

PPE International Summerschool 2016, Mumbai, India

Course: Collective Choices

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Lectures:

Lecture 1: Social choice functions

Lecture 2: Social welfare functions, Restricted domains and Voting

Lecture 3: Ranking methods

Lecture 4: Cooperative games

Lecture 1: Social choice functions

1a. (Individual) preference relations

1b. Social choice situations

1c. Social choice functions

 Scoring rules (Borda)

 Majoritarian rules (Condorcet)

1d. Properties of social choice functions

Lecture 2: Social welfare functions, Restricted domains and Voting

2a. Social welfare situations

2b. Properties of social welfare functions

2c. Single-peaked preferences

2d. Intermediate preferences

2e. Dubins voting over candidates

2f. Voting over two alternatives

2g. Voting power measures

Lecture 3: Ranking methods

3a. Directed graphs

3b. Score functions

3c. Properties of score functions

3d. Eigenvector scores

3e. Application to social choice

Lecture 4: Cooperative games

4a. Cooperative games

4b. The Core

4c. The Shapley value

4d. Application to ranking, voting and social choice

4e. Axiomatizations

4f. The Banzhaf value

4g. Equal division