IWAML 2019

www.nitttrkol.ac.in/iwaml2019

2nd International Workshop on APPLIED MACHINE LEARNING

February 4-8, 2019 NITTTR Kolkata, Block-FC, Sector-III, Salt Lake, Kolkata

Smart systems are the need of modern society. Effort is on to develop systems intelligent enough to automatically take decisions in complex real-life situations. Thanks to the advancement in processing power, availability of enough training data, and progress in statistical methods that enabled us now to build such systems. Machine learning as a field is gradually becoming mature. We all know its power, ability, and usefulness to designing artificial intelligent systems. This workshop will provide an opportunity to learn ML from an application and mathematical perspective to unfold the magic it manifests. We are bringing leading experts from the industry and academia to jointly teach basic and advanced topics. Aim is to provide in-depth training on modern machine learning tools & techniques along with theoretical aspects. Every lecture would be complemented with lab sessions to expose the attendees to appropriate tools.

Workshop Topics:

Data Mining, Statistics, Feature, Curse of Dimensionality, Dimensionality Reduction and PCA, ROC Curve, FAR, FRR, CRR, F Measure, Classification: KNN, Decision Tree, Linear Model for regression and classification, Gradient descent and its variants, Regression with basis functions, SVM.

Bayesian Inference using graphical models, Bayesian Belief Networks, Generative models, MAP/ML Hypothesis, Bias Variance decomposition, Expectation Maximization, PAC learner, Hidden Markov Model, Monte Carlo Simulations, Learning Theory, VC-Dimension, Model Selection and Evaluation, Decision Theory, Information Theory.

Mixture model and expectation maximization, Clustering K-Means, Kernel Methods, Dual representation, Radial Basis functions network (RBFN), Constructing Kernels, Reinforcement Learning, Q-Learning, Cognitive Computing, Causality.

Convex Optimizations, Lagrangian Multiplier, Duality, Neural Networks, Backpropagation, RNN, Training and Hyper parameter tuning, SOM.

Deep Learning, Autoencoder, CNN, GAN, Dropout, LSTM, Familiarity with existing deep networks. Future perspective in Machine Learning.

Registration Fee:

Only limited seats are available. Registration fee is as below.

Category	Without Accommodation	With Accommodation
Industry Participants	Rs. 14,000	Rs. 20,000
Faculty Member	Rs. 10,000	Rs. 15,000
Regular Students	Rs. 8,000	Rs. 12,000
International Participants	USD 250	USD 300

Early registration would fetch a discount of Rs. 2000. Accommodation would be on shared basis. Registration link is available on workshop website **www.nitttrkol.ac.in/iwaml2019**

Important Dates and Deadlines:

Registration Starts	**15 Dec 2018**
Early Registration	**25 Jan 2019**
Late Registration	**30 Jan 2019**
Shortlist of Participants	**31 Jan 2019**
Workshop Dates	**04-08 Feb 2019**

Call for Participation

NITTTR Kolkata in association with BITS, Pilani, Pilani Campus invites participants to join IWAML2019 from February 4-8, 2019 at NITTTR Kolkata.

Call for Proposal

IWAML call proposals from distinguished researchers to deliver a lecture on emerging AI/ML topics. Proposals could be send through mail to the convener.

SPEAKERS:

Dr. Phalguni Gupta,
NITTTR Kolkata

Dr. Surya Prakash
IIT Indore

Dr. Aditya Nigam
IIT Mandi

Dr. Mitesh Khapra
IIT Madras

Dr. Arun Chauhan
IIIT Dharwad

Dr. A. K. Bhateja
DRDO, New Delhi

Dr. Filippo Geraci
IIT CNR Pisa (Italy)

Dr. Indrajit Saha
NITTTR Kolkata

Mr. Suresh K Choudhary
Sr. Data Scientist NDS

Dr. Kamlesh Tiwari
BITS Pilani

Some more experts, from other premier institutions may also join.

CONTACT:

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