

SOFT COMPUTING & ITS APPLICATIONS (SDP under TEQIP-II)

Venue: RCC Institute of Information Technology
March 18-22, 2013

REGISTRATION FORM

Name: _____

Institute: _____

Institutional Address*: _____

Designation*: _____

Qualification: _____

Specialization*: _____

Research Interest*: _____

Mobile/Landline*: _____

Accommodation: (Required/ Not Required)

E-mail*: _____

Applicant's Signature:

Date:

The above applicant will be permitted to participate

Signature of Principal/ Head of the Department with Seal

* Mandatory

ADVISORY COMMITTEE

Prof. Sparshamoni Chatterjee

Chairman, RCCIIT and Former VC, BESU

Prof. Pramatha Nath Basu, IT, RCCIIT

Dr. Tirtha Sankar Das, OIC, RCCIIT

CONVENER

Dr. Siddhartha Bhattacharyya,

Associate Professor, Dept. of IT

COORDINATORS

Mr. Hrishikesh Bhaumik, Assoc. Professor, IT

Dr. Dipankar Majumdar, Asst. Professor, IT

ORGANIZING MEMBERS

Registration

Mr. Indrajit Pan, Assistant Professor, IT
(indrajit.pan@rcciit.in/ 9830570107)

Mr. Abhijit Das, Assistant Professor, IT
(ayideep@yahoo.co.in/ 9830444823)

Session Arrangements (Invited Talks)

Mr. Anirban Mukherjee, Asst. Professor, IT

Mr. Pankaj Pal, Asst. Professor, IT

Ms. Abantika Choudhury, Asst. Professor, IT

Session Arrangements (Hands on)

Mr. Hiranmoy Roy, Asst. Professor, IT

Mr. Soumyadip Dhar, Asst. Professor, IT

Ms. Moumita Deb, Asst. Professor, IT

Mr. Arijit Majumder, Asst. Programmer, IT

Ms. Kamalika Banerjee, Asst. Programmer, IT

Staff Development Program Under TEQIP - II on **SOFT COMPUTING and its Applications**

March 18-22, 2013

Technically sponsored by
**IEEE Computational Intelligence Society
Kolkata Chapter**



Organized by
**Department of Information Technology
RCC Institute of Information
Technology**

**Unit of an Autonomous Society of Department of
Higher Education, Govt. of West Bengal**



Canal South Road, Beliaghata, Kolkata – 700015,
West Bengal, INDIA

Phone +91 33 2323 2463 Fax +91 33 2323 4668

www.rcciit.in

RCC INSTITUTE OF INFORMATION TECHNOLOGY

It is a World Bank funded (TEQIP - II) Government aided self financing Engineering College under an Autonomous Society of Department of Higher Education, Govt. of West Bengal. It was setup in 1999 with an active support and collaboration of Ministry of Information Technology, Government of India and Department of Higher Education, Govt. of West Bengal. The Institute offers five B. Tech. and three M. Tech. programs along with MCA.

SOFT COMPUTING & ITS APPLICATIONS

Soft Computing is a relatively new computing paradigm bestowed with tools and techniques for handling real world problems. The main components of this computing paradigm are *neural networks*, *fuzzy logic* and *evolutionary computation*. Each and every component of the *soft computing* paradigm operates either independently or in coalition with the other components for addressing problems related to modeling, analysis and processing of data.

Neural networks are made up of interconnected processing nodes/neurons, which operate on numeric data. These networks have the capabilities of adaptation and approximation. The varied amount of uncertainty and ambiguity in real world data are handled in a linguistic framework by means of *fuzzy sets* and *fuzzy logic*. Hence, this component is efficient in understanding vagueness and imprecision in real world knowledge bases. *Genetic algorithms*, *simulated annealing algorithm* and *ant colony optimization algorithm* are representative evolutionary computation techniques, which are efficient in deducing an optimum solution to a problem, thanks to the inherent exhaustive search methodologies adopted. Of late, *rough sets* have evolved to improve upon the performances of either of these components by way of approximation techniques.

These *soft computing* techniques have been put to use in wide variety of problems ranging from scientific to industrial applications. Notable among these applications include image processing, pattern recognition, control engineering, forensics, data mining, web intelligence etc. To be precise, they have brought in a profound impact on every sphere of modern civilization.

OBJECTIVE

This Staff Development Program (SDP) is meant to setup a forum for deliberation of the basic concepts and recent works in different associated areas of Soft Computing. Eminent researchers from academia will deliver on some of their own research works that marks new avenues in this domain. This SDP will span over 5 days and comprise 6 technical and 4 hands on sessions. This will surely give a rare exposure to the participants on advances in knowledge, technologies and research methodologies in allied paradigm for shaping their research competency. It will also provide a means for the participants to interact with the eminent speakers.

SPEAKER DETAILS

Prof. Dipti Prasad Mukherjee

Electronics and Communication Sciences Unit, Indian Statistical Institute, Kolkata

Prof. Jaya Sil

Department of Computer Science and Technology, Bengal Engineering & Science University, Shibpur

Prof. Ujjwal Maulik

Department of Computer Science and Engineering, Jadavpur University, Kolkata

Prof. Paramartha Dutta

Department of Computer and System Sciences, Viswabharati University, Santiniketan

Prof. Sanjay Saha

Department of Computer Science and Engineering, Jadavpur University, Kolkata

Prof. Siddhartha Bhattacharyya

Department of Information Technology, RCC Institute of Information Technology, Kolkata

Tentative Itinerary (18 to 22 February 2013):

Date	Duration	Agenda
18.03.13	11.00 – 13.00	Fuzzy sets & fuzzy logic
	14.00 – 17.00	Hands on Fuzzy sets
19.03.13	11.00 – 13.00	Image Processing
	14.00 – 17.00	Hands on Image Processing
20.03.13	11.00 – 13.00	Genetic Algorithm
	14.00 – 17.00	Hands on Genetic Algorithm
21.03.13	11.00 – 13.00	Data Mining Techniques
	14.00 – 16.00	Pattern Recognition
22.03.13	11.00 – 13.00	Rough Sets
	14.00 – 17.00	Hands on Rough sets

- * Registration on March 18, 2013 (10:00 -10:30)
- * Inauguration on March 18, 2013 (10:30 – 10.45)
- * Daily Lunch (13.00 – 14.00)

REGISTRATION GUIDELINES

The SDP is mainly aimed for faculty members of all Universities and Engineering colleges across India. However registration is limited and will be done on first come priority basis. Arrangement for accommodation can be done on prior request at own cost.

This SDP has to be attended on all five days. Attendances at every session are mandatory to qualify for the Certificates. Certificates will be issued on the concluding day of the SDP.

- **There will be NO Registration fees**
- **NO accommodation will be provided**
- **NO Spot Registration will be entertained**

Participants can mail a scanned copy of their duly filled-in Registration form to any of following email ids:

indrajit.pan@rcciit.in
ayideep@yahoo.co.in

Original form must have to be submitted by 18.03.2013.