

Three - Day Workshop on
**Digital Image and Video
Processing**

7th, 8th and 9th November 2008

Under

**TECHNICAL EDUCATION QUALITY
IMPROVEMENT PROGRAMME
(TEQIP)**

Community Services

Coordinators

Dr. Hemalatha Thiagarajan

Dr. T N Janakiraman

Dr.A.Vadivel



Organized by

Department of Mathematics and
Department of Computer Applications
National Institute of Technology
Tiruchirappalli - 620 015

OBJECTIVE

Digital image and video processing is the manipulation of images and videos by computers is a relatively recent development in terms of human visual perception. The techniques, schemes and algorithms developed in this field with human visual perception of information in mind has been applied practically every type of images and videos with varying degrees of success. The inherent subjective appeal of pictorial displays attracts perhaps a disproportionate amount of attention from scientist and lay person alike. Like other multi-disciplinary fields, digital image and video processing suffers from myths, misunderstanding, misconceptions and misinformation. It is a broad umbrella under which fall diverse aspects of optics, electronics, mathematics, photography and computer technology. It is plagued with imprecise and often contradictory jargon taken from many different fields.

This workshop will collect the fundamental and advanced concepts of digital image and video processing from some of the best researchers in this field and will disseminate the same to the researcher and teachers to enhance their knowledge.

The workshop will cover

1. Introduction.
2. Digital Image Fundamentals.
3. Image Enhancement in the Spatial Domain.
4. Image Enhancement in the Frequency

Domain.

5. Image Restoration.
6. Color Image Processing.
7. Wavelets and Multiresolution Processing.
8. Image Compression.
9. Morphological Image Processing.
10. Image Segmentation.
11. Representation and Description.
12. Object Recognition.
13. Video Processing Fundamentals
14. Video Shot Detection and Retrieval
15. MPEG Standard

ELIGIBILITY

Faculty in Computer Science and related engineering fields from Engineering colleges, Arts and Science colleges and Research Institutes are eligible to attend.

TRAVEL/ACCOMMODATION

Participants will be provided with working lunch only. No TA/DA will be given. The participants have to make their own arrangements for stay during the workshop. However, if requested, accommodation may be provided in NIT Guest House/Hostel (if available) for nominal charges. The number of participants is limited to 50 only.

REGISTRATION

Application for participation in the workshop must be sent to the Coordinator as given in the attached format, along with the registration fee of **Rs.500/-** by D.D. drawn in favor of **“The Director, NIT, Tiruchirappalli-620 015”** payable at **SBI,**

NIT Branch(Code-1617). The application can also be downloaded from our website: www.nitt.edu.

IMPORTANT DATES

Last date for receiving the applications: **28th October 2008**

Intimation of Acceptance by email: **29th October 2008**

Address for Correspondence:

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2. Dr. A.Vadivel

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**Three Day Workshop on
Digital Image and Video Processing**

November 7 – 9, 2008

Department of Mathematics and
Department of Computer Applications

NATIONAL INSTITUTE OF
TECHNOLOGY

Tiruchirappalli-620 015

REGISTRATION FORM

Name:

Age:

Sex:

Qualification:

Designation:

Institution:

Experience:

Address:

E-mail ID:

Phone:

Mobile:

Details of Registration Fee:

Name of the Bank:

DD No., Date and Amount:

Signature of the participant

DECLARATION BY THE CANDIDATE

The above information is true to the best of my knowledge. I agree to abide the rules and regulations governing the TEQIP. I shall attend the course for the entire duration.

Place:

Date:

Signature of the Applicant

SPONSORSHIP CERTIFICATE

Mr./Mrs./Dr. _____ an employee of our Institution, is sponsored to attend the three day workshop on “Digital Image and Video Processing” under TEQIP conducted by the Department of Mathematics and Department of Computer Applications, National Institute of Technology(NIT), Tiruchirappalli-620 015 on 7th, 8th and 9th November 2008

Place:

Date:

Signature of the Head of the
Organization

Office Seal: