

FACULTY DEVELOPMENT PROGRAM

on

"Pattern Recognition and Image Analysis"

Organised By

Electronics & ICT Academy

IIT Roorkee



in association with
**Teerthanker Mahaveer
University**



March 16, 2018 - March 20, 2018

Experts from Academia

Dr. Sanjeev Kumar

Department of Mathematics

(IITR)

Dr. Partha Pratim Roy

Department of CSE

(IITR)

Ministry of Electronics & Information Technology
Government of India



Venue

**College of Computing Sciences and
Information Technology, Teerthanker
Mahaveer University Moradabad**

Objective of the Course

- Train the participants with the theoretical concepts of the pattern recognition techniques with main emphasize to biometric applications.
- Understanding of various state-of-art techniques in image/signal analysis.
- Training on the development of pattern recognition and image analysis algorithms.
- Knowledge and hands-on training of various software for pattern recognition and image analysis.
- Introduce real life applications of the pattern recognition and image analysis.
- Training of the faculty and researcher with recent developments in pattern recognition in industries.

Benefits and Outcomes of the Course

- Learning of basic knowledge in the area of pattern recognition and image analysis.
- Understanding of using pattern recognition techniques for digital, medical and satellite imaging.
- Demonstrations of popular software by the expert from the industry.
- Participants will be able to develop their own software.
- Hands-on experience in working with different software in image analysis.
- Participants will be able to develop laboratories in their respective institutions in the course areas.
- Interaction with industry persons with possible collaborations.

Focus Areas

- Introduction to various feature extraction techniques in image and video.
- Introduction to various dimensionality reduction techniques with recent state of art techniques.
- Introduction to linear and nonlinear classifiers with their mathematical backgrounds.
- Introduction to decision trees, neural networks and support vector machines.
- An insight on deep learning algorithms.
- Few benchmark problems of pattern recognition in image analysis.
- Demonstrations of software like Weka, LIBSVM, SVM light and PRTools.

Program Features

- The program is split into lectures and labs sessions.
- Hands-on experience on basic & advanced-level topics.
- Interaction & learning with experts from academia & industry.
- Certificates to the participants by E&ICT Academy IITR.

Coordinators

- Dr. Sanjeev Manhas, PI, E&ICT Academy, IITR
- Dr. Partha Pratim Roy, CSE Dept. IITR
- Dr. Sanjeev Kumar, Mathematics Dept. IITR
- Dr. R.K. Dwivedi, Principal, CCSIT, TMU
- Dr. Rajeev Kumar, CCSIT, TMU



Who Can Attend ?

Program is open to faculty members/research scholars/PG students from colleges/universities, and industry personnel working in the concerned/allied discipline.

Registration Fee

Faculty members: ₹2000/-
Research scholars: ₹2000/-
Persons from Industry: ₹2500/-

Payment Details

DD in favor of "Dean SRIC IIT Roorkee" payable at Roorkee
"OR"

Make Online Payment by NEFT/RTGS on given detail

Account Name: Research Project, IIT Roorkee
Account Number: 33012172097
IFSC code: SBIN0001069

How to Apply

Step 1: Make Payment

Step 2: Participants may fill registration form through Academy website (<http://eict.iitr.ac.in>).
OR

Step 2: Send a duly filled-in registration form along with Demand Draft to Academy address.

Mr. Prateek Sharma, EICT Academy, ECE Department, IIT Roorkee-247667

Important Dates



**Last Date For Online
Registration:
12th March 2018**

**Last Date For Receiving
Application: 13th March. 2018**



EICT Academy IITR

Electronics and ICT Academy (E&ICT) at IIT Roorkee (funded by Ministry of Electronics and Information Technology) aims to enrich and upgrade teaching and research competences of engineering faculties of institutes/colleges by conducting courses and workshops in fundamentals as well as emerging areas of E&ICT and enabled areas. The programs are conducted by well-known industry partners, resource persons from leading academia and experts from renowned R&D organizations.



Activities of the Academy

- Specialized training on basic and advanced level topics with hands-on experience in the emerging areas of Electronics & ICT.
- Setup the activity centers to conduct FDPs locally at institutes/colleges.
- Curriculum development for the industry.
- Continuing Education Programme for students/working professionals.
- Design, develop and delivery of specialized modules for specific research areas in industry.

Faculty Development Program

on

"Pattern Recognition and Image Analysis "



March 16, 2018 - March 20, 2018

REGISTRATION FORM

Applicant Name _____

Gender: _____

Category (GEN/OBC/SC/ST): _____

Designation: _____

Name and Address of the
Organizatio/Institute: _____

City/Town: _____

Email: _____

Phone Number: _____

Do you need Accommodation?
(Yes/No): _____

DD Number: _____

Date: _____

Issuing Bank: _____

Payable at: _____

Signature of the Applicant

Contact Us

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