CASTS TALKS

Special Program in Applied Mathematics

and Applied Mechanics

Supply chain contracting: a game-theoretic perspective

2014 - 03 - 05 (Wed.)
15:30 - 18:00
308, Mathematics Research Center Building (ori. New Math. Bldg.)

Game theory, as a branch of mathematics, has been recognized as one of the most important tools for studies in microeconomics, operations research, industrial engineering, management science, and many other fields. In this talk, we introduce how game theory has been applied on the contracting issues in supply chain management. We will introduce various contract formats, including two-part tariffs, return contracts, and revelation mechanisms, and discuss how they may be used to reduce supply chain inefficiency and generate win-win situations. The impacts of incentives and information will be particularly emphasized.