

# CURRICULUM VITAE

DEBASIS MISHRA

Updated: February 2011

---

## CONTACT INFORMATION

### Planning Unit

Indian Statistical Institute  
7, SJS Sansanwal Marg  
New Delhi, India 110 016

Email: [dmishra@isid.ac.in](mailto:dmishra@isid.ac.in)

Web: <http://www.isid.ac.in/~dmishra>

Phone: +91-11-4149 3948

Fax: +91-11-4149 3981.

## ACADEMIC APPOINTMENTS

- 2006 Sept - Present    Assistant Professor  
                                 Planning Unit, Indian Statistical Institute, New Delhi
- 2005 Oct - 2006 May    Visiting Scientist, Dept. of Computer Science and Automation.  
                                 Indian Institute of Science, Bangalore, India.
- 2004 Sept - 2005 Aug    Post-doc Fellow in Operations Research.  
                                 Center for Operations Research and Econometrics (CORE)  
                                 Université Catholique de Louvain (UCL), Belgium.

## ACADEMIC VISITS

Toulouse School of Economics (2010 Summer); Department of Economics, Universitat Autònoma de Barcelona (2009 Winter); Department of Econometrics and Operations Research, Tilburg University (2008 Summer, 2007 Summer, 2006 Summer); Department of Quantitative Economics, Maastricht University (2008 Summer, 2007 Summer); Division of Engineering and Applied Sciences, Harvard University (2003 Summer); IBM-India Research Lab, New Delhi (2001 Summer).

## EDUCATION

- Ph.D.    University of Wisconsin, Madison, WI, USA.  
                 Industrial Engineering, August 2004.
- M.S.    University of Wisconsin, Madison, WI, USA.  
                 Industrial Engineering, December 2002.
- B.Tech.    Indian Institute of Technology (IIT), Kharagpur, India.  
                 Industrial Engineering and Management, June 1998.

## RESEARCH INTERESTS

combinatorial auction design, theory of auctions and mechanism design, cooperative games, aggregation theory.

## JOURNAL PUBLICATIONS

### ECONOMICS JOURNALS

1. *Separability and Aggregation of Equivalence Relations* (with Dinko Dimitrov and Thierry Marchant), Forthcoming *Economic Theory*, Accepted: January 2011.
  2. *A Characterization of the Average Tree Solution for Tree Games* (with Dolf Talman). *International Journal of Game Theory*, Volume 39, 2010, pp 105-111, Accepted: October 2009.
  3. *Characterization of Walrasian Equilibria of the Assignment Model* (with Dolf Talman). *Journal of Mathematical Economics*, Volume 46, Issue 1, 2010, pp 6-20. Accepted: May 2009
  4. *Multi-Item Vickrey-Dutch Auctions* (with David C. Parkes). *Games and Economic Behavior*. Volume 66, Number 1, 2009, pp 326-347. Accepted: April 2008.
  5. *Cost Sharing in a Job Scheduling Problem* (with Bharath Rangarajan). *Social Choice and Welfare*, Volume 29, Number 3, 2007, pp 369-382. Accepted: October 2006.
  6. *Ascending Price Vickrey Auctions for General Valuations* (with David C. Parkes). *Journal of Economic Theory*, Volume 132, Issue 1, 2007, pp 335-366. Accepted: November 2005.
  7. *Descending Price Multi-Item Auctions* (with Rahul Garg). *Journal of Mathematical Economics*, Volume 42, Issue 2, 2006, pp 161-179. Accepted: December 2005.
- US Patent 7472076 titled “Method for Conducting an Auction of a Plurality of Heterogeneous Items” was awarded based on research from this paper.

### ENGINEERING JOURNALS

1. *Vickrey-Dutch Procurement Auction for Multiple Items* (with Dharmaraj Veeramani). *European Journal of Operational Research*, Volume 180, Issue 2, 2007, pp 617-129.
2. *An Ascending Price Procurement Auction for Multiple Items with Unit Supply* (with Dharmaraj Veeramani). *IIE (Institute of Industrial Engineers) Transactions*, Volume 38, Number 2, 2006, pp 127-140.
3. *Performance Evaluation of Multi-Object Auctions* (with Sunil S. Reddy and Dharmaraj Veeramani), *Electronic Commerce Research Journal*, Volume 5, 2005, pp 293-307.

## SURVEYS, BOOK CHAPTERS, CONFERENCE PROCEEDINGS ETC.

1. *Efficient Iterative Combinatorial Auctions*. [Wiley Encyclopedia of Operations Research and Management Science](#), Wiley, 2010 (Forthcoming).
2. *Cycle Monotonicity in Scheduling Models* (with Manipushpak Mitra). In B. Basu, B. K. Chakrabarti, S. R. Chakravarty and K. Gangopadhyay (Edited), [Econophysics and Economics of Games, Social Choices and Quantitative Techniques](#), Pages-10-16, New Economic Window Series, Springer Verlag, Italia, Milan, 2010.
3. *Mechanism Design and Incentive Compatibility* (education briefing). [Indian Growth and Development Review](#), Volume 2, Issue 2, 2009, pp 183-187.
4. *An Introduction to Mechanism Design Theory* (a brief survey on the major works of Maskin and Myerson), [Indian Economic Journal](#), Volume 56, Number 2, 2008, pp 137-165.
5. *Optimal Mechanisms for Scheduling* (with Birgit Heydenreich, Rudolf Müller, and Marc Uetz), In the Proceedings of the [Workshop for Internet Economics \(WINE\), Lecture Notes in Computer Science 5385](#), Editors: C. Papadimitriou and S. Zhang, Springer, pp 362-372, 2008.
6. *Cost Sharing in a Job Scheduling Problem Using the Shapley Value* (with Bharath Rangarajan), In the Proceedings of the [6<sup>th</sup> ACM Conference on Electronic Commerce \(EC' 05\)](#), ACM, pp 232-239, 2005.
7. *Simple Primal-Dual Auctions are not Possible*, In the Proceedings of the [5<sup>th</sup> ACM Conference on Electronic Commerce \(EC' 04\)](#), ACM, pp 250-251, 2004.

## WORKING PAPERS

1. [Roberts' Theorem with Neutrality: A Social Welfare Ordering Approach](#) (with Arunava Sen). First version: November 2009; Current version: August 2010 (submitted).
2. [Minimum Cost Arborescences](#) (with Bhaskar Dutta). First version: December 2008; Current version: February 2011 (submitted).

## RECENT TALKS

- Conferences: IBM Research-Indian School of Business OR Day, Hyderabad, India, 2007; Delhi School of Economics Winter School, New Delhi, India, 2007; 3rd World Congress of Game Theory Society, Evanston, USA, 2008; Delhi School of Economics Winter School, Delhi, India, 2008; Workshop on Multidimensional Mechanism Design at University of Bonn, 2009; 9th Journées Louise-Andre Gerard-Varet, University of the Mediterranean, Greqam-Idep, Marseille, 2010; 10th Social Choice and Welfare Meeting, Moscow, 2010; Econometric Society World Congress, Shanghai, 2010.

- University/Institute Talks: Maastricht University, 2007; Tilburg University, 2007; Indian Statistical Institute, New Delhi, India, 2007; Tata Institute of Fundamental Research, 2008; Maastricht University, 2008; Indian Statistical Institute, New Delhi, 2009; Universitat Autònoma de Barcelona, 2009; Indian School of Business, 2010; Toulouse School of Economics, 2010.

## TEACHING

I have taught the following courses at Indian Statistical Institute.

- “Mathematical Programming with Applications to Economics” - Spring 2007, Spring 2008, Spring 2009, Spring 2010, Spring 2011.
- “Advanced Game Theory” - Fall 2007, Fall 2008, Fall 2009, Fall 2010.
- “Microeconomics” - Spring 2010.
- “A Reading Course on Multidimensional Mechanism Design” - Fall 2008.
- I also supervise (along with Arunava Sen) a “Theory Reading Group” - Spring 2009, Fall 2009, Spring 2010, Fall 2010, Spring 2011.

## PROFESSIONAL ACTIVITIES

- Reviewed articles for *American Economic Journal (Micro)*, *American Economic Review*, *Games and Economic Behavior*, *Inform Journal on Computing*, *International Journal of Game Theory*, *Journal of Economic Theory*, *Management Science*, *Mathematical Methods of Operations Research*, *Mathematics of Operations Research*, *Operations Research*, *Production and Operations Management*, *SIAM Journal on Computing*, *Social Choice and Welfare*; *Sixth and Eighth ACM Conference on Electronic Commerce (EC’05, EC’07)*.
- In organizing committee of the biannual meeting of the Society of Social Choice and Welfare to be held in New Delhi, India in August 2012.
- In program committee of 12th ACM Conference on Electronic Commerce (EC’11), 2011.
- In program committee of 8th ACM Conference on Electronic Commerce (EC’07), 2007.
- Head of Placement Cell, Indian Statistical Institute, New Delhi (2007-). Chair, Admission Committee for Doctoral Program in Economics (2009), Indian Statistical Institute.

## PERSONAL INFORMATION

Birthdate: June 30, 1977; Citizenship: India; Married on January 31, 2005; Child: 1 son - born on April 13, 2007.