

on

"Document Image Processing and its Applications "

Under the aegis of

**Electronics & ICT Academy
IIT Roorkee**



Sept. 04-08, 2018

Experts from Academia/Industry

**Dr. Partha
Pratim Roy
IIT Roorkee**

**Dr. Balasubramanian
Raman
IIT Roorkee**

Supported by

**Ministry of Electronics & Information
Technology
Government of India**

Venue



**Indian Institute of Technology
Roorkee**

Why DIP?

With the evolution of mobile devices and fast computers, an increasing interest has been fostered in document image analysis. With many paper documents being sent and received via fax machines and being stored digitally in large document databases, the interest grew to do more with these images than simply view and print them. In multi-lingual and multi-script countries like India, information communication using multiple languages/scripts is quite common. Due to complex nature of Indic scripts, recognition of such scripts is required for automation of Indic documents. This course will discuss the techniques of document image processing and its real-world applications in industry.

Objective of the Course

- To familiarize the participants with some basic document image processing and techniques & their applications.
- Several software libraries and data set publicly available will be used to illustrate the application of these algorithms.
- The course aims to provide both an objective overview and an in-depth analysis of the state-of-the-art of the document analysis systems.
- It will cover both theoretical and practical aspects of real problems of document image processing, as well as examples of successful applications.
- Motivate participants through case studies to understand the practical problems.
- Training with the recent developments of Document Image Processing in industries.

Program Features

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

Focus Areas

- Basic principles of Optical Character Recognition (OCR) and document understanding.
- Graphics recognition.
- Word spotting in document images.
- Historical document analysis.
- Text detection in natural scene images.
- Indic Handwriting Recognition.
- Online Handwriting Recognition.
- Deep Learning for Document Image Processing.
- Applications of document image processing transferred to Industry.



Benefits and Outcomes of the Course

- The program would help the participants to understand the key concepts of document image processing.
- Participants would also acquire the skills needed to work with the problems of feature extraction methods designed for character recognition.
- Demonstrations of deep learning techniques developed for document image processing.
- Demonstrations of popular software will be done by the expert.
- Interaction with experts will be established with possible collaborations.

Coordinators

- **Dr. Sanjeev Manhas P.I. E&ICT Academy
IIT Roorkee**
- **Dr. Partha Pratim Roy, Assistant Prof. CSE
Dept. IIT Roorkee**
- **Dr. Balasubramanian Raman, Associate Prof.
CSE Dept. IIT Roorkee**

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: ₹ 2,500/-

Research scholars: ₹ 2,500/-

Persons from Industry: ₹ 3,000/-

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: Participants may fill the registration form available on the link "Apply Here" for the relevant course on eict.iitr.ac.in

Step 2: Make Payment

OR

Step 3: 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:
August 27, 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

Document Image Processing and its Applications



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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