

Stable Sharing

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Abstract

We propose a simple model in which agents are matched in pairs in order to complete a task of unit size. The preferences of agents are single-peaked and continuous on the amount of time they devote to it. Our model combines features of two models: assignment games ([Shapley and Shubik \(1971\)](#)) and the division problem ([Sprumont \(1991\)](#)). We provide an algorithm (Select-Allocate-Match) that generates a stable and Pareto efficient allocation. We show that stable allocations may fail to exist if either the single-peakedness or the continuity assumption fail.

JEL classification: C78; D47; D71

Keywords: Job sharing; Matching; Stability; Pareto efficiency

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