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Global Testing for Dependent Bernoullis

MONDAY, March 1, 2021 at 4:00 PM Via Zoom (session information will be e-mailed to subscribers)

ABSTRACT

We study the above questions when the Bernoullis are dependent, and the dependence is modeled by a graphical model (Ising model). In this case, contrary to what typically happens, dependence can allow detection of smaller signals than the independent case. This phenomenon happens over a wide range of graphs, for both arbitrary signals and segment signals.

This talk is based on joint work with Nabarun Deb, Rajarshi Mukherjee, and Ming Yuan.

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