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)_____________ Date: ________________
D.D. /NEFT No.: _______________ Amount Rs.: __________
Name of the Bank and Branch: _________________________
__________________________________________________________________________________________
Accommodation Required: Yes / No

Signature of Participant: ______________________________
Authority Signature Seal of the Institute
Place : _______________ Date: _______________

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Mr. Y. V. Gajil : 9552596959
Mr. M. P. Divakar : 9730490616
Mr. M. G. Londhe : 9975874973

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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

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

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

Dr. Aditya Abhayankar
Dean, Faculty of Technology, UoP