

REGISTRATION FORM

Name :
Designation :
Organization :
Experience (in years) :
Contact Address :
Email :
Mobile :
Date :
Signature of Applicant

Registration:

Registration will be done on "FIRST COME FIRST SERVED" basis. As seats are limited to 40, early registration is recommended.

CONVENER

Dr.V.Vijaya Baskar

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STAFF COORDINATORS

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Registration Fee: ₹3000

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**SATHYABAMA
UNIVERSITY**



**National Workshop
on**

*Image Processing
& Computer Vision*

15th to 19th May, 2017



Organized by

**Dept. of Electronics &
Telecommunication Engg.,
School of EEE,
Sathyabama University,
Chennai - 600119**

ABOUT UNIVERSITY

Sathyabama University (A Christian Minority Institution) formerly known as Sathyabama Engineering College was established in the year 1987 by Dr.Jeppiaar. It is a premier institute imparting knowledge in the areas of engineering, science, technology and education. The institution's progress and contribution to the field of technical education for over two decades resulted in granting Deemed University status on 16th July, 2001 and University status on 13th Sep., 2006 under section (3) of the UGC Act, 1956 by the Ministry of Human Resources Development, Government of India. The University has been awarded as Category "A" University by Ministry of Human Resources Development (MHRD), Government of India and accredited by NAAC and also certified with DNV- GL ISO 9001 standard. The University is offering exemplary education from last 29 years.

Untiring efforts staff, students and management and positive academic ambience prevailed in the campus had made one amongst the top 10 Private Universities (Engg. domain) in India by National Institutional Ranking Framework, Ministry of Human Resource Development, Government of India. University also declared as one among the top 31 universities by Times Higher Education Ranking.

ABOUT ETCE

The department of Electronics and Telecommunication Engineering was started in the year 2003 with B.E. Degree program. Currently department also offers two year post graduate program (M.E.) in Applied Electronics. It is a part of the School of Electrical and Electronics Engineering. Over the year, the department has become centre of excellence, providing in-depth technical knowledge and opportunities for innovation and research, with highly well equipped laboratories and dedicated faculties. The R&D activities of the staff and the students have resulted in more than five hundred publications in refereed conferences and journals.

ABOUT THE WORKSHOP

Computer Vision and Image Processing play important roles in fields such Machine and Robot Intelligence. While the field of image processing deals with processing of digital mages that are 2D entities, computer vision adds the third dimension by computing the depth of the object. They provide the means for machine or robot to interact intelligently with the outside world through visual perception. Vision is undoubtedly the most powerful of all senses and enables robots to perform very flexible tasks such as moving around autonomously in a factory floor or outdoors. The applications are plentiful and very challenging. Face recognition, human activity interpretations, human-computer interaction, quality inspection of mass-produced parts, robot missile/vehicle guidance, medical imaging and computer vision-aided surgery are some of the applications.

The main objective of this workshop is to prepare professionals and scientists for working in such intelligent automation fields.

RESOURCE PERSONS:

- **Mr.Malleshappa**
Cranes Software International Ltd,
Bangaluru
- **Dr.V.Sathiesh Kumar**
MIT, Chennai

PROGRAM SCHEDULE

Day-1

- Manipulating Matrices, Data Types and Programming with MATLAB
- Image processing with Matlab

Day-2

- Embedded C code generation using Matlab
- Using High-Level GUI Development – GUIDE

Day-3

- Computer Vision Basics Part 1
- Computer Vision Basics-Part 2

Day-4

- Image Descriptors
- Building own custom Object identifier

Day-5

- Image Classification & Machine Learning Algorithm
- Raspberry Pi with Open CV