

INTERNATIONAL CONFERENCE ON GAME THEORY

July 15 to July 18, 1991

Stony Brook, New York

PROGRAM

MONDAY, JULY 15

Harriman Hall, Room 137

Chair: Beth Allen

- 9:30-10:45 **T. Bewley**: Knightian Decision Theory
11:00-12:15 **R. Aumann and A. Brandenburger**: Epistemic Conditions for Nash Equilibrium

Learning and Bayesian Models -- Harriman Hall, Room 137

Chair: Sylvain Sorin

- 2:30-3:00 **M. Kandori, G. Mailath, and R. Rob**: Learning, Mutation, and Long-Run Equilibria in Games
3:00-3:30 **N. Shimkin**: Asymptotically Efficient Strategies in Repeated Games with Incomplete Information
3:30-4:00 **B. Sloth, E. Hendon, H.J. Jacobson, and M.T. Nielsen**: A Learning Process for Games
4:30-5:00 **H. Haller, J. Eichberger, and F. Milne**: Naive Bayesian Learning in 2 x 2 Matrix Games
5:00-5:30 **D. Monderer and D. Samet**: Stochastic Common Learning
5:30-6:00 **R. Rosenthal**: Rules of Thumb in Games

Shapley Value and Fair Division -- Harriman Hall, Room 104

Chair: Stef Tijs

- 2:30-3:00 **T.E.S Raghavan and C. Hsiao**: Shapley Value for Multi-Choice Cooperative Games (I)
3:00-3:30 **A. Nowak and T. Radzik**: Weighted Values for n -Person Games
3:30-4:00 **I. Dragan**: An Alternative Algebraic Definition of the Weighted Shapley Value
4:30-5:00 **Y. Chun**: On the Symmetric and Weighted Shapley Value
5:00-5:30 **W. Thomson**: Manipulation and Implementation of Solutions to Fair Division
5:30-6:00 **J. Legut, J. Potters, and S. Tijs**: Economies with Land: The NTU-Case

6:15-6:45 *Harriman Hall, Room 137*

Special Lecture

Professor Sun Juan

Director, Research Center
Beijing Institute of Management
Chinese Academy of Sciences

"Reforming the Chinese Economy: Two Major Problems"

TUESDAY, JULY 16

Harriman Hall, Room 137

Chair: Marilda Sotomayor

9:30-10:45 **E. Kohlberg**: Rationale for Perfect Equilibrium

10:45

11:00-12:15 **S. Hart and A. Mas-Colell**: N-Person Non-Cooperative Bargaining

12:15

Refinement of Equilibria -- Harriman Hall, Room 137

Chair: John Hillas

2:30-3:00 **J. Swinkels**: Evolutionary Stability with Equilibrium Entrants

3:00-3:30 **S. Elmes**: Equally Informative Games: A Definition and Characterization

3:30-4:00 **B. Chakravorti and C. Kahn**: Universal Coalition-Proof Equilibrium

Issues in Cooperative Games-- Harriman Hall, Room 104

Chair: Olga Bondareva

2:30-3:00 **M. Chwe**: A Far-Sighted Approach to Coalitional Stability

3:00-3:30 **E. Einy and B. Peleg**: Linear Measures of Inequality for Cooperative Games

3:30-4:00 **C. Chang and F.C. Hsiag**: An Example on Quasi-Zero-Monotonic Games

Repeated Games and Bounded Rationality -- Harriman Hall, Room 137

Chair: Abraham Neyman

4:30-5:00 **J. Gata**: A Note on Decision-Making Complexity in the Context of the Repeated Prisoners' Dilemma

5:00-5:30 **S. Chakrabarti**: Finite Complexity, Bounded Recall and the Folk Theorem in Repeated Games

5:30-6:00 **F. Thuijsman**: Repeated Games with Restricted Memory Size

The Nucleolus -- Harriman Hall, Room 104

Chair: Michael Maschler

4:30-5:00 **T.S.H. Driessen**: Coincidence of and Collinearity Between Game Theoretic Solutions

5:00-5:30 **P. Sudholter and J. Rosenmüller**: The Nucleolus of Homogeneous Games with Steps

5:30-6:00 **Y. Yanovskaya:** The Excess Functions and Nucleoli in Cooperative Games

Issues in Noncooperative Games -- Harriman Hall, Room 108

Chair: Thomas Muench

4:30-5:00 **J. Abdou:** Solvability of Game Forms, Some Results in the Infinite Case

5:00-5:30 **M. Sobel:** Discounting and Risk Neutrality

5:30-6:00 **E. Feinberg and A. Schwartz:** Markov Decision Models with Weighted Discounted Criteria

WEDNESDAY, JULY 17

Harriman Hall, Room 137

Chair: Robert Aumann

9:30-10:45 **B. Peleg and A. Shmida:** Short-Run Stable Matching Between Bees and Flowers

11:00-12:15 **M. Sotomayor:** Stability Versus Pairwise Stability in the Two-Sided Many-to-Many Matching

Issues in Cooperative Games -- Harriman Hall, Room 137

Chair: Irinel Dragan

2:30-3:00 **S.H. Tijs, I.J. Curiel, J.A.M. Potters, V.R. Prasad, and B. Veltman:** Sequencing and Cooperation

3:00-3:30 **T. Quint:** Lattices and Two-Sided Matching Markets

4:00-4:30 **J. Zhao:** The Hybrid Solutions of an N-Person Game

4:30-5:00 **Y. Zhou:** Strategy Domination and the Related Cores

5:00-5:30 **L. Zhou:** An 'Average' Lyapunov-Type Convexity Result and Some Core Equivalence Results

Evolutionary Stable Equilibria -- Harriman Hall, Room 104

Chair: Elon Kohlberg

2:30-3:00 **S. Scotchmer and E. Dekel:** On the Evolution of Optimizing Behavior

3:00-3:30 **J. Swinkels:** On the Stability of Evolutionary Stability: From Maynard Smith to Kohlberg-Mertens

Repeated Games -- Harriman Hall, Room 104

Chair: Joseph Abdou

3:30-4:00 **B. De Meyer:** Repeated Games and the Central Limit Theorem

Knowledge and Equilibria -- Harriman Hall, Room 104

Chair: Dov Monderer

4:30-5:00 **G. Bonanno:** Knowledge and Beliefs in Extensive Games

5:00-5:30 **R. Nau:** The Incoherence of Agreeing to Disagree

Imperfect Competition -- Harriman Hall, Room 108

Chair: Israel Zang

- 3:30-4:00 **A. Urbano:** Duopoly Experimentation: Cournot and Bertrand Competition
4:30-5:00 **S.J. Turnbull:** Organizations as Teams of Automata
5:00-5:30 **H. Peters, H. van der Stel, and T. Storcken:** Pareto Optimality, Anonymity, and Strategy-Proofness in Location Problems

Harriman Hall, Room 137

- 5:30-7:00 **Special Session:**
Research Ideas by Students

THURSDAY, JULY 18

Harriman Hall, Room 137

Chair: Walter Trockel

- 9:30- **B. Allen:** Market Games with Asymmetric Information and Non-Transferable
10:45 Utility: Representation Results and the Core

Industrial Organization I -- Harriman Hall, Room 137

Chair: Reiko Aoki

- 11:00- **S. Lippman and J. Mamer:** Innovation with a Large First-Mover Advantage
11:30
11:30- **W. Leininger:** Patent Competition and Rent Dissipation: Do Incumbents Move
12:00 First?

Fair Assignments and Exchange Economies --

Harriman Hall, Room 104

Chair: Olga Bondareva

- 11:00- **L. Zhou:** Strictly Fair Allocations in Large Exchange Economies
11:30
11:30- **A. Alkan:** Monotonicity and Fair Assignments
12:00

Bargaining -- Harriman Hall, Room 108

Chair: William Thomson

- 11:00- **B. Bensaïd and R. Gary-Bobo:** An Exact Formula for the Lion's Share: A Model
11:30 of Pre-Play Negotiation
11:30- **O. Bondareva and T. Kulakovskaia:** Extensive Coverings and Core-Stability in
12:00 Cooperative Games

Strategic Equilibria -- Harriman Hall, Room 137

Chair: Bezalel Peleg

- 2:00-2:30 **M. Maschler, J.L. Ferreira, and Y. Gilboa:** How to Play a Game When Utilities
Change in Times
2:30-3:00 **B. Shitovitz:** On the Optimistic Stable Standards of Behavior for a Class of
Continuous Game Trees with Finite Outdegree
3:00-3:30 **P. Coughlin:** Pure Strategy Equilibria in a Class of Systems Defense Games
4:00-4:30 **O. Bondareva:** The Simplest Dynamic Game-Theoretical Model of an Economy

4:30-5:00 **J. Zhao and M. Shubik**: A Strategic Market Game of a Finite Exchange Economy with a Mutual Bank

5:00-5:30 **L. Kranich**: Equity, Efficiency and Incentives

Repeated Games and Incomplete Information --

Harriman Hall,

Room 104

Chair: Frank Thuijsman

2:00-2:30 **A. Dasgupta**: Sub-Game Perfect Equilibria in Discounted Repeated Games with Nonstationary Discounting

2:30-3:00 **A. Blume**: Intra-Play Communication in Repeated Games

3:00-3:30 **J. Sachs and J.P. Langlois**: An Integrative Approach to Subgame Perfect Reaction Function Equilibria in Discounted Supergames

4:00-4:30 **J. Bergin and D. Bernhardt**: Anonymous Sequential Games with General State Space

4:30-5:00 **R. Serrano and O. Yosha**: Information Revelation in a Market with Pairwise Meetings: The One-Sided Information Case

5:00-5:30 **A. Heifetz**: Hierarchic Constructions of Incomplete-Information Models

Industrial Organization II -- Harriman Hall, Room 108

Chair: Suzanne Scotchmer

2:00-2:30 **I. Zang and M. Kamien**: Merger by Repeated Acquisition

2:30-3:00 **D. Salant and N. Gandal**: Movie Wars: Competition Between Telephone and CATV Companies for Programming

3:00-3:30 **S. Govindan**: Stability and the Chain-Store Paradox

4:00-4:30 **N. Gandal, A. Fishman, and O. Shay**: Planned Obsolescence as an Engine of Technological Progress

Issues in Cooperative Games -- Harriman Hall, Room 108

Chair: Ahmet Alkan

4:30-5:00 **A. van den Nouweland**: Cores and Related Solution Concepts for Multi-Choice Games

5:00-5:30 **G. Engl and S. Scotchmer**: The Core and the Hedonic Core: Equivalence and Comparative Statics