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Professor Indrajit Ray

Professor of Economics (Chair in Economic Theory)

Department of Economics (/schools/business/departments/economics/index.aspx)

Contact details

Telephone +44 (0) 121 414 8566 (tel:+44 121 414 8566)

Fax +44 (0) 121 414 7377

Email i.ray@bham.ac.uk (mailto:i.ray@bham.ac.uk)

Department of Economics
JG Smith Building
University of Birmingham
B15 2TT

About

Indra Ray works on communication in games, in particular, theoretical concepts such as implementation in correlated strategies, mediation in cheap talk games and applied topics such as correlation in oligopolies, strategic market games and environmental games. He also conducts experiments on notions of correlation, sunspots and cheap talk.

MY LINKS:

Homepage (http://www.socscistaff.bham.ac.uk/ray/)

CV (http://www.socscistaff.bham.ac.uk/ray/CV.pdf)

Feedback and office hours

Tuesday 10:30-12

Thursday 10:30-12

Qualifications

Bachelor of Statistics (with *First Class Honours*), Indian Statistical Institute, Calcutta, 1990.

Master of Statistics (with *Specialization in Economics*), Indian Statistical Institute, New Delhi, 1992.

Master of Arts in Economics (with *Grand Distinction*), *Universite Catholique de Louvain*, Louvain-la-Neuve, Belgium, 1993.

PhD in Economics (under the European Doctoral Program (EDP)), *CORE*, Louvain-la-Neuve, Belgium, 1996. (Visiting PhD Student, *London School of Economics*, *Tel Aviv University*, 1994)

Thesis title: ***Correlation, Coalitions & Strategic Games***.

Biography

Indra Ray received his PhD under the European Doctoral Programme in 1996 and became a chaired Professor in 2007. His area of academic research is Game Theory, Mathematical Economics and Experimental Economics. He is an ex-student of premier institutions such as *Indian Statistical Institute*, India and *CORE*, Belgium. He has previously taught at *University of York*, UK and *Brown University*, USA. He has published numerous research articles in international journals, has visited different universities in several countries to present his research in workshops and seminars.

Teaching

Undergraduate:

Microeconomics B

Game Theory

Undergraduate Extended Essay Supervision:

Game Theory

Graduate:

Game Theory

Postgraduate supervision

Chirantan Ganguly (http://www.qub.ac.uk/schools/QueensUniversityManagementSchool/Staff/DrChirantanGanguly/) (on *Games with Cheap Talk*) 2003 - 2007

(Currently, Lecturer in Queen's University Belfast)

Sonali Sen Gupta (http://www.lums.lancs.ac.uk/economics/profiles/sonali-sen-gupta/) (on *Correlation in Oligopoly*) 2008 - 2013

(Currently, Lecturer in Lancaster University)

Research

RESEARCH INTERESTS: Game Theory; General Equilibrium Theory; Social Choice Theory; Experimental Economics; Environmental Economics.

Other activities

Research Group Leader, Economic Theory

Member, Departmental Research Committee

Welfare Officer, Department of Economics (Spring 2014 only)

Organiser, Departmental Seminar Series

Member, Departmental Interview Panel

Publications

Published Articles in Refereed Journals:

1. Moulin, H., I. Ray and S. Sen Gupta 2013: "Improving Nash by Coarse Correlation." ***Journal of Economic Theory***, 150, 852-865.

2. Ray, I. and S. Snyder 2013: "Observable Implications of Nash and Subgame-Perfect Behavior in Extensive Games." ***Journal of Mathematical Economics***, 49(6), 471-477.

3. Ray, I. and S. Sen Gupta 2013: "Coarse Correlated Equilibria in Linear Duopoly Games." ***International Journal of Game Theory***, 42(2), 541-562.

4. Kar, A., I. Ray and R. Serrano 2010: "A Difficulty in Implementing Correlated Equilibrium Distributions." ***Games and Economic Behavior***, 69(1), 189-193.

5. Polemarchakis, H. and I. Ray 2006: "Sunspots, Correlation and Competition." ***Games and Economic Behavior***, 56(1), 174-184.

6. Carvajal, A., I. Ray and S. Snyder 2004: "Equilibrium Behavior in Markets and Games: Testing, Identification, and Comparative Statics." ***Journal of Mathematical Economics***, 40(1-2), 1-40.

7. Ray, I. 2001: "On Games with Identical Equilibrium Payoffs." ***Economic Theory***, 17(1), 223-231.

8. Ray, I. 2001: "Buying and Selling in Strategic Market Games." ***Economics Letters***, 71(1), 49-53.

9. Ray, I. and L. Zhou 2001: "Game Theory via Revealed Preferences." ***Games and Economic Behavior***, 37(2), 415-424.

10. Ray, I. 2000: "Consistency, Dummy and Independenceof Irrelevant Strategies for Strategic Games." ***Social Choice and Welfare***, 17(2), 217222.

11. De Fraja, G. and I. Ray 1999: "Slot Allocation: Competition between Firms when Consumers are Procedurally Rational." ***Mathematical Social Sciences***, 38(1), 71-81.

12. Ray, I. 1998: "Correlated Equilibrium as a Stable Standard of Behavior." ***Review of Economic Design***, 3(3), 257-269.

13. Ray, I. 1996: "Efficiency in Correlated Equilibrium." ***Mathematical Social Sciences***, 32(3), 157-178.

14. Ray, I. 1996: "Coalition-proof Correlated Equilibrium: A Definition." ***Games and Economic Behavior***, 17(1), 56-79.

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