems , Volume 4, Year 2013, Pages 557 - 561
26. **Chaos based water marked image encryption**
Mandi M.V.;Dileep D.
CHAOS 2013 - 6th Chaotic Modeling and Simulation International Conference, Proceedings, Volume , Year 2013, Pages 389-398
27. **Net list level IP protection by watermarking for LUT based FPGA's**
Mahalinga V Mandi, Ramesh S and Sumathi V. K
International Journal of Computer Applications & Information Technology, Volume 1, Year 2012, Pages 10 - 16
28. **Implementation of Chaos Based Secured Communication System on 64x+ DSP**
Mahalinga V. Mandi, Ramesh S, Shivaputra, Dileep D
International Journal of Computer Network and Security (IJCNS), Volume 2, Year 2010, Pages 42-46
29. **Generation of Large Set of Binary Sequences derived from Chaotic Functions with Large Linear Complexity and Good Cross Correlation Properties**
Mahalinga V. Mandi, K. N. Haribhat, R. Murali
International Journal of Advanced Engineering and Applications (IJAEA), Volume 3, Year 2010, Pages 313-322
30. **Generation of Large Set of Binary Sequences derived from Chaotic Functions defined over Finite Field GF(28) with Good Linear Complexity and Pairwise Cross Correlation Properties**
Mahalinga V. Mandi, K. N. Haribhat, R. Murali
International Journal of Distributed and Parallel systems (IJDPS), Volume 1, Year 2010, Pages 93-112
31. **An FPGA Implementation of a Pseudo-Chaotic Direct Sequence Spread Spectrum (DS-SS) Communication System**
Mahalinga V. Mandi, Ramesh S, Santosh Kulal, Santosh Kumar S, Dileep D, Yajnesh Padiyar
International Journal of Non-Linear Science (IJNS), Volume 8, Year 2009, Pages 387-401
32. **Chaotic functions for generating binary sequences and their suitability in Multiple Access**
Mandi M.V.;Murali R.;Haribhat K.N.
International Conference on Communication Technology Proceedings, ICCT, Volume , Year 2006

33. Water Marked Image Encryption Using Logistic Map

Mahalinga V. Mandi, Ramesh S, Shivaputra, Dileep D

International Journal of Computer Network and Security (IJCNS), Volume 2, Pages 91-95