

Computational Intelligence (FDP under TEQIP-II)

Venue: RCC Institute of Information Technology
March 10-14, 2014

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

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Mr. Ripon Mandal, Lab Technician, IT

Ms. Moumita Chatterjee, Junior Assistant, IT

One week
Faculty Development Program

on
Under TEQIP - II on

Computational Intelligence

March 10 - 14, 2014

Organized by

Department of Information Technology

RCC INSTITUTE OF INFORMATION TECHNOLOGY

Unit of an Autonomous Society of the Department of
Higher Education, Government 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.

RECENT TRENDS IN RESEARCH AND RESEARCH METHODOLOGY

Computational intelligence (CI) is a set of nature-inspired computational approaches to address complex real-world problems to which traditional approaches, i.e., first principles modeling or explicit statistical modeling, are ineffective or infeasible. Many such real-life problems are not considered to be well-posed problems mathematically, but nature provides many counterexamples of biological systems exhibiting the required function, practically. Traditional models also often fail to handle uncertainty, noise and the presence of an ever-changing context. Computational Intelligence provides solutions for such complicated problems. It primarily includes artificial neural networks evolutionary computation and fuzzy logic. In addition, CI also embraces biologically inspired algorithms such as swarm intelligence and artificial immune systems, which can be seen as a part of evolutionary computation, and includes broader fields such as image processing, data mining, and natural language processing.

The characteristic of "intelligence" is usually attributed to humans. Intelligence is directly linked to the reasoning and decision making. Fuzzy logic introduced in 1965 deals effectively with uncertainty that is common for human reasoning, perception and inference and, contrary to some misconceptions, has a very formal and strict mathematical backbone. Neural networks, introduced in 1940s (further

developed in 1980s) mimic the human brain and represent a computational mechanism based on a simplified mathematical model of the perceptrons (neurons) and signals that they process. Evolutionary computation, introduced in the 1970s and more popular since the 1990s mimics the population-based sexual evolution through reproduction of generations. also mimics genetics in so called genetic algorithms.

OBJECTIVE

This Faculty Development Program (FDP) is meant to setup a forum for deliberation of the basic concepts in Recent Trends in Computational Intelligence. 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 comprises 5 technical and 5 hands on sessions. This will surely give a rare exposure to the participants on advances in technologies and research trends in allied paradigm for shaping their research competency.

ABOUT IEEE COMPUTATIONAL INTELLIGENCE SOCIETY (CIS), KOLKATA CHAPTER

The Field of Interest of the Society shall be the theory, design, application, and development of biologically and linguistically motivated computational paradigms emphasizing neural networks, connectionist systems, genetic algorithms, evolutionary programming, fuzzy systems, and hybrid intelligent systems in which these paradigms are contained..

SPEAKER DETAILS

Prof. Malay Kumar Kundu
ISI, Kolkata

Prof. Ujjwal Maulik
Jadavpur University, Kolkata

Prof. Paramartha Dutta
Visva-Bharati University, Santiniketan

Prof. Debotosh Bhattacharjee
Jadavpur University, Kolkata

Prof. Siddhartha Bhattacharyya
RCCIT, Kolkata

Prof. Hrishikesh Bhaumik
RCCIT, Kolkata

Tentative Itinerary (10 to 14 March 2014):

| Date | Time | Session |
|----------|-------------|--|
| 10.03.14 | 11:00-13:00 | Lecture on CBIR |
| | 14:00-17:00 | Hands on MATLAB |
| 11.03.14 | 11:00-13:00 | Lecture on Pattern Recognition |
| | 14:00-17:00 | Hands on Image Processing |
| 12.03.14 | 11:00-13:00 | Lecture on Evolutionary Computation |
| | 14:00-17:00 | Hands on Fuzzy Logic |
| 13.03.14 | 11:00-13:00 | Lecture on Face Recognition |
| | 14:00-17:00 | Hands on Neural Networks |
| 14.03.14 | 11:00-13:00 | Lecture on Quantum Inspired Soft Computing |
| | 14:00-17:00 | Hands on Video Processing |

*Registration on March 10, 2014 (10:00 - 10:30)

*Inauguration on March 10, 2014 (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 one of these following email ids:

fdp.doit@gmail.com

Original form must have to be submitted by 10.02.2014.