Two Week Faculty Development Program
Under the banner of
Electronics and ICT Academy
National Institute of Technology, Patna
on
Hybrid Computational Intelligence
Venue: RCC Institute of Information Technology
July 17 – July 27, 2017

REGISTRATION FORM

Name: _____

Institute: _____

Institutional Address*: _____

_____

Designation*: _____

Qualification: _____

Specialization*: _____

Research Interest*: _____

Experience (No. of years): _____

Gender (M/F)*: ___Caste (Gen/SC/ST/OBC)*: ____

Address for communication*: _____

_____

Mobile/Landline*: _____

E-mail*: _____

Demand Draft/ NEFT No _____

Bank Name: _____

Amount: _____

Date: Applicant's Signature
_____
The above applicant will be permitted to participate
_____

Signature of Principal/ Head of the Department with Seal
_____
* Mandatory

PATRONS

Prof. (Dr.) Asok De
Director, NIT, Patna

Dr. Sparshamoni Chatterjee
Chairman, RCCIIT and Former VC, BESU

COORDINATORS

Dr. Bharat Gupta
Asst. Prof., NIT Patna

Prof. (Dr.) Siddhartha Bhattacharyya
Principal, RCCIIT

CO-COORDINATORS

Dr. Indrajit Pan, Asst. Prof., IT

Mr. Hrishikesh Bhaumik, Assoc. Prof., IT

ORGANIZING COMMITTEE MEMBERS

Dr. Dipankar Majumdar, Assoc. Prof. & HOD, IT
Dr. Abhijit Das, Asst. Prof., IT
Mr. Pankaj Pal, Asst. Professor, IT
Ms. Abantika Choudhury, Asst. Professor, IT
Mr. Hiranmoy Roy, Asst. Professor, IT
Mr. Soumyadip Dhar, Asst. Professor, IT
Ms. Moumita Deb, Asst. Professor, IT

Mr. Ripon Mondal, Lab Asst., IT
Ms. Jayanti Das, Tech. Asst., IT
Mr. Kundan Singh, Tech. Asst., IT
Mr. Deepam Ganguly, Tech. Asst., IT

Two Week Faculty Development Program on

Hybrid Computational Intelligence

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Under the Banner of

Electronics and ICT Academy, NIT Patna
National Institute of Technology
PATNA

In collaboration With

Department of Information Technology
RCC Institute of Information Technology
Unit of an Autonomous Society of Department of
Higher Education, Govt. of West Bengal

Technically Sponsored by

Venue
RCC Institute of Information Technology
Canal South Road, Beliaghata, Kolkata – 700015, West
Bengal, INDIA
Phone +91 33 2323 2463
www.rcciit.org

NIT PATNA
National Institute of Technology Patna is the 18th National Institute of Technology created by the Ministry of H.R.D. Government of India after rechristening the erstwhile Bihar College of Engineering Patna on 28.01.2004. The Institute is situated on the south bank of holy river Ganges behind Gandhi Ghat (where the ash of father of the Nation, Mahatma Gandhi was offered in the river Ganges). The Institute imparts high level education training, research and development in science, engineering technology and humanities along with high quality education and values at UG, PG and Ph.D. level. At present the Institute offers courses in six major technical disciplines viz. Architecture, Civil Engineering, Computer Science & Engg., Electrical Engg., Electronics & Communication Engg. and Mechanical Engg. It also consists of well-established departments of Physics, Chemistry, Mathematics and Humanities and Social Sciences.

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.

VISION OF DEPARTMENT OF INFORMATION TECHNOLOGY
To empower students to become global leaders in the IT based sector that would cater the needs of the local and global Community.

MISSION OF DEPARTMENT OF INFORMATION TECHNOLOGY
To create a global ambience that fosters excellence in teaching-learning, research and development aided by state-of-the art Infrastructure, a dedicated pool of faculty and staff members and an inspired group of alumni that would help the department in facilitating the students to excel in IT and ITES.

ELECTRONICS AND ICT ACADEMY
Ministry of Electronics and Information Technology, Government of India has instituted seven Electronics and Information & Communications Technology (ICT) Academies of which, the academy of NIT Patna is one. The Academy at NIT Patna aims to design and organize basic as well as specialized training programmes in niche areas of electronics and ICT for the development of required knowledge base, skills and tools to equip the teaching community with better knowledge and understanding.

OBJECTIVE
The objective of the course is two-fold. Firstly, it aims to provide an overview of hybrid computational intelligence and its applications to engineering problems through extensive deliberations followed by hands-on session on selected topics. Secondly, it is aimed to enlighten the intended participants with the intricacies of hybrid computational intelligence and to help them out in implementing the hybrid computational algorithms so that they get inspired to pursue further research avenues in this field thereby enriching it.

COURSE OUTCOME
At the end of the course, the participants will be able to apply the knowledge of hybrid computational intelligence to solve their own research problems related to machine learning, image processing, big data analytics, multimedia information processing and pattern recognition. In addition, they can come out with tailor-made solutions to their research problems after gathering knowledge about the implementation of different hybrid computational algorithms.

COURSE CONTENT
o Fundamentals of Computational Intelligence
o Hybrid Meta-heuristics
o Intelligent Image and Signal Processing and Analysis
o Supervised and Unsupervised Machine Learning
o Quantum Inspired Computational Intelligence
o Hybrid Intelligence for Social Networks
o Multi-objective Optimization
o Intelligent Big Data Analytics
o Intelligent Multimedia Data Analysis
o Ensemble based Classification

RESOURCE PERSONS
o Prof. Ujjwal Maulik, Jadavpur University
o Prof. Sushmita Mitra, ISI Kolkata
o Dr. Swagatam Das, ISI Kolkata
o Dr. Pabitra Mita, IIT KGP
o Prof. Siddhartha Bhattacharyya, RCC Institute of Information Technology
o Prof. Paramartha Dutta, Visva-Bharati University
o Prof. Debotosh Bhattacharjee, Jadavpur University
o Dr. Anirban Mukhopadhyay, Kalyani University
o Dr. Asit K. Das, IIEST
o Dr. Kousik Mondal, IIT Dhanbad
o Dr. Kousik Dasgupta, Kalyani Government Engineering College

WHO CAN PARTICIPATE
Faculty members of UGC/AICTE recognized Universities and Engineering colleges all over India, research scholars, M. Tech. final year students, However there are very limited number of seats for Ph.D. /PG students; priority will be given to Ph.D. students.

REGISTRATION GUIDELINES

Maximum 60 students will be enrolled in first cum first serve basis

- **Registration fees**
  - **Rs. 2000.00 (Ph.D./ PG Students)**
  - **Rs. 3000.00 (Academia)**
  - **Rs. 5000.00 (Industry)**

Registration fee includes Registration kit, working lunch, Tea and Snacks and a Course Completion Certificate. Certificate will be given by Electronics & ICT Academy NIT Patna.

Three payment modes

o DD must be drawn in favor of "Director, NIT Patna" payable at Patna
o Bank details for NEFT:
  The bank details are as follows:
  Bank Name: Allahabad Bank, NIT Patna
  A/c No: 50380476798
  IFSC Code: ALLA0212286
  A/c Holder Name: NIT Patna

o Registration fee can also be deposited by cash

All communications need to be addressed to

p.indrajit@gmail.com
Original form along with Demand draft (if paid using demand draft) must have to be submitted by 17.07.2017.