

**Sinhgad College of Engineering,
Department of Computer Engineering**

Vadgaon (Bk.), Pune, Maharashtra.

**Short Term Training Program
on**

***Image Processing and
Machine Learning***

3rd -7th December 2013

REGISTRATION FORM

Name: _____

Designation: _____

Department: _____

Name of Institute: _____

Address for Correspondence: _____

Email id: _____

Phone: (M) _____

D.D. /NEFT No.: _____ Date: _____

Name of the Bank and Branch: _____

Amount Rs. : _____

Accommodation Required: Yes / No

Signature of Participant: _____

Authority Signature _____ Seal of the Institute

Place : _____ Date: _____

CHIEF PATRONS

Prof. M.N. Navale **Dr. (Mrs.) Sunanda Navale**
Founder President, STES Founder Secretary, STES

Mr. Rohit M. Navale **Ms. Rachana M. Navale**
Vice President (HR), STES Vice President (Admin), STES

PATRONS

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Director-STES Vadgaon, Ambegaon Campus, Pune

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Principal, SCOE, Pune

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ORGANIZING COMMITTEE

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Mr. M. G. Londhe : 9975874973

ADDRESS FOR CORRESPONDENCE:

Prof. P. R. Futane - Head Dept. of Comp. Engg.
The Convener, STTP-IPML.
STES' Sinhgad College of Engineering
S. No. 44/1, Off Sinhgad Road, Vadgaon (Bk.)
Pune - 411041. Ph. No. : 020-2435 4705 Ext. 508
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www.nehacreation.co.in



Sinhgad Institutes

Sinhgad Technical Education Society's

**SINHGAD COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING**

**SHORT TERM TRAINING PROGRAM
ON
*Image Processing and Machine
Learning (STTP-IPML)***

3rd-7th December 2013



CONVENER:

Prof. P. R. Futane
Head, Department of Computer Engg.

CO-CONVENER:

Prof. C. A. Laulkar
Asso. Prof., Department of Computer Engg.

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SINHGAD TECHNICAL EDUCATION SOCIETY :

Prof. M. N. Navale with visionary objective established Sinhgad Technical Education Society (STES) to provide quality education in the fields of Engineering and Technology, Health Science, Management, Architecture, Pharmacy, Law, Arts, Science, Commerce and School Education. There are 110 institutes under the aegis of STES offering full-fledged primary, secondary, higher education and Ph.D. programs in various branches of Engineering, Science and Management.

SINHGAD COLLEGE OF ENGINEERING:

Sinhgad College of Engineering was established in the year 1996 under STES. The college offers eight AICTE approved degree courses in Engineering and Management. The college also offers Post-Graduate courses in Chemical, Civil, IT, Mechanical, E&TC and Computer disciplines. SCOE is a recognized research centre of University of Pune.

ABOUT THE DEPARTMENT OF COMPUTER ENGINEERING:

The Department of Computer Engineering was established in 1996. The department started postgraduate course of M. E. (Computer), Specialization in Computer Networks in 2008. The department is the first to start this specialization in University of Pune. Department is accredited thrice by the National Board of Accreditation.

OBJECTIVE OF THE STTP :

This STTP is intended to bring practitioners and theoreticians together to better understand image processing and machine learning problems.

- Understand the basic theory underlying machine learning and algorithms along with their strengths and weaknesses.

- Discuss the current respective virtues of classical, statistical and machine learning methods.
- Establish the parameters through which their respective, hypothesis & data driven, approaches can be brought together.
- Able to apply machine learning algorithms to solve problems of moderate complexity.
- Be able to understand the issues raised by current research.

REGISTRATION FEES :

Academy and Industry Delegates : Rs. 4000/-
Research Scholar : Rs. 3500/-

REGISTRATION DETAILS:

Limited to 30 Seats on first come first serve basis.
Course fees includes Breakfast, Tea and Lunch only.

ACCOMMODATION :

Accommodation (if required) will be provided to the outstation participant on shared basis with free of cost.

Please opt one of the payment mode as mentioned below. Send your transaction details along with registrations form to the convener STTP-IPML before the last date.

Last Date of Registrations : 22th November 2013.

Mode of Payment (NEFT/DD) :

- DD should be drawn on the favour of :
"SCOE Computer Engineering Research Programme", payable at Pune.
- NEFT account Details :
Name - SCOE Computer Engg. Research Programme.
Bank - Central Bank of India, Branch- STES
Account No.- 3010942358 IFSC : CBIN0284444

SCHEDULE

Day	Topic
1	Basics and Foundation of IP, Spatial domain filters and their applications, Frequency domain filters and their applications
2	Introduction to Machine learning, Feature extraction and selection methods, Supervised & Unsupervised Learning, Unsupervised methods : Clustering, K-means, Supervised learning approaches- I: Nearest Neighbourhood, Probability density function, Bay's Classifier, Feature extraction and selection methods
3	Supervised learning approaches-II: RBF, Linear regression , SVM, Kernel methods, Model Selection, Evaluation Metrics, Wavelet Transform and Applications-I
4	Wavelet Transform and Applications-II, Wavelet Transform and Applications-III, Object Tracking & Recognition, Surveillance System, 3D construction Model, Finger print analysis
5	Fuzzy System, Neural Network for pattern recognition, Hybrid Fuzzy Neural model, Writing of Research article, Panel Discussion followed by valedictory function

RESOURCE PERSONS

Dr. M. B. Kokare
Associate Professor, E&TC, SGGSC&T , Nanded

Dr. Aditya Abhyankar
Dean, Faculty of Technology, UoP