Math 278C: Optimization and Data Science Seminar

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Some Methods For Canonical Polyadic Decomposition Of Third-Order Tensors

Abstract:
Every tensor is a sum of rank-1 tensors and the decomposition in a minimal number is called canonical polyadic decompositions. In this talk, we will introduce some decomposition methods for third-order tensors based on standard linear algebra. They all reduce tensor decomposition problems to matrix decomposition problems. Generalized Schur decomposition, simultaneous matrix diagonalization, and generalized eigenvalue decomposition will be used respectively.

Host: Jiawang Nie

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