



***EE Seminar Series &  
Dallas Chapter of IEEE Signal Processing Society Present***

## **Applied Data Analysis Using MATLAB - "Catching the Wind"**

**Dr. Jiro Doke**  
**Senior Application Engineer, MathWorks Inc.**

**11am, Wednesday, October 27, 2010  
ECSS 2.102 (TI Auditorium)**

In this seminar, the use of MATLAB for data analysis from data access through visualization and modeling is discussed. Using measured wind data for wind farm siting, a MathWorks engineer will demonstrate the use of MATLAB and data analysis products for the entire data analysis and modeling process. Seminar highlights include:

- Importing measured data recorded from a data logger
- Performing data quality assurance tests for erroneous and missing data
- Exploratory data analysis and visualization, including wind rose plots and velocity histograms
- Turbine performance estimation
- Automating repetitive data analysis and reporting tasks

This seminar is designed for scientists and engineers in industry and academia needing to accelerate their data analysis and modeling tasks.

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Jiro joined The MathWorks in May 2006 as a senior application engineer. He received his B.S. from Georgia Institute of Technology and Ph.D. from the University of Michigan, both in Mechanical Engineering. His Ph.D. research was in biomechanics of human movement, specifically in human gait. His experience in MATLAB comes from extensive use in graduate school, using the tool for data acquisition, analysis, and visualization.

**For more information on the Dallas Chapter of IEEE Signal Processing Society and directions to UTD, see <http://www.utdallas.edu/~kehtar/ieee-sp>**