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REGRESSION SERVERS FOR CONFIDENTIAL DATA

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ABSTRACT

Following a brief discussion of some of the disclosure limitation techniques studied at the National Institute of Statistical Sciences, we expand on our work on regression servers. A regression server is a data dissemination system that returns some of the output generated by regression analyses in response to user queries. Considering the interactions between the responses to determine the collective information released, and therefore the permissible releases, is non-trivial and requires careful study. We present in detail work on the special case where the data contain a sensitive variable whose regressions must be protected.

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