



Sinhgad Institutes

Sinhgad College of Engineering
Department of Computer Engineering

One Week STTP

on

Machine Learning and
Computational Intelligence

(25th - 29th May 2015)

REGISTRATION FORM

Name: _____

Designation: _____

Department: _____

Name of the Institute: _____

Address for Correspondence: _____

Email id: _____

Phone: (M) _____

D.D. No.: _____ Date: _____

Name of the Bank and Branch: _____

Amount Rs. : _____

Accommodation Required: Yes / No

Signature of Participant: _____

Signature of Principal: _____

Seal of the Institute: _____

Place : _____

Date: _____

Resource Persons

Dr. U. V. Kulkarni

Professor, SGGSC & T, Nanded

Dr. M. B. Kokare

Associate Professor, SGGSC & T, Nanded

Schedule

Day 1	Foundations of machine learning, Features Creation and Feature Scaling Validation and Evaluation- Training/testing data split, Cross-validation, Precision, recall, and F1 score
Day 2	Support Vector Machines, kernels, kernel optimization, Hidden Markov Models, Probability model
Day 3	CI Basics: History, Techniques, Applications. ANN: Artificial Neuron Models. Activation Functions. Types, Learning Paradigms. Benefits & Applications. Learning Rules, Single Layer Perceptrons, Single Discrete Perceptron.
Day 4	Multilayer Perceptron, Generalized Delta Learning Rule. Solved Examples. Fuzzy Sets and Fuzzy Logic, Fuzzy Sets and Fuzzy Logic, Operations on Fuzzy Sets, Fuzzy Reasoning, Fuzzy System Modelling, Static and Dynamic Fuzzy Models, Fuzzy Control Systems, Unsupervised Neural Networks, Fuzzy Min-Max Neural Network, Clustering, Basics of Self Organizing Maps
Day 5	Genetic Algorithms: Basics, Applications of genetic algorithms. Neuro-Fuzzy Systems: Neuro fuzzy Architectures, Fuzzy Neural Networks - FMM for Classification. General Fuzzy Min Max Neural Network for Classification and Clustering. Data Mining: Basic Concepts of Data Mining, Soft Computing Tools in Data Mining

REGISTRATION FEES

Academy and Industry delegates : Rs. 4000/-

Research scholars : Rs. 3500/-

REGISTRATION DETAILS

Entry limited to 30 participants on first come first serve basis.

Course fee includes breakfast, tea, lunch and course kit.

REGISTRATION CONTACT

Prof. J. B. Kulkarni 7588290710

E-mail: MLCI2015@gmail.com

ACCOMMODATION

Accommodation (if required) will be provided to the out station (Ladies and Gents) participants on shared basis free of cost (with prior information).

MODE OF PAYMENT (NEFT/DD) :

Please opt one of the payment mode as mentioned below.

- Demand Draft in favour of "SCOE Comp. Engg. Research Programme." Payable at Pune.
- NEFT account details :
Name : SCOE Comp. Engg., Research programme.
Bank Central Bank of India, Branch- STES
Account No.- 3010942358 IFSC : CBIN0284444.
- Send transactions details along with the registration form to the convener STTP-MLCI 2015

Address for correspondence :

To,

Prof. P. R. Futane- Head of Dept of Comp. Engg.

The Convener STTP-MLCI 2015.

STES' Sinhgad College of Engineering

Survey No. 44/1, Off Sinhgad Road,

Vadgaon (Bk.) Pune-411041.Maharashtra.

Ph. No.: 020-2435 4705, Fax:020-2435 7243

CHIEF PATRONS

Hon. Prof. M. N. Navale
Founder President, STES, Pune.

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Founder Secretary, STES, Pune.

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Vice President (HR), STES, Pune.

Hon. Mrs. Rachana Navale Ashtekar
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Principal, SCOE, Pune

Dr. Y. P. Reddy

Vice-Principal, SCOE, Pune

COORDINATORS

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ORGANIZING COMMITTEE

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Sinhgad Technical Education Society's

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 and 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.

Department of Computer Engineering

The Department of Computer Engineering established in 1996, is the first to start M.E. (Computer Engineering), as Specialization in Computer Networks in 2008 in University of Pune. Department is accredited thrice by the NBA (New Delhi)

Objectives of the STTP

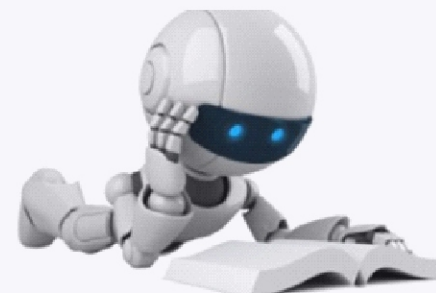
- Explore techniques, mathematical concepts, and machine learning algorithms to facilitate further research in this area.
- Provide pointers into the literature and exercise a project based on literature search and one or more research papers.
- Introduce the basic tools and techniques in Computational Intelligence such as Neural Networks and Genetic Algorithms from an application perspective to the students.
- Application of Computational Intelligence for classification and Pattern Matching Applications.
- Practicing software implementation of different concepts and algorithms covered in the course.

One week ISTE approved

Short Term Training Program
on

Machine Learning and
Computational Intelligence
(STTP-MLCI)

(25th - 29th May 2015)



Convener

Prof. P. R. Futane

Head, Department of Computer Engg.

Co-Convener

Dr. Mrs. Jayashree Rajesh Prasad

Associate Professor,

Department of Computer Engineering.

Mobile : 9890202229



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