
Accelerated computation and minimax rate of kernel Stein discrepancy*

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Abstract

Kernel Stein discrepancies (KSDs) are among the most powerful tools to quantify goodness-of-fit, with numerous successful applications. The aim of these talks is to understand the computational-statistical tradeoffs of KSD estimation: the first talk will focus on an accelerated scheme while preserving the statistical accuracy of the classical quadratic-time KSD estimator; the second presentation will establish the optimal rate at which KSD can be estimated.

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[†]Part-1 is joint work with Florian Kalinke and Bharath K. Sriperumbudur; paper; Part-2 is joint work with Jose Cribreiro-Ramallo, Agnideep Aich, Florian Kalinke, and Ashit Baran Aich; paper.