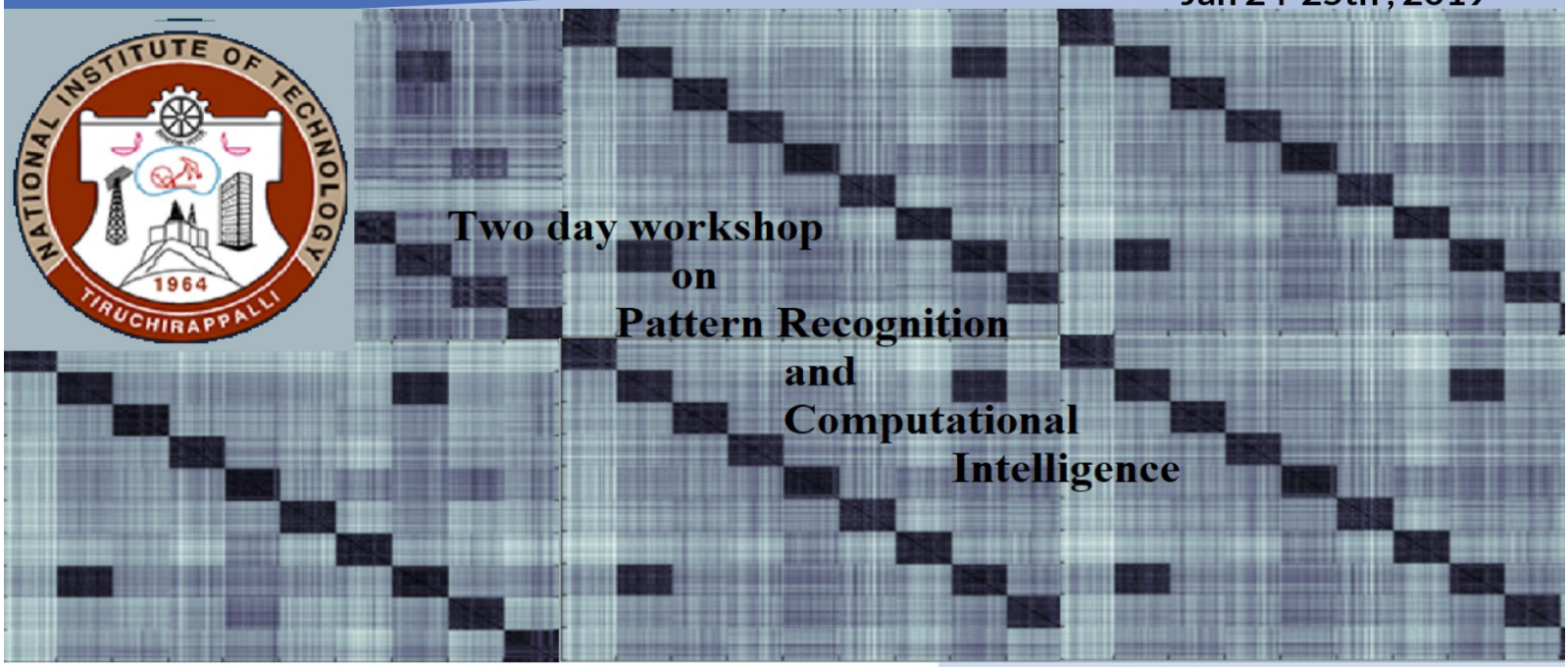
Department of ECE
National Institute of Technology Tiruchirappalli

Jan 24-25th , 2019



About the workshop

The objective of the workshop is to introduce the mathematical approach to Pattern recognition and the Computational Intelligence techniques.

This workshop mainly focus on the faculty, Research scholars, PG/UG students from multidisciplinary domain those who are interested in doing research using Machine learning approach.

This workshop will enhance the usage of MATLAB / Python based Machine learning tool boxes by the users from multidisciplinary domain.

Matlab illustrations are also shown

Topics covered

D Dimensionality reduction techniques

P Probabilistic approach

R Regression and the classification techniques

C Computational intelligence techniques

Registration

Link for ONLINE registration

https://goo.gl/forms/16vMC8I8ZNALA1EC3

Rs. 1000 inclusion of lunch and kit .

Fee is to be paid in demand draft drawn in favour of "The Director, NIT Tiruchirappalli", payable at Tiruchirappalli

Last date for online registration: ~~Dec 31st 2018~~
Extended upto: Jan 11, 2019 (Hard deadline)
Date of event: Jan 24-25th 2019

Note: Registrations is complete once we receive the hard copy of the Demand Draft.

FIRST COME FIRST SERVED BASIS

Maximum number of participants = 50

Registrations will be closed once the count reaches the maximum limit. Hurry!!!

For further details, please contact the following scholars

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Co-ordinator:

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Workshop Schedule

Day 1: 24-01-2019	
8.30 a.m. to 9.30 a.m.	Registration and Reception

Day 1 (FN): Dimensionality reduction techniques and Discriminant approach to classification	
9.30 a.m. to 11.00 a.m.	Principle Component Analysis, Linear Discriminant Analysis, Kernel Linear Discriminant Analysis, Independent Component Analysis, Discriminant classifier (Type 1,2,3), Support Vector Machine
11.00 a.m. to 11.10 a.m	Break
11.10 a.m. to 01.00 p.m.	Tutorial on Dimensionality reduction techniques and Discriminant approach to classification
1.00 p.m. to 2.00 p.m.	Lunch Break

Day 1 (AN): Regression techniques	
2.00 p.m. to 3.30 p.m	Regressive techniques: Linear regression, Minimum Mean Square Estimation, Bias-variance decomposition , Maximum Llikelihood technique, Least square techniques, Regularization, Kernel Trick for Regularization
3.30 p.m. to 3.40 p.m.	Break
3.40 p.m. to 5.00 p.m	Tutorial on Regression techniques

Day2: 25-01-2019 Day 2 (FN): Probabilistic approach to classification	
9.00 a.m. to 11.00 a.m.	Probabilistic approach to classification-Logistic regression, Gaussian Mixture model (Combinational model), Hidden Markov Model (Sequential model)
11.00 a.m. to 11.10 a.m	Break
11.10 a.m. to 1.00 p.m.	Tutorial on Probabilistic approach to classification
1.00 p.m. to 2.00 p.m.	Lunch break

Day 2 (AN): Computational intelligence	
2.00 p.m. to 3.30 p.m.	Particle Swarm Optimization, Ant colony technique, Bacterial Foraging, Introduction to Artificial Neural Network, Convolution Neural Network, LSTM, Generative Adversarial Network
3.30 p.m. to 3.40 p.m.	Break
3.40 p.m. to 5.00 p.m.	Tutorial on Computational intelligence