

# IWAML 2018

<http://www.nittrkol.ac.in/iwaml2018/>

## International Workshop Applied Machine Learning



February 19-23, 2018

NITTR Kolkata, Block-FC, Sector-III, Salt Lake, Kolkata 700106, INDIA

<b>[Day-01] Monday February 19, 2018</b>		
08:30-09:00	Registration	
09:00-09:10	Inauguration	Welcome Address by Dr. Indrajit Saha
09:10-09:20		Address by Chief Petron Dr. Phalguni Gupta
09:20-09:25		Aim of the Course by Dr. Kamlesh Tiwari
09:25-09:30	Break	
09:30-10:00	Course Detailed Outline by Dr. Kamlesh Tiwari	
10:00-10:15	Introduction of Speakers by Dr. Indrajit Saha	
10:15-11:30	Session-01 Dr. Kamlesh Tiwari	Introduction to ML, Data Mining, Statistics, Feature, Curse of Dimensionality, Dimensionality Reduction and PCA, ROC Curve, FAR, FRR, CRR, F Measure
11:30-11:45	Tea Break	
11:45-13:00	Session-02 Dr. Kamlesh Tiwari	Concept Learning, VC Dimension
13:00-14:00	Lunch Break	
14:00-15:00	Session-03 Dr. Kamlesh Tiwari	Classification: KNN, Decision Tree
15:00-15:15	Tea Break	
15:15-16:15	Session-04 Dr. Arun Chauhan	Linear Model for regression and classification, Regression with basis functions
16:15-18:15	Session-05 Dr. Sudhir Rawat	Azure Hands-On session on Machine Learning
<b>[Day-02] Tuesday February 20, 2018</b>		
09:30-10:30	Session-06 Dr. Kamlesh Tiwari	PAC learner, Monte Carlo Simulations, Learning Theory, Model Selection and Evaluation, Decision Theory, Information Theory
10:30-11:30	Session-07 Dr. Arun Chauhan	Lagrangian Multiplier, SVM
11:30-11:45	Tea Break	
11:45-13:00	Session-08 Dr. Kamlesh Tiwari	MAP/ML Hypothesis, Bias Variance decomposition
13:00-14:00	Lunch Break	
14:00-15:00	Session-09 Dr. Arun Chauhan	Bayesian Inference, Graphical and Generative models, Bayesian Belief Networks, Mixture model, expectation maximization
15:00-15:15	Tea Break	
15:15-16:15	Session-10 Dr. Kamlesh Tiwari	Reinforcement Learning, Q-Learning, Cognitive Computing, Causality. Kernel Methods, Dual representation, Constructing Kernels
16:15-18:15	Session-11 Dr. Sudhir Rawat	Azure Hands-On session on Machine Learning

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### [Day-03] Wednesday February 21, 2018

09:30-10:30	Session-12 Dr. Indrajit Saha	Clustering K-Means, Fuzzy C-Means and Multi-objective Clustering
10:30-11:30	Session-13 Dr. Arun Chauhan	Hidden Markov Model
11:30-11:45	Tea Break	
11:45-13:15	Session-14 Dr. A K Bhateja	<b>Special Lecture:</b> Biometric Based Fuzzy vault
13:15-14:00	Lunch Break	
14:00-15:00	Session-15 Dr. Kamlesh Tiwari	Convex Optimizations, Duality, Social media analytics, knowledge graph, hotlink assignment
15:00-15:15	Tea Break	
15:15-16:15	Session-16 Dr. Badrinath GS	Challenges and Future Path
16:15-18:15	Session-17 Dr. Sudhir Rawat	Azure Hands-On session on Machine Learning

### [Day-04] Thursday February 22, 2018

09:30-10:30	Session-18 Dr. Kamlesh Tiwari	Neural Networks, Backpropagation, RNN, Training and Hyper parameter tuning, Radial Basis functions network (RBFN)
10:30-11:30	Session-19 Dr. Aditya Nigam	Deep Learning, Autoencoder, CNN
11:30-11:45	Tea Break	
11:45-13:00	Session-20 Dr. Ajit Balakrishnan	<b>Special Lecture:</b> Text mining to explore "How do Indian Political Parties Differ?"
13:00-14:00	Lunch Break	
14:00-15:00	Session-21 Dr. Aditya Nigam	GAN, Dropout, LSTM, Familiarity with existing deep networks.
15:00-15:15	Tea Break	
15:15-16:15	Session-22 Dr. Vinay Namboodiri	ML in Computer Vision
16:15-18:15	Session-23 Dr. Sudhir Rawat	Azure Hands-On session on Machine Learning
18:15-18:45	Session-24 Dr. Phalguni Gupta	Valedictory Session

### [Day-05] Friday February 23, 2018

09:30-11:30	Session-25 Dr. Aditya Nigam	Hands-On session on Deep Learning
11:30-11:45	Tea Break	
11:45-12:30	Open Discussion	
12:30-13:00	Photo Session	
13:00-14:00	Lunch Break	