

SenSIP Graduate Seminar Series

Performance on Sparse Array

Presenter: Yu Rong, PhD Candidate

November 13 (Friday), 2015, 11:00AM

Room: GWC 487

Abstract

In a limited sensor network with more incoming signals in the environment, the sparse array can be implemented. Compared to the standard uniform linear array, given the same number of sensor elements, such sparse arrays offer a significant improvement in terms of both estimation accuracy and the estimated number of uncorrelated sources. Besides, people are motivated to employ sparse to save cost and deal with complex geometry. In this talk, the above mentioned performance improvement will be demonstrated through various scenarios. In addition, a numerical Receiver Operating Characteristics (ROC) analysis will be presented as well. Finally, the limitations of current study and possible future topics will be identified.



Biography:

Yu Rong graduated with MS degree from University of Maryland, College Park. Since January, 2013 he has been pursuing the PhD degree at Arizona State University under Dr. Daniel W. Bliss. His primary research area is on developing algorithm and performance bound on virtual arrays.

Refreshments

Upcoming Student Seminars:

Jinjin Li, Nov. 20, 2015

Ahmad Salim, Dec. 4, 2015

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