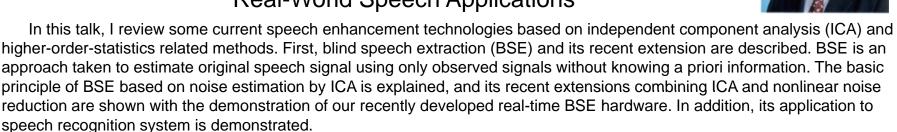
## Erik Jonsson School of Engineering and Computer Science Department of Electrical Engineering Lecturer Series 2011 and Dallas Chapter of IEEE Signal Processing Society

Present

## Prof. Hiroshi Saruwatari Nagoya University, Japan High-Quality Blind Signal Extraction in Real-World Speech Applications



Next, for a mitigation of an artifact arising in nonlinear signal processing like BSE, I introduce a new mathematical metric of musical noise generation based on higher-order statistics pursuit. This is motivated by new findings that the amount of musical noise is highly correlated with a change of the 4th-order statistics of the signal. I show some applications of this metric successfully used in speech enhancement study.

Date: Wed, Sept. 28, 2011

Time: 10:30 a.m.

Place: Engineering and

**Computer Science Complex** 

**UTD Campus** 

TI Auditorium 2.102

<u>Biographical Statement</u>: Hiroshi Saruwatari received the B.E., M.E. and Ph.D. degrees in electrical engineering from Nagoya University, Japan, in 1991, 1993 and 2000, respectively. He is currently an Associate Professor of Nara Institute of Science and Technology, Japan. His research interests include noise-robust speech processing, array signal processing and BSS. He received paper awards from IEICE in 2001 and 2006, from TAF in 2004 and 2009, and from IEEE-IROS2005 in 2006. He won the first prize in IEEE MLSP2007 Data Analysis Competition for BSS.

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