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Bounds on CVaR with given Marginals and Counterparty Credit Risk

We consider the problem of bounding conditional value-at-risk of a random variable that is a nonlinear function of two sets of risk factors whose marginal distributions are known, but whose joint distribution is unknown. We will discuss theoretical results including an analogue of the Kantorovich duality from optimal transport, and convergence and error distributions for problems with simulated data. Applications to counterparty credit risk will also be discussed.