

运筹学与信息科学研究所

Department of Operations Research and Information Science

学术报告

题目: Pairwise stability in network formation games:
Computation and applications

报告人: 占杨 助理教授, 南京大学

时间: 6月24日(星期一) 14:00 - 15:00

地点: 数学院南楼 N620

摘要: Networks are at the forefront of research in economics and operations research as powerful tools to model social and economic interactions. We develop an effective algorithm to compute equilibria in network formation games, where agents have concave utility functions. To do so, we reformulate the concept of pairwise stability as a Nash equilibrium of a non-cooperative game played by the nodes and links in the network and adapt the tracing procedures for non-cooperative games to the network formation problem. Finally, we apply the algorithm to several examples in the literature and obtain a number of novel insights.

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