

## Advances in Process Data Analysis for Process Monitoring

**Dr. Lakshminarayanan Samavedam**  
**Associate Professor**  
**Dept. of Chemical & Bio-molecular Engg.,**  
**National University of Singapore**  
**Singapore 119077**

**Abstract:** Fault detection and diagnosis are very important for complex modern industrial plants in order to ensure safety of plant personnel and operating equipment & to prevent economic losses. Advances in instrumentation and computing are making the collection, processing and analysis of data possible and convert them into proactive strategies. Benefits of good FDD include improved productivity, enhanced profits, higher operational efficiency, and environmental sustainability. This talk intends to provide an overview of the developments and challenges in the area of fault detection and diagnosis with respect to both continuous and batch processes.



**Bio sketch of the Speaker:** Dr. Lakshminarayanan is an Associate Professor at NUS and has appointments in the Faculty of Engineering, Residential College 4 and at the University Scholars Programme. He is currently the Master of Residential College 4 at NUS UTown. Laksh has more than 90 publications in leading chemical and biomedical journals and has presented over 125 Conference papers including several keynote and semi-plenaries at international conferences. He is also a recognized teacher/educator at NUS and has consulted for several leading schools in Asia on matters related to teaching and learning.