2013 IEEE International Conference on Signal Processing, Computing and Control (2013 IEEE ISPCC)

26- 28 September 2013

Detailed Technical Program Schedule

Thursday, September 26, 2013

Inaugural Session

1 Session Name: Inaugural Session

1.1 Session Time: 9:30 am - 10:00 am
1.2 Venue: LT – 3

Session No.: 1A

2 Session Name: Signal Processing 1

2.1 Session Time: 10:30 am - 11:30 am
2.2 Venue: CR-A

2.3 List of Papers

2.3.1 An Efficient Compression Algorithm and a Novel File Format for Satellite Vibration Test Data

- Nagendra Bellur, Dr. N K Misra, and Dr. A M Khan.

2.3.2 Yarn Parameterization Based on Image Processing

- Subhasish Roy, Anindita Sengupta, Surajit Sengupta and Raktim Maity.

2.3.3 Coherent Detection of Turbo Coded OFDM Signals Transmitted through Frequency Selective Rayleigh Fading Channels

- Kasturi Vasudevan.

2.3.4 Noise Removal in Single Channel Hindi Speech Patterns by Using Binary Mask Thresholding Function in Various Mother Wavelets

- Sachin Singh, Manoj Tripathy and R. S. Anand.

Session No.: 1B

3 Session Name: Networks & Communication 1

3.1 Session Time: 10:30 am - 11:30 am

3.2 Venue: CR-B

3.3 List of Papers

3.3.1 Clustering with Multiple Receiving Antennas in Downlink FDD CoMP Systems

- Paolo Baracca, Federico Boccardi and Nevio Benvenuto.

3.3.2 RFID Applications to the Optimization of Discrete Manufacturing Process

- Cesar Da Costa, and Lais Reis de Oliveira.

3.3.3 Two Way LMS Coding for Adaptive Channel Estimation Over Fast Frequency Selective Channel

- Venkat S, Srinivas Karedla, Dr. Ch. Santhi Rani, and V. V. Rama Krishna.

3.3.4 Investigation of Switch and Stay Combiner Performance Over 'Independent' and 'i.i.d.' K Fading Channels

- Suyash Srivastava, Pradeep Ummiti, Maleyur Raju Shreyas, Gowtham N R, and Manoj B R.

Session No.: 1C

4   Session Name: Control and Automation 1

4.1 Session Time: 10:30 am - 11:30 am

4.2 Venue: CR-C

4.3 List of Papers

4.3.1   Application Performance Monitoring and Prediction

- Meenakshi Panwar, Mandar Sahasrabudhe and Sagar Chaudhari.

4.3.2   Optimal Adaptive Sliding Mode Controller for Linear Uncertain Systems

- Madhulika Das, and Chitralekha Mahanta.

4.3.3   Spectral Analysis to Detect Mixed Eccentricity Fault in Saturated Squirrel Cage Induction Motor

- Chaouch Abdellah, and Bendiabdellah Azeddine.

Keynote Session

5   Session Name: Keynote 1 (PROF. JOHN SORAGHAN)

5.1 Session Time: 11:30 am to 1:00 pm

5.2 Venue: LT – 3

Workshop Session

6   Session Name: Workshop on Amateur Radio Part – 1 (Mr. Miroslav Skoric)

6.1 Session Time: 2:30 pm to 3:30 pm

6.2 Venue: LT – 3

Session No.: 2A

7   Session Name: VLSI & Embedded Computing 1

7.1 Session Time: 4:00 pm - 5:00 pm

7.2 Venue: CR-A

7.3 List of Papers

7.3.1   Compact Models for Double Gate Hetero Gate Dielectric Nano Scale Tunnel FET

- Brinda Bhowmick, S. Baishya, and C. Joishy.

7.3.2   Clock Distribution Networks- A Case Study Using Multi VDD and Multi Threshold Level Converters

- Shubham Paliwal, Yogesh Kumar, Praveen Sahu and S. K. Balasubramanian.

7.3.3   System Level Hardware Testing of A High Speed MAP Decoder Implemented on FPGA

- Rahul Shrestha, and Roy Paily.

7.3.4   System on Chip Approach for Onboard Computer

- Shubham Agarwal, Rajiv Bhatia, N Padmavathi, S Sudhakar, and S Udupa.

Session No.: 2B

8 Session Name: Artificial Intelligence and Neural Networks 1

8.1 Session Time: 4:00 pm - 5:00 pm

8.2 Venue: CR-B

8.3 List of Papers

8.3.1 An Approach for Prioritizing Supplier Selection Criteria Through Consensus Building using Analytic Hierarchy Process and Fuzzy Set theory

- Arpan Kar

8.3.2 Multiple Classifiers Systems with Granular Neural Network

- Saroj K. Meher and D. Arun Kumar

8.3.3 Short – Term Prediction of Forbush Decrease Indices with Adaptive Neuro – Fuzzy Inference Systems

- Sankar Patra, Subhash Panja and Koushik Ghosh

8.3.4 Fractional Order Modeling of Continuous High – Order MIMO Systems

- Sunil Kumar Mishra and Dinesh Chandra.

Session No.: 2C

9   Session Name: Signal Processing 2

9.1 Session Time: 4:00 pm - 5:00 pm

9.2 Venue: CR-C

9.3 List of Papers

9.3.1   Learning Based Single Frame Super – Resolution Using Lorentzian Error Norm and Gabor Filter

- Jignasha Valvi and Chirag Paunwala.

9.3.2   Real Time Object Tracking Using Color – Based Probability Matching

- Deval Jansari, Shankar Parmar, and Geetali Saha.

9.3.3   Stacked Cylindrical Dielectric Resonator Antenna with Metamaterial as a Superstrate for Enhancing the Bandwidth and Gain

- Bhagirath Sahu, Mayank Aggarwal, Rajesh Singh and Pankaj Tripathi.

9.3.4   A Robust Motion Compensation Algorithm for Isar Imaging of Sea – Surface Targets by Airborne Radar

- Bibhuti Mohapatra, Vinod K Jaisaval, and Suchith Rajagopal.

Session No.: 2D

10 Session Name: Signal Processing 3

10.1   Session Time: 4:00 pm - 5:00 pm

10.2   Venue: CR-D

10.3   List of Papers

10.3.1 Geometric Feature Based Recognition of Facial Expressions Using ANN

- Parna Kundu and Ravindra Singh.

10.3.2 Improved Language Identification using Sampling Rate Compensation and Gender based Language Models for Indian languages

- Deepak Joshi and Shiv Dutt Joshi.

10.3.3 An Efficient Pilot Pattern Design for Channel Estimation in OFDM Systems

- Darshan Adakane and Kasturi Vasudevan.

10.3.4 Sparse De – Convolution of Space Charge Signal in PEA Method

- Ashish Gupta and Chakradhar Reddy Chandupatla.

Friday, September 27, 2013

Session No.: 3A

11 Session Name: Signal Processing 4

11.1 Session Time: 9:30 am - 10:30 am

11.2 Venue: CR-A

11.3 List of Papers

11.3.1 A Hybrid Fourier/Wavelet Technique for Improved ECG Signal Approximation

- Roopak R. Tamboli, D. S. Srikanth Reddy, and Soumya Jana.

11.3.2 Wavelet Entropy Based EEG Analysis for Seizure Detection

- Yatindra Kumar, M.L Dewal, and R. S Anand.

11.3.3 Enhancement of Speech Signals Corrupted by Impulsive Noise Using Wavelets and Adaptive Median Filtering

- Prateek Swamy, Uttara Kumari and Rohini Hallikar.

11.3.4 Texture Analysis Based Segmentation and Classification of Oral Cancer Lesions in Color Images Using ANN

- Belvin Thomas, Dr. Vinod Kumar, and Dr. Sunil Saini.

Session No.: 3B

12 Session Name: Control and Automation 2

12.1 Session Time: 9:30 am - 10:30 am

12.2 Venue: CR-B

12.3 List of Papers

12.3.1 Highly Sensitive C – Shaped Load Link for Measuring Very Small Loads

- Surendra M Jain, Mahboob Ahmed, Deepak Kumar and Alok Jain.

12.3.2 Design and Optimization of Temperature Controller for High Pressure Rated Modified CSTR System

- Thiruppathi Keppayan, Kirubagaran R., Lakshmi Ponnusamy, and Atmanand M. A.

12.3.3 Under Frequency Load Shedding for Power Systems with High Variability and Uncertainty

- Tharangika Bambaravanage, Asanka S Rodrigo, Lidula N. Widanagama Arachchige and Sisil Kumarawadu.

Session No.: 3C

13 Session Name: Networks & Communication 2

13.1   Session Time: 9:30 am - 10:30 am

13.2   Venue: CR-C

13.3   List of Papers

13.3.1 Hybrid Security Classification Approach to Attacks in WiMAX

- Mohammad Hossein Ahmadzadegan and Mohammed Elmusrati.

13.3.2 Compressive Sensing Techniques Applied to Narrowband Power Line Communication

- Javier Matanza, Sadot Alexandres and Carlos Rodriguez – Morcillo.

13.3.3 Green Cooperative Communication Techniques for Intelligent Transportation System

- Vinod Mogadala, Swaminathan Ramabadran and Rajarshi Roy.

13.3.4 Sidelobe Suppression Using Differential Coding an OFDM Cognitive Radios

- Ravinder Randhawa, and Anshul Tyagi.

Keynote Session

14   Session Name: Keynote 2 (PROF. RAJENDAR BAHL)

14.1   Session Time: 11:00 am to 12:00 pm

17.2   Venue: LT – 3

Session No.: 4A

15 Session Name: Networks & Communication 3

15.1 Session Time: 12:00 noon - 1:00 pm

15.2 Venue: CR-A

15.3 List of Papers

15.3.1 ICI Analysis for FRFT – OFDM Systems in Doubly Selective Fading Channels

- Sandeep Kumar Arya and Ashutosh Singh.

15.3.2 Role of Middleware to Fulfill Non Functional Requirements (Reliability And QOS) in Multi Session Pervasive Computing Application

- Ajit Tewari, Shailendra Tripathi, Ravi P Gorthi, and Vikas Bajpai.

15.3.3 Performance Analysis of Non – Coherent IR – UWB Receivers

- Ranjay Hazra, and Anshul Tyagi.

15.3.4 Efficacy of Power of Two Choices Technique for Data Evacuation Process in Sensor Networks for Post-Disaster Relief Operations

- Chittaranjan Debata and Rajarshi Roy

Session No.: 4B

16 Session Name: VLSI & Embedded Computing 2

16.1 **Session Time: 12:00 noon - 1:00 pm**

16.2 **Venue: CR-B**

16.3 **List of Papers**

16.3.1 A Low – Voltage, Low - Power 4 – Bit BCD Adder, Designed Using the Clock Gated Power Gating, and the DVT Scheme

- Dipankar Saha, Subhramita Basak, Sagar Mukherjee, and C. K. Sarkar.

16.3.2 Triple Well Subthreshold CMOS Logic using Body – Bias Technique

- Vandana Niranjan, Ashwni Kumar and Shail Bala Jain.

16.3.3 Enhanced Reduction of Ground Bounce Noise in Low Leakage CMOS Multiplier with Combinational MTCMOS Circuit

- Bipin Verma, Shyam Akashe and Shyam Singh.

16.3.4 Multiphase Sinusoidal Oscillators using Dual Output CCIIs

- Vijay Dixit, Rajeev Gupta, and Kirat Pal.

Session No.: 4C

17 Session Name: Signal Processing 5

17.1 Session Time: 12:00 noon - 1:00 pm

17.2 Venue: CR-C

17.3 List of Papers

17.3.1 Image Mosaicing Based on Self Adaptive Optical Flow Metric

- Shankar Parmar.

17.3.2 Speech Signal Analysis Using Fourier – Bessel Expansion and Hilbert Transform Separation Algorithm

- Purshottam Singh Rathore, Ajay Boyat, and Brijendra Joshi.

17.3.3 Data Processing of Single Burst Signals from Laser Doppler Velocity Sensors for Turbulent Flow Measurements

- Dishank Upadhyay.

17.3.4 A Novel Uplink Model for Multi – User MIMO – OFDM for IEEE 802.16m

- Shuvabrata Bandopadhaya, Abinash Das and Jibendu Sekhar Roy.

Session No.: 4D

18 Session Name: Control and Automation 3

18.1 Session Time: 12:00 noon - 1:00 pm

18.2 Venue: CR-D

18.3 List of Papers

18.3.1 Robustness Analysis Using Prediction Based Control Strategy for An Industrial Process

- Pradeep Juneja and Amiya Ray.

18.3.2 Design and Implementation of Position Controller for Electro Hydraulic Drives in Turbine Control Systems

- Bhavya Muniraju and Ugra Roy.

18.3.3 Fixed Order Robust H2 Stability Augmentation for Micro Air Vehicle Design and Validation

- Meenakshi M, and M. Seetharama Bhat.

18.3.4 Multiple Sliding Surface Control for Systems with Mismatched Uncertainties

- Mayuresh Patil, Divyesh Ginoya, S B Phadke, and P D Shendge.

Keynote Session

19 Session Name: Keynote 3 (DR. ANDREA CONTI)

19.1 Session Time: 2:30 pm to 3:30 pm

19.2 Venue: LT – 3

Workshop Session

20 Session Name: Workshop on Amateur Radio Part – 2 (Mr. Miroslav Skoric)

20.1 Session Time: 4:00 pm to 5:00 pm

18.2 Venue: LT – A or Corridor

Saturday, September 28, 2013

Session No.: 5A

21 Session Name: Networks & Communication 4

21.1 Session Time: 9:30 am - 10:30 am

21.2 Venue: CR-A

21.3 List of Papers

21.3.1 A Sender Initiate Based Hierarchical Load Balancing Technique for Grid Using Variable Threshold Value

- Neeraj Rathore and Inderveer Chana.

21.3.2 Microstrip Planar Array Antenna with Improved DGS Structure for Multiband Operation

- Shikha Khanna, Paras Chawla and Rajesh Khanna.

21.3.3 Hierarchical Cluster Based Routing Protocol with High Throughput for Wireless Sensor Networks

- Tripti Singh, Neha Gupta, and jasmine Minj.

21.3.4 VillageComm : A Mobile Network Architecture for Rural Areas

- Quamar Niyaz and Ash Mohammad Abbas.

Session No.: 5B

22 Session Name: Artificial Intelligence and Neural Networks 2

22.1 Session Time: 9:30 am - 10:30 am

22.2 Venue: CR-B

22.3 List of Papers

22.3.1 SVRF Approach Towards Object Based Classification of Remotely Sensed Imagery

- Arun P V.

22.3.2 Using Artificial Neural Networks and Analytic Hierarchy Process for the Supplier Selection Problem

- Arpan Kar.

22.3.3 Performance Comparison of LQR and ANFIS Controller for Stabilizing Double Inverted Pendulum Systems

- Vijay Mohan and Narinder Bhangal.

22.3.4 Gait Biometrics: A Vision Based Approach for Cloths Invariant Walking Pattern Classification

- Soumabha Bhowmick, Anup Nandy, Pavan Chakraborty and Gora Chand Nandi.

Session No.: 5C

23 Session Name: Signal Processing 6

23.1 Session Time: 9:30 am - 10:30 am

23.2 Venue: CR-C

23.3 List of Papers

23.3.1 Joint Watermarking and Fingerprinting Approach for Colored Digital Image in Double DCT Domain

- Vineet Mehan, Renu Dhir and Yadwinder Brar.

23.3.2 Digital Image Security Improvement by Integrating Watermarking and Encryption Technique

- Shilpa P Metkar, and Milind V. Lichade.

23.3.3 Realization of CDTA based Frequency Agile Filter

- Neeta Pandey, Rajeshwari Pandey, Richa Choudhary, Aseem Sayal, and Manan Tripathi.

23.3.4 Feature Level Fusion of Face and Fingerprint Modalities Using Gabor Filter Bank

- Madhuri Arunkumar Joshi, Amit Deshmukh and Sheetal Pawar.

Session No.: 5D

24 Session Name: Networks & Communication 5

24.1 Session Time: 9:30 am - 10:30 am

24.2 Venue: CR-D

24.3 List of Papers

24.3.1 Antenna Array Pattern Failure Correction Using Differential Evolution Algorithm

- Narwant Singh Grewal, Manjeet Singh Patterh, and Munish Rattan.

24.3.2 A Medical Node Based Privacy Approaches for Preventing Selective Jamming in Wireless Networks

- Ramisetty Rajeswararao and Alluri Kumar Raju.

24.3.3 A Prediction Based Handover Trigger in Overlapped Heterogeneous Wireless Networks

- Sudesh Pahal, Brahmjit Singh and Ashok Arora.

24.3.4 A Novel Coalesce Model of Game Theory to Enhance QOS of Cell Edge Use

- Khaleel Ahmad, and Gaurav Kumar.

Keynote Session

25 Session Name: Keynote 4 (PROF. SURENDRA PRASAD)

25.1 Session Time: 11:00 am to 12:00 pm

26.2 Venue: LT – 3

Workshop Session

26 Session Name: Workshop on Amateur Radio Part – 3 (Mr. Miroslav Skoric)

26.1 Session Time: 12:00 noon to 1:00 pm

27.2 Venue: LT – A or Corridor

Session No.: 6A

27 Session Name: Control and Automation 4

27.1 Session Time: 2:30 pm - 3:30 pm

27.2 Venue: CR-A

27.3 List of Papers

27.3.1 Synchronization of A Class of Non – Identical Chaotic Systems Via DSC Approach

- Manoj Kumar Shukla, Ankit Bansal, and Bharat Sharma.

27.3.2 Design and Development of Microcontroller Driven, Portable, Low – Cost HVDC Source

- Alampratap Tiwana and Chakradhar Reddy Chandupatla.

27.3.3 Extended-Routh's Stability Approach for the Analysis of Nonlinear Discrete Time Systems

- Basant Kumar Sahu, Madan M. Gupta, and Bidyadhar Subudhi.

27.3.4 Dither Control for Dahl Model Based Hysteresis Compensation

- Saikat Kumar Shome, Mangal Prakash, Arpita Mukherjee and Uma Dutta.

Session No.: 6B

28 Session Name: Signal Processing 7

28.1 Session Time: 2:30 pm - 3:30 pm

28.2 Venue: CR-B

28.3 List of Papers

28.3.1 Comparison of Different Classifiers for Script Identification from Handwritten Document

- Obaidullah Sk, Kaushik Roy and Nibaran Das.

28.3.2 Nonlinear Estimation Using Transformed Gauss – Hermite Quadrature Points

- Abhinoy Singh, and Shovan Bhaumik.

28.3.3 ECG Signal Denoising Based on Empirical Mode Decomposition and Moving Average Filter

- Sonali Jha, Omkar Singh and Ramesh Sunkaria.

28.3.4 Enhanced Data Hiding Method Using DWT Based on Saliency Model

- Chirag Agarwal, Arindam Bose, Somnath Maiti, Nurul Islam and Subir Kumar Sarkar

Session No.: 6C

29 Session Name: Networks & Communication 6

29.1 Session Time: 2:30 pm - 3:30 pm

29.2 Venue: CR-C

29.3 List of Papers

29.3.1 Design of Stub Based Ultra Wideband Filter with Low Insertion Loss

- Robin Kalyan, Sonia Sharma, and Dr. Chandra C. Tripathi.

29.3.2 Vacate on Demand Algorithm in Cognitive Radio Networks

- Mohd Asifuddola, Sharwan Ram, Ghulam Rasool Begh and Gulam Mohd Rather.

29.3.3 Design and Development of a W – Band Crossbar Mixer at 94 GHz

- Sanjeev Shah, Vinay Negi, Sandeep Singh and Saurabh Tomar.

29.3.4 An Access Strategy Selection in Cognitive Radio Networks and QOS Provisioning

- Manish Kumar, Aditya Trivedi and Karri Guru Govind.

Session No.: 6D

30 Session Name: Signal Processing 8

30.1 **Session Time: 2:30 pm - 3:30 pm**

30.2 **Venue: CR-D**

30.3 **List of Papers**

30.3.1 Hybrid Approach for Video Compression Based on Scene Change Detection

- Ankita Chauhan, Rohit R Parmar, Shankar Parmar and Sahida Chauhan.

30.3.2 Acquisition of GPS L1 Signals Using Cooley – Tukey FFT Algorithm

- Venkata Ratnam Devanaboyina, Ashish Pasha, Swathi Puvvada, and Venu Gopala Rap Matcha.

30.3.3 A Blind Audio Watermarking Algorithm Robust Against Synchronization Attacks

- Arashdeep Kaur, Malay Kishore Dutta, K M Soni and Nidhi Taneja.

Valedictory Session

31 Session Name: Valedictory Session

31.1 **Session Time: 3:30 pm**

31.2 **Venue: LT – 3**