

**Image and Video Processing
(FDP under TEQIP-II)**

Venue: RCC Institute of Information Technology
December 9 - 13, 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

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Chairman, RCCIIT and Former VC, BESU

Prof. (Dr.) Partha Bose, Principal, RCCIIT

Prof. (Dr.) Pramatha Nath Basu, IT, RCCIIT

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Ms. Moumita Deb, Asst. Professor, IT

Mr. Arijit Majumder, Asst. Programmer, IT

Ms. Sudipta Bose Nandi, Asst. Programmer, IT

One week Faculty Development
Program

Under TEQIP - II on

**Image and Video
Processing**

December 9 - 13, 2013

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**



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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.

IMAGE AND VIDEO PROCESSING

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 Faculty Development Program (FDP) is meant to setup a forum for deliberation of the basic concepts and recent works in different associated areas of Image and Video Processing. Eminent researchers from academia will deliver on some of their own research works that marks new avenues in this domain. This FDP will span over 5 days and comprise 5 technical and 5 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. Kashinath Dey
University of Calcutta, Kolkata

Prof. Debotosh Bhattacharyya
Jadavpur University, Kolkata

Prof. Bibhas Dhara
Jadavpur University, Kolkata

Prof. Sanjoy Saha
Jadavpur University, Kolkata

Prof. Siddhartha Bhattacharyya
RCCIIT, Kolkata

Prof. Hrishikesh Bhaumik
RCCIIT, Kolkata

Prof. Hiranmoy Roy
RCCIIT, Kolkata

Prof. Soumyadip Dhar
RCCIIT, Kolkata

Tentative Itinerary (18 to 22 February 2013):

Date	Duration	Agenda
09.12.13	11.00 – 13.00	Lecture
	14.00 – 17.00	Hands on
10.12.13	11.00 – 13.00	Lecture
	14.00 – 17.00	Hands on
11.12.13	11.00 – 13.00	Lecture
	14.00 – 17.00	Hands on
12.12.13	11.00 – 13.00	Lecture
	14.00 – 16.00	Hands on
13.12.13	11.00 – 13.00	Lecture
	14.00 – 17.00	Hands on

- * Registration on December 9, 2013 (10:00 -10:30)
- * Inauguration on December 9, 2013 (10:30 – 10.45)
- * Daily Lunch (13.00 – 14.00)

REGISTRATION GUIDELINES

The FDP 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 FDP 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 FDP.

- **Registration fees – Rs. 1000.00**
- **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:

fdp.doit@gmail.com

Original form must have to be submitted by 09.12.2013.