2011 Recent Trends in Computer Science

2nd International Conference on Advances in Computer Science (ACS 2011) (Held at the 2nd International Joint Conference on Advances in Engineering and Technology-AET 2011)

Computer Science Series Volume 2

Noida, India
20-21 December 2011

Editors:

Yogesh Chaba **Tanmoy Maity**
Hoga Saragih

ISBN: 978-1-62993-907-0

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571

Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2011) by The Institute of Doctors Engineers and Scientists (IDES)
All rights reserved.

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact IDES-CPS
at the address below.

IDES-CPS
Prins Hendriklaan 19
1075 AZ Amsterdam, Netherlands

Phone: +31-6855 84465

cps.info@theides.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

Table of Contents

1. Simulation of Adaptive Noise Canceller for an ECGsignal Analysis 1-4
Dhubkarya D C, Aastha Katara and Raj Kumar Thenua

2. Design of Optimal Linear Phase FIR High Pass Filterusing Improved Particle Swarm Optimization 5-9
Sangeeta Mandal, Ghoshal S P, Purna Mukherjee, DyutiSengupta, RajibKar and Durbadal Mandal

3. Modelling of Crosstalk and Delay for DistributedRLCG On-Chip Interconnects For Ramp Input 10-14
Maheshwari V, Gupta S, Kar R, Mandal D and Bhattacharjee A K

4. Application of Bio-Inspired Optimization Techniquefor Finding the Optimal set of Concentric CircularAntenna Array with Central Element Feeding 15-19
DurbadalMandal, Bipul Goswami, RajibKar, Sakti Prasad Ghoshal and Anup Kr Bhattacharjee

5. A Novel Method for Detection of ArchitecturalDistortion in Mammogram 20-24
AmitKamra, Sukhwinder Singh and Jain V K

6. Performance Measures of Hierarchical CellularNetworks on Queuing Handoff Calls 25-29
Kashish Parwani and Purohit G N

7. An Information Maximization approach of ICAfor Gender Classification 30-35
Sunita Kumari and Banshidhar Majhi

8. Detection of suspected nodes in MANET 36-41
Suman S Chandanan, Brajesh Patel and Amit Kumar Chandanan

9. Automatic Relative Radiometric Normalization for Change Detection of Satellite Imagery 42-45
Munmun Baisantry,Negi D S and Manocha O P

10. Evaluation of Performance Characteristics of Polynomial Based And Lattice Based NRTU Cryptosystem 46-49
Rakesh Nayak, Jayaram Pradhan and Sastry C V

11. A Secure Account-Based Mobile Payment Protocol with Public Key Cryptography 50-54
Vorugunti Chandra Sekhar and Mrudula Sarvabhatla

12.Text-Image Separation in Document Images Using Boundary/Perimeter Detection 55-59
Priti P. Rege and Chanchal A.Chandrakar

13.Rotation Scale Invariant Semi Blind Biometri Watermarking Technique for Colour Image 60-65
Vandana Inamdar , Priti Rege and Chandrama Thorat

14. Secure Scan Design Using Redundant Scan Register 66-71
Sabyasasachee Banerjee and Pranay Kumar Saha

15. Depth-Image-based Facial Analysis between Age Groups and Recognition of 3D Faces 72-76
Chiranji Lal Chowdhary, Richa Dhanuka, Arpana Kumari and Chandra Mouli P V S S R

16. On-line Fault diagnosis of Arbitrary Connected Networks 77-80
Arunanshu Mahapatro and Pabitra Mohan Khilar

17. Comparison of Normal and Ventricular Tachyarrhythmic Electrocardiograms using Scatter Plots 81-83
Shreya Das and Monisha Chakraborty

18. Detection of Carotid Artery from Pre-Processed Magnetic Resonance Angiogram 84-88
Sarbani Datta and Monisha Chakraborty

19. Blur Parameter Identification using Support Vector Machine 89-92
Ratnakar Dash, Pankaj Kumar Sa and Banshidhar Majhi

20. Performance evaluation of ad-hoc network routing protocols using ns2 simulation 93-98
Pratik Gite and Manish Sharma

21. Analysis of GPSR and its Relevant Attacks in Wireless Sensor Networks 99-102
Manish Sharma, Sunil Kumar Panda, Rahul Ramteke and Sanjay Kumar Jena

22. Simple and Fast Implementation of Segmented Matrix Algorithm for Haar DWT on a Low Cost GPU 103-106
Madeena Sultana and Nurul Muntasir Mamun

23. Analysis and Simulation of Sub-threshold LeakageCurrent in P3 SRAM Cell at DSM Technology for Multimedia Applications 107-109
Singh R K , Manisha Pattanaik , Neeraj Kr Shukla , Birla S ,Geetanjali Dhankar and Pulkit Bhatnagar

24. A Least Square Approach ToAnlayze Usage Data For Effective Web Personalization 110-114
Patil S S

25. Object Detection and tracking in Video Sequences 115-120
Manisha Chate , Amudha S and Vinaya Gohokar

26. Shift Invariant Ear Feature Extraction using Dual Tree Complex Wavelet Transform for Ear Recognition 121-126
Rajesh M Bodade and Maj Jayesh Nayyar

27. Homographic Word Disambiguation in Web Searching 127-129
Rekha Jain and Purohit G N

28. Ensuring Security of Data by Embedding it into an Image by Targeting its Random Pixels 130-134
Sabyasachi Samanta, Saurabh Dutta and Gautam Sanyal

29. Elucidation of the Cloud lock-in 135-138
Geeta Sharma

30. Dynamic Discovery and Consumption of Local Services in a Decentralized Registry Based WebServices Environment 139-143
Melwyn D'Souza and Ananthanarayana V S

31. Experience Management for Process Improvement: Prescriptions from Literature and Evidence from Indian Software Engineering Environment 144-146
Neeraj Sharma, Kawaljeet Singh and Goyal D P

32. Semantic Web based Adaptive Intelligent Tutoring System 147-152
Suraiya Jabin and Mustafa K

33. Optic Disc Detection and Blood Vessel Segmentation in Color Retinal Images 153-157
Prakash N B and Selvathi D

34. Regress Analysis of Requirement Coverage to Minimize Test Suite 158-160
Rajat Sheel Jain and Amit Gupta

35. Designing Implementation Algorithm for Intrusion Detection in Computer Network 161-165
Mohana Prakash T A , Nivedha S , Saravanakumar S and Naveena Davay A

36. KidzFrame: Supporting Awareness in the Daycare 166-171
Vassilis Javed Khan, Linda Bremmers, Kai Fu, Shenando Stals, Kevin Swelsen And Wijnand IJsselsteijn