

SOUVIK ROY

CONTACT INFORMATION

Assistant Professor,
Economic Research Unit,
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RESEARCH INTERESTS

Game theory, Mechanism design, Algebraic graph theory, Probability theory (percolation, random matrix), Number theory, Epistemic game theory.

EDUCATION

University of Maastricht, Maastricht, NETHERLANDS

Ph.D., 2007 - 2010

- Dissertation Topic: *Manipulability, Decomposability and Rationalizability*
- Advisor: Hans (H.J.M.) Peters.
- Co-advisor: A.J.A Strocken.

Indian Statistical Institute, Delhi, Delhi INDIA

M.Stat., 2004 - 2006

PROFESSIONAL EXPERIENCE

University of Caen, Caen FRANCE

Post Doctoral Fellow

December, 2010 - July, 2011

Indian Statistical Institute, Delhi, Delhi, INDIA

Lecturer

July, 2011 - December, 2013

Indian Statistical Institute, Kolkata, West Bengal, INDIA

Assistant Professor

January, 2014 -

TEACHING EXPERIENCE

Taught Statistics - I, Statistics - II, Actuarial Science, Real Analysis, Social Choice Theory, and Game Theory - I.

PUBLICATIONS

On the adjacency matrix of a block graph, with R. B. Bapat, *Linear and Multilinear Algebra* (2014), Volume 62, Issue 3, pages 406-418.

Multidimensional Mechanism Design in Single Peaked Type Spaces, with Anup Pramanik and Souvik Roy, *Journal of Economic Theory* (2014), Elsevier, Vol. 153, September 2014, Pages 1031-116.

Probabilistic strategy-proof rules over single-peaked domains, with Ton Storcken, Hans Peters and Arunava Sen, *Journal of Mathematical Economics* (2014), Elsevier, vol. 52(C), pages 123-127.

On the manipulability of approval voting and related scoring rules, with Hans Peters and Ton Storcken, *Social Choice and Welfare* (2012), Volume 39, Issue 2-3, pp 399-429.

The structure of strategy-proof random social choice functions over product domains and lexicographically separable preferences, with Shurojit Chatterji and Arunava Sen, *Journal of Mathematical Economics*, Volume 48, Issue 6, December 2012, Pages 353-366.

Implementation in multidimensional dichotomous domains, with Debasis Misra, *Theoretical Economics, Econometric Society*, vol. 8(2), May 2013.

Strategy proof partitioning, with Debasis Misra, *Games and Economic Behavior*, Volume 76, Issue 1, September 2012, pp 285-300.

Strategy-proof voting rules on a multidimensional policy space for a continuum of voters with elliptic preferences, with Hans Peters and Ton Storcken, *SERIEs: (2011)*, Volume 2, Number 4, 485-496.

BOOK CHAPTERS *The structure of voters' preferences induced by the Dual Culture Condition*, with William V. Gehrlein, University of Delaware, published as a chapter in a book being edited by Rudy Fara, Dennis Leech and Maurice Salles.

COMPLETED LOCAL INCENTIVE COMPATIBILITY WITH TRANSFERS, with Debasis Misra and Anup Pramanik.

A New Epistemic Characterization of Proper Rationalizability, with Andrs Perea, revised and resubmitted, *Games and Economic Behavior*.

On the generalization of Cayley Hamilton theorem for mixed discriminants, with R.B Bapat.

The equivalence between adjacent non-manipulability and strategy-proofness in voting domains, with Sonal Yadav and Arunava Sen.

Mechanism Design on Max Domain, with Satish Agarwal.

WORKING PAPERS *Oriented Percolation with Backbend*, with Paulo Cesar Manrique Miron, Rahul Roy and Anish Sarkar.

On the greatest prime divisor of a product of terms in an arithmetic progression with arbitrary common difference, with Shanta Laishram.

Matching with couples having non-responsive preferences, with Bhaskar Dutta and Debasis Mishra.

On the characterization of probabilistic matchings, with Arunava Sen, Rahul Deb.

Ordinal Bayesian Incentive compatible rules, with Dipjyoti Mazumdar, Arunava Sen, Bhaskar Dutta.

A fair rule for bipartite graphs, with Dipjyoti Mazumdar, Manipushpak Mitra.

Coalition Manipulability of approval, plurality and ante-plurality voting rules, with Vincent Merlin.

Structure of Strategy-proof rules on multidimensional restricted range, with Hans Peters.

On the extension of revealed preference, with Rahul Deb.

Minimal Dictatorial Cover and Maximal Possibility Cover of Domains, with Gopakumar Achuthankutty.

CONFERENCE PRESENTATIONS AND INVITED SEMINARS *International Meeting of Social choice and Welfare, Montreal, Canada 2008 (On the manipulability of approval voting and related scoring rules).*

Conference on Economic Design, Maastricht, Netherlands 2009. (A Foundation for Proper Rationalizability from an Incomplete Information Perspective).

Conference on Economic Design 2009, Bielefeld (Extreme point characterization of the probabilistic rules).

SCW conference in Moscow, 2010 (Extreme point characterization of the probabilistic rules).

Conference in Tilburg University, 2009 (On the manipulability of approval voting and related scoring rules).

Seminar lecture in Indian Statistical Institute, 2009 (On the manipulability of approval voting and related scoring rules).

Seminar lecture in Jawaharlal Nehru University, 2009 (On the manipulability of approval voting and related scoring rules).

Seminar lecture in University of CAEN, 2011.

SING Conference, Paris, 2011

PHD SUPERVISION Soumyarup Sadukhan (at Indian Statistical Institute, Kolkata, West Bengal INDIA)
Gopakumar Achuthankutty (at Indian Statistical Institute, Kolkata, West Bengal INDIA)

PROFESSIONAL ACTIVITIES

- Refereed articles for Social Choice and Welfare, Mathematical Social Sciences, Review of Economic Design, and Games and Economic Behavior.
- Organized *Workshop on Game Theory and Mechanism Design*, 2015 held at Indian Statistical Institute, Kolkata INDIA.

OTHER INTERESTS Playing musical instrument (mainly flute), Dancing (free style and folk), Drawing, Acting in fact I am interested in all forms of art.