

UTC INSTITUTE FOR ADVANCED SYSTEMS ENGINEERING FACULTY CANDIDATE

Insights into Large Complex Systems via Random Matrix Theory

Random matrix theory is a useful tool to understand the statistical behavior of various large complex systems in engineering and applied sciences. In this talk, we will present our recent study of products of random matrices with applications to communication systems and statistical physics. We will also briefly discuss our journey on applications of random matrix theory to signal processing, coding theory, and machine learning.

Lu Wei

Lu Wei received his Bachelor of Engineering degree from Xi'an Jiaotong University, China, Master of Science degree (with distinction) from Helsinki University of Technology, Finland, and Doctor of Science degree (with distinction) from Aalto University, Finland, in 2006, 2008, and 2013, respectively. Between April 2013 and August 2015, he held a postdoctoral position with the Department of Mathematics and Statistics, University of Helsinki, Finland. He is currently a Postdoctoral Fellow with the School of Engineering and Applied Sciences, Harvard University, USA. His research interests lie in random matrix theory with applications to large complex systems.

Monday, May 23, 2016

10:15am – 11:00am and 2:00pm – 3:00pm

UConn, Storrs Campus – ITE Building 336

[To view live webcast at 10:15am please click here](#)

[To view live webcast at 2:00pm please click here](#)

Upcoming Distinguished Lectures

10/06/16 – Olivier de Weck
When is complex too complex?
Graph energy, proactive complexity
management and the first law of
systems engineering

10/17/16 – Wei Chen
Design under uncertainty;
multidisciplinary design
optimization; simulation-
based design

Upcoming Seminars

09/08/16 – Chris Ha
Think Like a Customer, Act
like a Startup in Analytics Space

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