2016 Conference on Emerging Devices and Smart Systems (ICEDSS 2016)

Namakkal, India
4-5 March 2016

IEEE Catalog Number: CFP16D81-POD
ISBN: 978-1-5090-2416-2

Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc
All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

******This publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number: CFP16D81-POD
ISBN (Print-On-Demand): 978-1-5090-2416-2
ISBN (Online): 978-1-5090-2415-5

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

S.NO	TITLE	Page No
1.	**Analytical Modeling of Nanoscale Quad Gate MOSFET Including Quantum Mechanical Effects** DR.N.B.Balamurugan, M.Surya abirami, K.Sowmya	1
2.	**Numerical Modeling of High Sensitivity Nanoscale FinFET Biosensor for Health Care Applications** R.Ramesh, K.Kannan, M.Madheswaran	9
3.	**A Detailed Capacitive Analysis of Symmetric and Asymmetric Dual-k Fin FETs for Improved Circuit Delay Metrics** Pankaj Kumar Pal, Brajesh Kumar Kaushik, and Sudeb Dasgupta	13
4.	**A Review of Analytical Thermal Noise Model** Savitesh Madhulika Sharma, Student Member, IEEE, S. Dasgupta, Member, IEEE, M.V. Kartikeyan, Senior Member, IEEE	19
5.	**A 4 bit Quantum Voltage Comparator based Flash ADC for Low Noise Applications** Triveni Kalita, basab das	24
6.	**UV photodetector based on graphene-GaN Schottky junction in MESFET** Jaya V. Gaitonde and R. B. Lohani	30
7.	**Parasitic Capacitances of Dual-K Spacer FinFET** Shilpa Bisnoi, and Sudeb Dasgupta	34
8.	**Comparative Analysis of Adiabatic Logics in Sub-threshold Regime for Ultra-Low Power application** Manash Chanda, Jeet Basak, Diptansu Sinha, Tanushree Ganguli and Chandan K. Sarkar	37
9.	**Design and Analysis of Adiabatic Logic in Sub-threshold Regime for Ultra Low Power Application** Manash Chanda, Diptansu Sinha, Jeet Basak, Tanushree Ganguli and Chandan K. Sarkar	42
10.	**Process Simulation of Junctionless Transistor for low power Applications** Altrin Sharma V. J, Dr. D. Nirmal ,Charles Pravin J.	47
11.	**Security of Grayscale Images By Vss With Novel Method Of Bit-Plane Slicing** Ms. Aditi Y. Patil,Ms. Joyce J. Alexander,Ms. Shital B. Satpute	53

12. **Authentication of Grayscale Forensic Image using Visual Secret Sharing**
Ms. Akshata M. Joshi,Ms. Dhanashree M. Jadhav,Ms. Nida A. Kazi Mr. Amol N. Suryawanshi,Mrs. Jayashree Katti 56

13. **Design and Analysis of Phase Locked Loop for Low Power Wireless Applications**
Akshay. A, Divya Kiran, Chandramohan. P, Punithavathi Duraiswamy 61

14. **Design of High Speed FFT Algorithm For OFDM Technique**
Arun.C.A, Dr.P.Prakasam 66

15. **Significance of Scalability for On-Demand Routing Protocols in MANETs**
T. Prasannavenkatesan,T. Menakadevi 76

16. **Optimized Method For Compressive Sensing In Mobile Environment**
Sheetal G. Jagtap, Mandar K. Bivalkar 83

17 **Design of secure communication protocol for Smart Grid**
Mr.Sridhar H.S,Dr. M. Siddappa,Dr.G.C.Bhanu Prakash 88

18. **A Novel Fuzzy Based Pitch Angle Control Scheme And SVPWM Based Active And Reactive Power Flow Control Of A Permanent Magnet Generator Based Grid Tied Wind Energy Conversion System.**
Deepa C Nambiar,C.Parag Jose 94

19. **Speed Sensorless Induction Motor Drive With PCC In Conveyor Systems**
Shamna.U.Raj,Tintu George .T 97

20. **Single Stage Solar Power Conversion With Multimode Operation**
Aparna Hari ,Prabin James 103

21. **Smart Charging Of PV-Wind Hybrid Integrated PHEVs Based On Dc Link Voltage Sensing**
Chaithanya E, Jyothsna P 108

22. **Sliding-Mode And Fuzzy-Logic Adaptation Mechanism For MRAS Sensorless Vector Controlled Induction Motor With Temperature Monitoring**
Lipina Gopal M, Teena George 117

23. **Solar Powered Variable Speed Power Factor Corrected BLDC Motor Drive**
Muhammed Rajees.P.P,Jobin Rocky. 125

24. **Zeta converter fed BLDC motor for power factor correction and speed Control**.
S. Naga Pavithra, Dr. S. Umamaheswari 133

25. **Comparitvie analysis of D flips flop design using different CMOS techniques with True Signal Phase Clocking and Dual Edge TSPC**
Sandeep Singh, Tarandip Singh. 140

26. **Genetic Algorithm Based Self Tuning Regulator for Ball and Hoop System**
Sreekanth P. Aparna Hari 147

27. **Comparison of Contrast Enhancement Techniques for Medical Image**
Randeep Kaur, Sandeep Kaur 155

28. **An Automated Method of Segmentation for Tumor Detection by Neutrosophic Sets and Morphological Operations Using MR Images**
gursangeet kaur, hardeep kaur 163

29. **Identification of Leaf Diseases in Pepper Plants Using Soft Computing Techniques**
Jobin Francis, Anto Sahaya Dhas D, Anoop B K 168

30. **Identification of Most Preferential Denoising Method for Mammogram Images**
V.Vijikala, D.Anto Sahaya Dhas 173

31. **Challenges of Low Power SRAM design in Nanoscale Era**
Ruchi and Dr. S. Dasgupta 179