

# N-Person Stochastic Games with Upper Semi-Continuous Payoffs

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## Abstract

Every  $n$ -person stochastic game with a countable state space, finite action sets for the players and bounded, upper semi-continuous payoffs has an  $\epsilon$ -equilibrium for every  $\epsilon > 0$ .

Key words: stochastic game,  $\epsilon$ -equilibrium, upper semi-continuous payoff, negative daily reward.

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