IEEE CIRCUITS AND SYSTEMS SOCIETY

CAS

Calcutta Chapter

IEEE COMMUNICATIONS SOCIETY Calcutta Chapter

Brief Report on
IEEE CASCOM POSTGRADUATE STUDENT PAPER CONFERENCE 2010
(IEEE CASCOM PGSPC 2010)

Date: **27 Nov. 2010** (Saturday)
Venue: Dr. K. P. Basu Memorial Hall,
Jadavpur University (JU) Campus, Kolkata – 700032

http://ewh.ieee.org/r10/calcutta/comsoc/
http://ewh.ieee.org/r10/calcutta/cas/

Preamble

The IEEE Communications Society (ComSoc) Calcutta Chapter was formed on Oct. 13, 2003 with Prof. Debasish Saha as the Chairman and the IEEE Circuits And Systems (CAS) Society was formed on July 27, 2007 with Prof. Rabindranath Nandi as the Chairman. Since its inception, both the CAS and ComSoc Chapters have been active and organizing Educational Programs every year to cater the needs of the Local IEEE Members. The Executive Committee of ComSoc and CAS Chapters decided to organize "Post Graduate Student Paper Conference : PGSPC 2010" jointly on Nov. 27, 2010 at Jadavpur University (JU), Kolkata.

Inaugural Session

- 10.00 *AM* – 10.02 *AM* : Welcome Address: Prof. R. Nandi, Chair,
  CAS Chapter, JU

- 10.02 – 10.08 : Address by Chief Guest: Prof. S. Datta, Pro-VC, JU

- 10.08 – 10.14 : Address by Distinguished Guest: Prof. N. Chakraborty,
  Dean, FET-JU

- 10.14 – 10.17 : Address by Section Chair: Prof. K. K. Mallik, JU

- 10.17 – 10.20 : Thanks giving: Dr. S. Mandal, Chair,
  ComSoc Chapter, Wipro

Paper Presentation Sessions

Time	Session Chair/Judge	Paper Presentation Sessions : Track
10.30 am – 11.45 am	Prof. P. K. Banerjee, JU Mr. S. Nath, Wipro	Communication Engg.
12 noon – 1.15 pm	Prof.P.K.Basu, IRPE-CU Prof. Subir K. Sarkar, JU	Electron Devices
2.15 pm - 3.30 pm	Prof.A.K.Mallick, ex-IIT-KGP Prof. P.K.Roy, BESU	Microwave Engg.
3.45 pm – 4.45 pm	Prof.D.K.Basu, CSE-JU Dr. B.Sardar,IT- JU	Computer Sc. & Engg.

A total of 19 Papers were presented in Four different Tracks. The following papers were adjudged as the Best Paper in the respective Tracks:

Track I: Communication Engineering
S. M. Kale and A. Kar, "Propagation Characteristics of FSO Link using Partially Coherent Guassian Optical Beam"

Track II: Electron Devices
B. Syamal, P. Dutta, N. Mohan Kumar and C. K. Sarkar, "Unified Drain Current Model for Independently Driven Double Gate MOSFETS"

Track III: Microwave Engg.
 S. Dhar, A. Das and S. Das, "A Brief Review of Energy Absorption in the Human Body and its effects"

Track IV: Computer Sc. & Engg.
T. Chakraborty and S. Bandyopadhyay, "Authorship Identification using Stylometry Analysis: A CRF Based Approach"

Participation Profile:

A total of 75 Participants (IEEE Members: 25 + Guest: 50) attended the Conference.   The students Participants appreciated the Organizers for this initiative, which gave them an opportunity to present their work in an IEEE Forum.

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Communication Engineering

1. Generation and Performance Analysis of a New Type of Orthogonal Gold Code in CDMA System - *A. Chandra* (BESU, Shibpur) and S. Chattopadhyay*

2. Error Probability of Alamouti Coded MIMO Systems with Multibranch Switch-and -Examine Combining - *G. Maiti* (NIT, Durgapur) and A. Chandra*

3. Analysis of Multidimensional-TCM Based MB-OFDM UWB System with Pilot-Aided Channel Estimation for High-Rate IEEE 802.15.3a WPANs - *M. K. Chowdhury* (HeIT, Kolkata) and C. Bose*

4. Performance Analysis of WiMAX PHY - *S. M. Lalan Chowdhury* (Jadavpur University, Kolkata) and P. Venkateswaran*

5. Effectiveness Of Vocal Tract Information For Automatic Speaker Identification Based On Mel Frequency Cepstral Coefficients - *K.Mohanty* (Jadavpur University, Kolkata), M.Mohanty and S. K. Sanyal*

6. Propagation Characteristics of FSO Link Using Partially Coherent Gaussian Optical Beam - *S. M. Kale* (Jadavpur University, Kolkata) and A. Kar*

7. An Optimized Sensor Node Deployment Scheme for WSN based Flood-Forecasting Systems - *R. Jana* (Jadavpur University, Kolkata), S. K. Mitra, S. Maity, A. Raha and M. K. Naskar*

8. Comparative Study of Discrete radio model and First order radio model for data gathering in Wireless Sensor Network - *S. K. Mitra* (Jadavpur University, Kolkata), J. Banerjee and M. K. Naskar*

Electron Device

9. Unified Drain Current Model for Independently Driven Double Gate MOSFETs – *B. Syamal* (Jadavpur University, Kolkata), C. K. Sarkar, P. Dutta and N. Mohankumar*

Microwave Engineering

10. MLSAR Analysis in a Realistic Grounded Human Head Model for a Dipole Antenna using FDTD method at 930 MHz - *M. F. Ali* (BESU, Shibpur), S. Mondal and S. Ray*

11. A Brief Review of Energy Absorption in the Human Body and its Effects - *S. Dhar* (Jadavpur University, Kolkata), A. Das and S. Das*

12. Design of Lowpass Filter using Defected Microstrip Structure (DMS) - *T. Moyra* (CEM, Kolaghat), L. Murmu, S. Das and S. K. Parui*

13. Performance Studies of Microstrip Patch Antenna with EBG Structure at the Ground Plane - *C. K. Ghosh* (BCREC, Durgapur), S. Datta , A. Mitra and S. K. Parui*

14. Design and Development of a Wearable Antenna for HiperLAN/2 Applications - *S. Sankaralingam* (Jadavpur University, Kolkata) and S. Dhar.*

15. Design and Development of Microstrip Directional Coupler – *B. C. Mandi* (Jadavpur University, Kolkata)*

Computer Sc. and Engineering

16. Text Extraction and Segmentation from Multiskewed Business Card Images for Mobile Devices - *A. F. Mollah* (Jadavpur University, Kolkata), S. Basu and M. Nasipuri*

17. Image Secret Sharing Scheme Using a Novel Secret Sharing Technique with Steganography - *P. K. Naskar* (Jadavpur University, Kolkata), A. Chaudhuri and Atal Chaudhuri*

18. Authorship Identification Using Stylometry Analysis: A CRF Based Approach – *T. Chakraborty* (Jadavpur University, Kolkata) and S. Bandyopadhyay*

19. Analysis of Data Retrieval Time for Filter-based Data Fusion Management Scheme – *B. Bhattacharya* (BGI, Kolkata), S. Bhattacharjee and D. D. Majumder*

Registration

High Tea

Inaugural Session

Inaugural Session

Communication Engg. Track: S. M. Kale

Electron Devices Track: Binit Syamal

Microwave Engg. Track: Sayantan Dhar

Computer Sc. & Engg. Track: Tanmoy   Chakraborty

The Participants: IEEE CASCOM PGSPC 2010