

International Workshop on Signal Processing (IWSP 2018)

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Kish Island

Matrix completion: a random matrix approach

by *Dr. Farzan Haddadi*

Abstract:

Matrix completion is a key problem in many big data and signal processing applications. Users share dispersed information about their interests with internet services like Amazon, Netflix, social networks and etc. These data can be used to build a user-content interest matrix. In mathematical formulation, this means to observe random small parts of a low-rank matrix to be reconstructed to understand users' interest in other contents or goods. This observation process results in a semi-random matrix. Though, it has been largely addressed as a convex optimization problem. In this talk we introduce a new approach to matrix completion based random matrix theory and develop an example result which paves the way for a speedy method of adaptive matrix sampling.

About the speaker:

Dr Farzan Haddadi earned his BS, MS, and PhD degrees from Sharif University of Technology in 2001, 2003, and 2009, respectively. He joined Iran university of science and technology in 2011 as an assistant professor in communication systems. His area of interest in compressed sensing, estimation and detection theory.

Location

Workshop venue: Iran Telecommunication Research Center (ITRC), North Kargar st., Tehran, Iran.

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