An Algorithmic Overview of Phase Retrieval

by

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Abstract
Phase retrieval arises from the optics and engineering imaging sciences, such as X-ray coherence diffraction. It is to reconstruct the signal from its module of Fourier transform. Its difficulty results from the missing phase information. Besides its intrinsic importance in optical imaging, its connection to low rank matrix completion and provably nonconvex optimization makes its renew interests. A large body of researches focus on the numerical algorithms from different modelings. In this talk, an overview of the algorithms is given. The differences between the convex and nonconvex algorithms are highlighted and the recent developments are also presented.

Date: Tuesday, 17 October 2017
Time: 3:00p.m. – 4:00p.m.
Venue: Room 2408, Academic Building (near Lifts 17 & 18), HKUST

All are welcome!