



Economic Foundations and Game Theory

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Presentation Overview



- Economics
 - Economics of Trading Agents
 - Economic modeling
 - General Equilibrium and its Limitations
 - Mechanism design
 - Introduction to Game Theory
 - Pareto Efficiency and Dominant strategy
 - Nash Equilibrium
 - Mixed Strategies
 - Extensive Form and Sub-game Analysis
 - Advanced Topics in Game Theory

Economics



- Study of the allocation of limited resources in a society of self-interested agents.
- Essential features:
 - Agents are rational;
 - Decisions concern the use of resources;
 - Prices significantly simplify the allocation process.
- Note: agents are not assumed to be software entities here.