ONE DAY SKILL DEVELOPMENT PROGRAM

on

Image Processing with MATLAB

5th October, 2013

Faculty

Name Dr./Prof. :

Designation :

Student

Name Mr./Ms. :

Year & Branch : Regi. No. :

Qualification :

Institution :

Address for Communication :

Email :

Mobile :

Place :

Signature of Participant

Date :

Signature of HOD/Principal

Chief Patron

Prof. R. Sethuraman
Vice-Chancellor

Patron

Dr. S. Vaidhyasubramaniam
Dean, Planning & Development

Dr. S. Swaminathan,
Dean, Sponsored Research

Advisors

Dr. P. Swaminathan
Dean—SOC

Dr. A. Umamakeswari
Associate Dean—CSE

Convenor

Dr. K. R. Manjula

Organizing Committee

1. Smt. S.V. Poornima
2. Smt. R. Kavitha
3. Smt. K. Indhu
4. Shri Mr. J. Naren

Address for Communication

Convenor—SDP on MATLAB
Department of CSE,
School of Computing
SASTRA UNIVERSITY
Tirumalaisamudram,
Thanjavur - 613401, Tamilnadu, India.
www.sastra.edu, sdpmtl@sastra.ac.in

ONE DAY

SKILL DEVELOPMENT
PROGRAM ON

IMAGE PROCESSING WITH

MATLAB

Organized by

Department of
Computer Science & Engineering
School of Computing
SASTRA UNIVERSITY
Tirumalaisamudram,
Thanjavur - 613401, Tamilnadu, India.
www.sastra.edu
Matlab

About MATLAB

Images are everywhere, from everyday devices like cameras and smartphones to specialized devices for medical imaging, automotive safety, industrial automation, and more. Each of these uses for image processing has unique challenges. MATLAB and Image Processing Toolbox provide a flexible environment to explore design ideas and create unique solutions for imaging systems.

About Image Processing Toolbox

Image Processing Toolbox provides a comprehensive set of reference-standard algorithms, functions, and applications for image processing, analysis, visualization, and algorithm development. We can perform image enhancement, image de-blurring, feature detection, noise reduction, image segmentation, geometric transformations, and image registration. Many toolbox functions are multithreaded to take advantage of multi-core and multiprocessor computers.

Image Processing Toolbox supports a diverse set of image types, including high dynamic range, gigapixel resolution, embedded ICC profile, and tomographic. Visualization functions let you explore an image, examine a region of pixels, adjust the contrast, create contours or histograms, and manipulate regions of interest (ROIs). In this workshop, features in MATLAB such as:

- Image Acquisition Toolbox
- Image Processing Toolbox
- Inspecting and analyzing images to extract meaningful information
- Registering two images for alignment and data fusion
- Computer Vision System Toolbox.
- are explored.

Prerequisites

Previous knowledge of MATLAB is not required.

About SASTRA

The dreams of its founding fathers took shape in 1984 in the form of Shanmuga College of Engineering which is now renamed Shanmuga Arts, Science, Technology and Research Academy (SASTRA). SASTRA University has been re-accredited with GRADE ‘A’ by National Assessment and Accreditation Council (NAAC), an autonomous body established by the University Grants Commission in February 2008. SASTRA University committed to quality education, offers Undergraduate, Postgraduate and Doctoral programmes in various disciplines which include Engineering, Science, Education, Management, Arts and Law. SASTRA follows choice-based credit system, where students cherish the freedom to choose their courses and faculty, based on their desired career outcome and Intellectual stimulus. A sprawling campus, housing a built up area of 2 million square feet and a vibrant population of over 9,000 students and over 600 teaching faculty has made SASTRA a landmark in the Educational map of India. Saraswathi Sadan, the University Library is the nerve center of the entire campus catering to the needs of the students and staff in full measure. State-of-the-Art infrastructure in the University includes latest computing facilities and a 350 Mbps dedicated leased line for internet connectivity with campus wide Wi-Fi implementation. Anusandhan Kendra, SASTRA’s Hub for Research & Innovation (SHRI) is a valuable addition to the infrastructure facilities at SASTRA. Built and established at a total cost of Rs.20 crores, this facility will promote inter disciplinary research and will leverage the growing synergies between Science & Technology.

About School of Computing

The School of Computing offers various undergraduate and post graduate programmes in Computer Science & Engineering, Information Technology, Information & Communication Technology, Computer Applications and Doctoral Programmes. It has many sophisticated computer lab facilities using the State-of-the-Art hardware and software for training and R&D. A work Computing facilities comprise of Super Computer, Clusters, Blade Servers, NAS (Network Attached Storage), Multimedia Graphics Workstation and Mail Server.

Eligibility

Students and Faculty of B.Tech/M.Tech: CSE/IT/ICT and MCA

Registration

Filled in Registration form should reach through mail on or before 16/09/2013.

Registration Fee

No registration fee.

Selection Information

As seats are limited, the selection is based on FCFS Basis.

Important Dates

Registration closes on : 16/09/2013
Intimation on : 20/09/2013
(through Mail)
Event Date : 05/10/2013

Resource Person(s)

Eminent Speakers from Academy & Industry