FACULTY DEVELOPMENT PROGRAM

on

MATHEMATICAL ASPECTS OF IMAGE PROCESSING AND COMPUTER VISION

July 10- 15, 2017

Organized by

Department of Mathematics
Jaypee Institute of Information Technology
A-10, Sector-62, Noida, UP-201307,
INDIA

JIIT AND THE DEPARTMENT OF MATHEMATICS

The Jaypee Institute of Information Technology (JIIT) is declared as a deemed to be University under section 3 of UGC Act. 1956. JIIT is fully backed and supported by the Jaypee Group of Companies through its not-for-profit trust – Jaiprakash Sewa Sansthan. It is situated at Sector 62, Noida. The state-of-the-art campus is aimed at becoming a center of excellence in the field of information technology & related emerging areas of education, training and research comparable to the best in the world for producing professionals who shall be leaders in innovation, entrepreneurship, creativity and management. The University offers Doctoral (Ph.D.), Post Graduate (M. Tech. and MBA) as well as Under Graduate (B. Tech.) programs in the various disciplines of Engineering, Sciences and Management.

Mathematics plays a key role in the development of modern sciences, engineering, management and many other important areas of activities. With this aim in mind the Department of Mathematics was created from the very inception of the institute. Besides catering to the basic needs of the various B.Tech./ M.Tech. programs of the Institute, it had a strong fervour towards research and development from the very beginning and efforts are being made for the convergence of Mathematics with other disciplines by introducing courses of interdisciplinary nature such as Wavelets, Fractals and Chaos, Finite Element Methods etc. The Department has a good blend of pure and applied Mathematics which provides a vibrant research atmosphere. The Department offers M. Tech. program in Applied and Computational Mathematics. At present a number of research scholar are working for a Ph. D. degree in various areas of specialization. Some of the areas in which research is being carried out are: Numerical Analysis and Computational Continuum Mechanics, Wavelets, Fractals and Chaos, Mathematical Analysis, Statistics; Queuing, Fuzzy and Information Theory.

ORGANISING COMMITTEE

Prof. Alka Tripathi (HOD)
Prof. G. S. Srivastava
Prof. A. K. Aggarwal
Prof. B. P. Chamola
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Dr. Yogesh Gupta
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Dr. S.K.Shukla
Dr. Pravesh Kumar
Dr. Himanshu Agarwal

OBJECTIVES OF FDP

In this era of information revolution images and their analysis have a great role to play in every domain of our life. Images allow us not only to perform complex tasks on a daily basis, but also enable us to communicate, transmit, process information and understand the world around us. The prime objective is to address various challenging aspects of Image Processing and Computer Vision in the framework of Mathematics. The main emphasis will be on the problems of image restoration, image segmentation, sequence analysis, image classification and their applications in Biometrics, Visual Surveillance, Medical Image Analysis, Remote Sensing, Geo Sciences, Automatic Inspection, Scientific Visualization and more. Hands on computer with some flavours of programming tools in Matlab will strengthen the program.

CONTENTS OF THE PROGRAM

- Mathematical Modeling of the Images
- 3-D Projection and Reconstruction
- Feature Detection Techniques
- Pattern Matching Techniques
- Scientific Visualization
- Tools and Software of Image Processing and Computer Vision

WHO CAN PARTICIPATE

The program is open to all the faculty members/ scientists/ engineers working in Educational Institutes/ Industries/ R&D organizations. The registration form can also be down-loaded from our website.

A certificate of participation would also be provided to the participants.

REGISTRATION FEE

Registration fee: Rs. 2500/-. The Fee includes lunch and tea during the program. No TA/DA or lodging will be provided. Registration fee can be paid by Demand draft drawn in favour of "**Jaypee Institute of Information Technology**" payable at Noida. The applicants are requested to e-mail a scanned copy of the duly filled registration form along with passport size photograph at the email id: himanshu.agarwal@jiit.ac.in.

Last Date of Registration: June 30, 2017

PROGRAM COORDINATORS

Dr. Anuj Bhardwaj & Dr. Himanshu Agarwal
Department of Mathematics,
Jaypee Institute of Information Technology,
A-10, Sector-62, Noida (UP) 201307 India
Phone: +91-120-2594340, +91-120-2594348
Email: anuj.bhardwaj@jiit.ac.in,
himanshu.agarwal@jiit.ac.in
For further information visit: http://www.jiit.ac.in.

REGISTRATION FORM

Name : .....
Academic Qualification: .....
Designation: .....
Department : .....
Organization : .....
Address (O) : .....
Phone/Fax : .....
Email : .....
Payment Details (DD No./ :
Transaction No. etc)

Signature of the Candidate