

Technical Program Schedule

NWCDMA 2014

(March 10 – 14, 2014)

March 10, 2014 (DAY 1)

Session I:

10.15 – 11.15 AM: Inauguration

11.15 AM – 11.45 AM: HIGH TEA

Session II:

11.45 AM – 12.30 PM:

Keynote Speaker: Prof. Bimal K. Roy, ISI, Kolkata: *Combinatorial Batch Codes*

Chair: Prof. Malay Sen, North Bengal University, Siliguri

12.30 PM – 1.20 PM: LUNCH

Session III:

1.20 PM – 2.50 PM: Invited Speakers:

Prof. Rana Barua, ISI, Kolkata: *Number Theory in Cryptography*

Prof. Krishnendu Mukhopadhyaya, ISI, Kolkata: *Rigid graph.*

Chair: Prof. Sandip Das, ISI, Kolkata

2.50 PM – 3.00 PM: TEA

Session IV:

3.00 PM – 5.00 PM: Workshop Lecture:

Speaker: Dr. Srabani Mukhopadhyaya, BIT Mesra, Kolkata Extension Centre:

Introduction to Graph Algorithms

March 11, 2014 (DAY 2)

Session V:

10.00 AM – 12.00 Noon: Workshop Lecture:

Prof. P. Paulraja, Annamalai University, Annamalainagar: *Some Techniques in the Theory of Graph Decompositions.*

Dr. Indranath Sengupta, Jadavpur University, Kolkata : *Introduction to finite fields.*

12.00 Noon – 12.15 PM: TEA

Session VI:

12.15 PM – 1.00 PM: Invited Speaker:

Dr. M. K. Sen, University of Calcutta, Kolkata: *On power graphs over semigroups*

Chair: Prof. P. Paulraja, Annamalai University, Annamalainagar.

1.00 PM – 1.50 PM: LUNCH

Session VII:

1.50 PM – 3.20 PM: Invited Speakers:

Dr. Pratima. Panigrahi, IIT, Kharagpur: *Some open problems on distance regular graphs*

Dr. Buddhadeb Sau, Jadavpur University:

Chair: Prof. M. Acharya, DTU, Delhi

3.20 PM – 3.30 PM: TEA

Session VIII:

3.30 PM – 5.00 PM: Paper Reading Session:

Ms. Sriparna Chattopadhyay, IIT, Kharagpur: *On the spectrum of power graphs of finite cyclic and dihedral groups.*

Mr. Sukhamoy Pattanayak, Indian School of Mines, Dhanbad: *(1 - u)-constacyclic codes over the ring $Z_2 + u Z_2, u^2=u$.*

Dr. Ivy Chakrabarty, Gopalan College of Engineering and Management, Bangalore: *An undirected graph on finite subset of natural numbers.*

Ms. Priyanka Singh, IIT, Kharagpur: *On self-connectedness property of product graphs.*

Mr. Tarasankar Pramanik, Vidyasagar University, Midnapore: *Fuzzy φ -tolerance competition graphs.*

Chair: Prof. M. K. Sen, University of Calcutta, Kolkata

March 12, 2014 (DAY 3)

Session IX:

10.00 AM – 12.00 Noon: Workshop Lecture: Speakers:

Speaker: Dr. Subhash Chandra Nandi, ISI, Kolkata: *Flows in Networks.*

12.00 Noon – 12.15 PM: TEA

Session X:

12.15 PM – 1.00 PM: Invited Speaker:

Prof. Sandip Das, ISI, Kolkata: *The Erdős-Szekeres theorem: upper bounds and related results.*

Chair: Prof. M. Acharya, DTU, Delhi

1.00 PM – 1.50 PM: LUNCH

1.50 PM – 3.20 PM: Invited Speakers:

Prof. M. Acharya, DTU, Delhi: *On Boolean Petri nets.*

Prof. P. Paulraja, Annamalai University, Annamalainagar: *Decompositions of Some Regular Graphs into Cycles.*

Chair: Dr. Buddhadeb Sau

Session XI:

3.20 PM – 3.30 PM: TEA

Session XII:

3.30 PM – 5.00 PM: Paper Reading Session:

Dr. Sunil Maity, Burdwan University, Burdwan: *Bipartite and planar power graphs of finite groups.*

Ms. Arti Pandey, IIT, Delhi: *On the dominator coloring in proper interval graphs.*

Mr. Raibatak Sen Gupta, Jadavpur University, Kolkata, *A new type of zero-divisor graphs.*

Dr. Sagnik Sen, University of Bordeaux, Talence, France: *On homomorphisms of orientable graphs.*

Chair: Dr. Kallol Paul

March 13, 2014 (DAY 4)

Session XIII:

10.00 AM – 12.00 Noon: Workshop Lecture:

Speaker: Dr. Arijit Bishnu, ISI, Kolkata: *Approximation Algorithms for Graphs.*

12.00 Noon – 12.15 PM: TEA

Session XIV:

12.15 PM – 1.00 PM: Keynote Speaker:

Prof. B. Basavagoud, Karnatak University, Dhadwad: *Embedding of Strongly Regular Graphs into Complete Binary Trees.*

Chair: Prof. P. Mali

1.00 PM – 1.50 PM: LUNCH

Session XV:

1.50 PM – 3.20 PM: Invited Speakers:

Dr. Ashok Das, University of Calcutta, Kolkata: *New Characterizations of Proper Interval Bigraphs and Proper circular arc Bigraphs.*

Dr. P. Manimaran, CRRAO AIMSCS, Hyderabad: *Applications of graph theory: Role of centrality measures in biological systems.*

Chair: To be announced later.

3.20 PM – 3.30 PM: TEA

Session XVI:

3.30 PM – 4.15 PM: Invited Speakers:

Dr. Anita Pal, NIT, Durgapur: *Minimum spanning tree algorithm using fuzzy sets of Type-2.*

Chair: Dr. S. Pati, Associate Professor, IIT, Guwahati

Session XVII:

4.20 PM – 5.00 PM: Paper Reading Session:

Mrs. S. Mrudula, Sri Venkateswara : *Cryptanalysis of “a time-bound ticket-based mutual authentication scheme for cloud computing”.*

Mr. Arindam Dey, NIT, Durgapur: *The shortest path problem with interval Type-2 fuzzy arc lengths.*

Chair: Dr. Anita Pal

March 14, 2014 (DAY 5)

Session XVIII:

10.00 AM – 10.45 AM: Keynote Speaker:

Prof. S. B. Rao, CRRAO AIMSCS, Hyderabad: *Graphs with prescribed vertex separator graphs: .characterizations, algorithms, complexity and unsolved problems.*

Chair: Prof. Shamik Ghosh

Session XIX:

10.45 AM – 11.30 AM: Invited Speaker:

Dr. Sasanka Roy, CMI, Chennai: *Data Structures to optimize Geometric Query.*

Chair: Prof. Ashis Kr. Sarkar

11.30 AM – 11.45 AM: TEA

Session XX:

11.45 AM – 1.15 PM: Invited Speaker:

Dr. Sukanta Pati, IIT, Guwahati: *On the reciprocal eigenvalue property of graphs.*

Dr. G. Sethuraman, Anna University, Chennai: *Every tree is a subtree of graceful tree, graceful graph and alpha-labeled graph.*

Chair: Dr. Indranath Sengupta, Jadavpur University

1.15 PM – 2.05 PM: LUNCH

Session XXI:

2.05 PM – 3.20 PM: Paper Reading Session:

Dr. Vorugunti Chandra Sekhar, Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar: *A secure biometric-based user authentication scheme for heterogeneous WSN.*

Ms. Shrabanti Das, Tezpur University, Tezpur: *Maintaining connected dominating set in wireless sensor network on sensor failure.*

Mr. Halim Masuk H., Tezpur University, Tezpur: *Mapping rectilinear environments using a single camera.*

Dr. Hema K. Yarnagula, Tezpur University, Tezpur: *A power allocation strategy for underlay cognitive radio networks.*

Chair: Dr. Buddhadeb Sau, Jadavpur University

3.20 PM – 3.30 PM: TEA

Session XXII:

3.30 PM – 4.00 PM: Valedictory