AdCONIP Workshop on Process Data Analytics

Howard International House Taipei (Room 201)
28 May 2017, Taipei, Taiwan

Time	Speaker	Topics to be discussed
08:30 to 10:30	Sirish L Shah	Overview of the broad analytics area with emphasis on use in the process industry. Basic definitions and introduction to supervised and unsupervised learning: simple regression, classification and clustering. Data visualization methods; examination and analysis of data in a multivariate framework . Data quality assessment: Outlier detection; filtering and data segmentation.
10:30 to 10:45		Tea break
10:45 to 12:15	Biao Huang	Elements of statistical inference and learning including regression analysis using Logistic Regression, Lasso, Regression trees, Random Forests and Boosting. Bayesian methods. Industrial case studies
12:15 to 13:15		Lunch (2F)
13:15 to 14:45	Jiandong Wang	Alarm data analysis: Detection and removal of nuisance alarms; root-cause analysis of alarms and alarm floods. Case studies with applications in the power generation plants.
14:45 to 15:00		Tea break
15:00 to 16:30	Tongwen Chen	Data-based causality analysis for identification of process topology. Future areas to explore in the use of statistical learning, data science and analytics for improved process operation.
16:30 to 17:00		General Discussion