

Scarf's Lemma and Stable Matchings (mechanism design)

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Abstract:

The elegance and simplicity of Gale and Shapley's deferred acceptance algorithm (DA) has made it the algorithm of choice for determining stable matchings in a variety of settings. Each setting has imposed new demands on the algorithm. Among them are to how to handle complementarities and distributional constraints. However, the simplicity of the DA makes it difficult to accommodate these new considerations except in special cases. In this talk I will outline an alternative approach based on Scarf's lemma for tackling such problems. This is based on joint work with Thanh Nguyen.