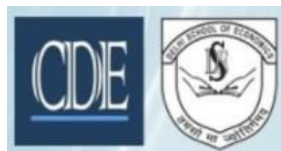


September 2020

CENTRE FOR DEVELOPMENT ECONOMICS

THE TWENTY-SEVENTH ANNUAL REPORT

(April 2019 - March 2020)



Centre for Development Economics
Delhi School of Economics, University of Delhi, Delhi 110007
Phone: +91 11 27008100. Fax: +91 11 27667159
E-mail and website: office@econdse.org, <http://cdedse.org>

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1. INTRODUCTION

The Centre for Development Economics (CDE) was established as a non-profit society in 1992 with an endowment grant from the Ministry of Finance, Government of India. It is located at the Delhi School of Economics. The Centre promotes collaboration with other institutions and individuals interested in economics and development policy. It acts as a research adjunct to the Department of Economics, augmenting the infrastructure and providing research support. It hosts visitors, organizes conferences and workshops, houses faculty research projects, offers fellowships to masters and doctoral students, and engages with the government on matters of economic policy.

The CDE also runs an active seminar series, holds occasional public lectures in collaboration with the Department of Economics, and publishes a working paper series to disseminate research by its members and their collaborators. A nationally recognized flagship event of CDE is its annual Winter School. It comprises invited lectures by internationally renowned economists including Nobel Laureates and contributed papers by early career researchers who get an opportunity to be mentored by experts.

The Centre has a well-equipped computer lab with latest software and hardware for meeting the research and training needs of MA, MPhil and PhD programs of the Department of Economics. It also has an archive of major data sets and a library for use by local researchers. The Centre is managed by a Council of eight members, elected for a two-year term from among the members of CDE, who are all faculty and ex-faculty of the Department of Economics.

The activities of CDE are funded by interest income from two endowment grants from the Ministry of Finance, from project income, and from contributions by individuals and institutions interested in promoting the goals of the Centre. In addition to the endowment grant in 1992, the Centre received a corpus fund from the Ministry of Finance in 2012 for hosting visitors and awarding fellowships for doctoral and post-doctoral students. It has also received project support from various ministries of the Government of India, the European Union, the Bill and Melinda Gates Foundation, and the Research Council of Norway, among others.

During the period April 2019 to March 2020, members of the department continued to contribute to the field of economics and development studies in significant ways. Several faculty members published their research in leading national and international academic journals. They also participated in policy debates through writings in popular journals and newspapers, and produced two well-received economic forecasts. The Department remains a UGC Centre of Advanced Study. For the seventh consecutive year, it was ranked the highest amongst university economics departments in India by RePEc, a global electronic archive of working papers and publications in economics (<https://ideas.repec.org/top/top.india.html>). Faculty members also participated in several national and international conferences. During the year, the department organized one major international conference, two workshops and a weekly seminar series that brought in distinguished speakers.

The composition of the current Council for the period 2020-2021 is:

Aditya Bhattacharjea
Executive Director

Ram Singh
Managing Director

Paramjit
Secretary

Surender Kumar
Treasurer

Pami Dua
Member

B.L. Pandit
Member

Uday Bhanu Sinha
Member

Sudhir A. Shah
Member ex-officio (Head, Economics Department)

The following staff members support the activities of CDE:

Deepika Garg
Manager

Rajesh Papnai
Senior Office Assistant

Vacant
Systems Administrator

Sonveer Vats
Junior Systems Administrator

Mritunjay Singh Bisht
Office Assistant

Ashok Kumar
Junior Office Assistant

CDE accounts are maintained by chartered accounts **Jayaraman & Co.** and are audited by the firm **Khanna & Annadhanam.**

2. CONFERENCES AND WORKSHOPS

Major events this year were the Winter School, KLEMS Research Workshop “Employment Trends in India” jointly with the Department of Economics, and a workshop on “Effects of Air Pollution”. These events brought together researchers and policy makers from reputed national and international universities and institutions.

WINTER SCHOOL 2019

The Annual Winter School was held from December 10-13, 2019 at the Department of Economics in collaboration with The Econometric Society with financial support from EXIM Bank and others. Each year the Winter School combines invited lectures by distinguished economists with parallel sessions where early career researchers present their work. Invited speakers at Winter School 2019 are listed below. In addition there were twenty one parallel sessions covering all areas of economics where over 100 junior faculty and doctoral students presented their research. The following lectures were given by the invited speakers:

- **Jean-Marc Robin, Sciences Po, Paris and University College, London**
 - Lecture 1 – Wage Posting
 - Lecture 2 – Sequential Auctions
 - Lecture 3 – Labour Market Dynamics and Heterogeneous Agents: Unemployment and labor Market Policies

- **V.V Chari , University of Minnesota**
 - Lecture 1 - Optimal Fiscal Policy
 - Lecture 2 - Optimal Monetary Policy
 - Lecture 3 – Dynamic Contracting in Macroeconomics

- **Ran Spiegler, Tel Aviv University and University College, London**
 - Lecture 1 – Behavioral Implications of Causal Misperceptions
 - Lecture 2 – Behavioral Implications of Causal Misperceptions-II
 - Lecture 3 - Behavioral Implications of Causal Misperceptions-III

- **Edward Glaeser, Harvard University**
 - Lecture 1 – The Economics of Agglomeration
 - Lecture 2 – Making Cities Liveable: Reducing Urban Externalities
 - Lecture 3 – Infrastructure, Incentives and Institutions

KLEMS RESEARCH WORKSHOP “EMPLOYMENT TRENDS IN INDIA”

The annual workshop of the India KLEMS research project was held on February 28, 2020 at the Centre for Development Economics, Delhi School of Economics. The main objective of the workshop was the presentation of the India KLEMS dataset 2019 prepared by the research team along with research papers from the project. A panel discussion was also organized as part of the workshop on “Employment trends in India” with Prof. S.N. Mehrotra (JNU), Dr. Ajit Ghosh (IHD) and Dr. G.C. Manna (NCAER) as the speakers. Prof. Aditya Bhattacharjea of Delhi School of Economics moderated the discussion. The workshop also saw research papers on the applications of KLEMS dataset presented by the RBI officers as well as researchers of KLEMS team.

IMPACT OF AIR POLLUTION ON HEALTH, HUMAN CAPITAL AND SUSTAINABLE DEVELOPMENT IN INDIA

CDE partnered with UN Environment and Boston College to organise a two day workshop on air pollution, health and human capital on July 17-18, 2020. The objective of the workshop was to share information on the status of an ongoing collaborative study on this topic, agree on the methodology and approach, validate the data and scope of work, and share emerging policy recommendations. Participants included researchers and practitioners from Boston College, Brookings India, Delhi School of Economics, Harvard Medical School, Health Effects Institute, IIT Bombay, IIT Delhi, IIT Kanpur, Public Health Foundation of India, University of Maryland at College Park, University of Minnesota, UN Environment, UrbanEmissions.info and government agencies such as CSO.

3. PUBLIC LECTURES AND SEMINARS

CDE and the Department of Economics organized a Public Lecture by Pami Dua, Member, Monetary Policy Committee and Professor, Delhi School of Economics. (27th February 2020 at 3:00 PM), on ‘Monetary Policy Framework in India’.

4. VISITORS, FELLOWSHIPS AND SCHOLARSHIPS

The CDE hosted Prof. Jean Dreze (Ranchi University) and Prof. Rukmani Gounder (School of Economics & Finance, Massey Business School, Massey University).

POST-DOCTORAL FELLOWSHIP

The CDE instituted a post-doctoral fellowship in 2015. Recent PhD graduates as well as those who have submitted their PhD thesis but are yet to be awarded their degree are eligible. The fellowship helps the candidate engage in research before holding a formal academic position. During 2019-20 the fellowship was awarded to **Dr. Dyotona Dasgupta (ISI, New Delhi)**.

DOCTORAL FELLOWSHIPS

The CDE offers monthly stipends to meritorious doctoral candidates who are not in receipt of any other financial support. The fellowship is offered to one student from each cohort for a period of up to five years.

KRISHNA RAJ TRAVEL FELLOWSHIPS

In 2006, the Sameeksha Trust established the Krishna Raj Summer Travel Fellowships, in memory of the longest serving editor of Economic and Political Weekly (EPW). It has been

housed at CDE since its initiation. Under this programme masters students from Economics, Sociology and Geography conduct fieldwork-based short research projects, either individually or in groups. Inter-disciplinary research collaborations are particularly encouraged. This research is conducted in the summer vacation and is followed by a written report and presentation. Some of the best papers from this fellowship have been published in the EPW over the years. The following six fellowships were awarded during the summer of 2019.

| S. NO | AUTHORS AND DEPARTMENT | TITLE |
|--------------|--|--|
| 1 | Naveen Kumar and Atul Kumar (Department of Economics) | Comparative study of effects of SHGs on socio-economic factors of women: A case study of Jeevika Programme |
| 2 | Soham Das and Trishita Shandilya (Sociology) | Spaces of Autonomy/ Spaces of Power- Individual aspirations and collective life at the Backdrop of a Precarious Ecology: A case study of a Mishing settlement near Kaziranga National Park on the Brahmaputra floodplains in Assam |
| 3 | Nishaant Kapoor and Vipul Bokolia (Sociology) | Ravidassia Dharm and Ad-Dharmis of Punjab: A Study on Different Consolidated Caste Identities of Ad-Dharm |
| 4 | Amshuman Dasarathy (Sociology) | Cinema as Travelling Medium: Picture Time and The Reconfigurations of Movie Publics and Media Technologies |
| 5 | Kundan Sen and Rebecca Rose Varghese (Sociology) | Migration and the Metropolis: The Everyday Lives of Afghan Refugees in Lajpat Nagar |
| 6 | Mounica Sreesai and Tanuj Luthra (Sociology) | The Road to Freedom: Worker Autonomy in the Platform Economy |

M.A. SCHOLARSHIPS

CDE houses the Suresh Tendulkar Fund from which two masters scholarships are awarded annually in memory of the late Prof. Tendulkar. In 2019, the Arjun and Jayshree Sengupta Scholarship was endowed by Mrs. Jayshree Sengupta, in memory of her husband Prof. Arjun Sengupta. It is to be awarded every year to a woman student in the first year of the M.A. class. After Mrs Sengupta passed away in 2020, the scholarship was renamed in both their names at the request of their daughter, Prof. Madhura Sengupta. These scholarships are awarded in consultation with the Department of Economics.

5. ONGOING RESEARCH PROJECTS

PUBLIC POLICY RESEARCH SUPPORT GRANT

| | |
|---------------------------------|---|
| Principal Investigators: | Mausumi Das, Parikshit Ghosh, Sudhir Shah and Rohini Somanathan (all at CDE) |
| Funding agency: | Bill and Melinda Gates Foundation |
| Project tenure: | November 2017 - October 2020 |

The two objectives of the BMGF grant have been to (a) build capacity and (b) generate new findings in the field of public economics, especially related to health, inequality and gender. As part of capacity building, in 2019 BMGF funded a one-day workshop to introduce researchers to (i) R programming and (ii) use of Geo-Spatial analysis. There were over 80 participants from various educational and research institutions, including several from outside Delhi. Deepayan Sarkar from ISI Delhi conducted a 2-hour session introducing R to the participants. R Prabhakar from Strand Life Sciences did a presentation on how to use spatial data for understanding data patterns. The structure and organization of spatial data were discussed along with the different types of spatial data analysis and its visual presentation. Various data sources for geo-spatial data were presented including crowd -sourced data.

The grant was also used to fund a joint workshop with the University of Warwick researchers at the Delhi School of Economics. On March 26 and 27, 2019 CDE hosted the last in a three-year series of joint workshops with Centrr for Competitive Advantage in the Global Economy (CAGE) at the University of Warwick. The workshop on public policy and development provided a valuable opportunity for researchers from Delhi School of Economics and University of Warwick– faculty and students- to present ongoing theoretical and empirical research on a variety of policy relevant issues. The workshop was well-attended by students and other researchers. Ten papers were presented in five sessions on different topics. The presentations were followed by interesting and valuable comments and suggestions by other researchers during the questions and answer sessions. The informal setting of a workshop structure facilitated continued interaction and discussions among participants over the two days. The workshop also included an engaging panel discussion on affirmative action in the context of economic and social realities in India. BMGF funding facilitated other collaboration as well. Mausumi Das (faculty at DSE) was subsequently invited to visit Warwick to explore further possibilities of collaboration. Sankhya Chakravarty from the University of Oregon visited DSE twice to work jointly with Mausumi, resulting in a published paper which explores trade-offs between investments in physical and human capital.

Finally, research on a variety of issues was funded by the BMGF grant. These include examination of male-female child ratios and related information using Census data to assess gender bias and gendered outcomes; assessing the causal effects of the Apni Beti Apna Dhan - meaning 'Our Daughter, Our Wealth' scheme in Haryana on adolescent outcomes; understanding how biological constraints affect educational and health outcomes for women,

and research on the effect of the RTE Act on outcomes for children in Kendriya Vidyalayas (KVs) in Delhi.

Another theme of the funded research has been the exploration of the linkages between culture and market and how that affects economic development. In particular, this research has looked at the link between culture and the economy working through the occupational choice decisions of agents; the relationship between corruption and economic growth - mediated through culture; and work that explores the link between a patriarchy and education.

CHALLENGING INEQUALITIES: AN INDO-EUROPEAN PERSPECTIVE

Principal Investigators: Ashwini Deshpande and Rohini Somanathan (CDE); Arunava Sen and Abhiroop Mukhopadhyay (Indian Statistical Institute Delhi); Shabana Mitra (Indian Institute of Management Bangalore).

Funding agency: European Union and ICSSR

Project tenure: January 2019 - December 2021

This project is based across four countries: India, UK, Norway and France, under the aegis of the EU-India Platform for the Social Sciences and the Humanities (EQUIP). The funding for the Indian component comes from the Indian Council for Social Science Research. Multiple researchers are working collaboratively on a range of sub-themes under the overall theme of inequality, such as measurement of inequality, attitudes towards inequality and fairness, and policies to mitigate inequalities.

Ashwini Deshpande (in collaboration with Veronique Gille and Rajesh Ramachandran) is working on an experiment to gauge attitudes towards affirmative action in order to understand whether beneficiaries are stigmatised on account of their group identity or because of preferential treatment. The project also seeks to understand if beneficiaries of class or means-based AA are as stigmatised by their peers as those receiving group based preferential treatment.

Abhiroop Mukhopadhyay is working on spatial inequalities. This project sought to calculate and understand drivers of local inequalities. Predictions of these spatial inequalities have been completed using machine learning and step-wise regression prediction methods. The latter was found to do better given the data in India. The village level inequalities, predicted by our model, are being currently validated using SECC village data that reports measures of income for one year of the period of our study. Once completed, the project will enter its final phase of understanding the drivers of these inequalities.

Arunava Sen (with Nicolas Gravel and Sarvesh Bandhu) is working on Theoretical Measures of Segregation. Segregation is obviously an important aspect of social relations in a society. It has however, received less theoretical attention than for instance, various forms of inequality. The project is working on developing an segregation index, which would indicate the "lack of

interaction" between communities. The authors are working on analysing the relationships between concrete measures of segregation.

DISAGGREGATED INDUSTRY LEVEL PRODUCTIVITY ANALYSIS FOR INDIA: THE KLEMS APPROACH

Principal Investigators: **K. L. Krishna (CDE), Deb Kusum Das (Ramjas College, University of Delhi), B N Goldar (IEG), Suresh Aggarwal (University of Delhi) and Abdul Azeez Erumban (The Conference Board, Brussels and Pilu Chandra Das (Kidderpore College, Kolkata)**

Funding agency: **Reserve Bank of India**

Project tenure: **January 2015 - December 2020**

The objective of the project is measurement and analysis of factor productivity in 27 industries comprising the Indian economy since 1980-81. The project uses the KLEMS methodology developed by Dale Jorgenson (Harvard University) and his associates, as part of the World KLEMS Initiative, which has been implemented in many countries across the world. Datasets on measures of output and factor inputs for the years 1980-81 onwards are being constructed for 27 industries, broad sectors and the total economy, using official data sources, such as NAS (National Accounts Statistics), ASI (Annual Survey of Industries), NSS Employment-Unemployment Surveys and Input-Output Tables (CSO).

Apart from organizing a workshop at CDE (as reported in section 2 above), members of the team participated in the fifth ASIA KLEMS Conference in Beijing, China on Oct 14 and 15, 2019, and presented papers based on their ongoing research. Prof K.L. Krishna was one of the Keynote speakers and made a presentation was on “Dimensions of Growth and Productivity in India since Liberalization”. The members of the KLEMS research team presented the following papers

1. “Comparing sectoral productivity levels in India and China” by Abdul Erumban
2. “Trade-productivity linkage: evidence from Indian manufacturing and services” by Deb Kusum Das
3. “Economic growth and jobs: India's experience of the last two decades in an international perspective ” by Suresh Aggarwal and B.N. Goldar

Professor B.N. Goldar was invited to present a paper on India KLEMS project at the Annual Conference of the Indian Econometric Society (TIES) on Jan. 8, 2020 in Madurai. On Prof Goldar's behalf, Prof Krishna presented Prof Goldar's paper on “Productivity Growth in the Indian Economy: Measurement, Estimates and the India KLEMS Dataset”.

Dr Deb Kusum Das presented a paper on “Growth and Productivity in Post-Socialist Regimes: An India-Russia Comparison” at the IARIW-HSE Conference Moscow, Russia, September 17-18, 2019.

ICT, RESPONSIBLE INNOVATION AND WELL BEING

Principal Investigators: Dibyendu Maiti (CDE) and Uday Bhanu Sinha (CDE)
Funding agency: Norwegian Institute of International Affairs and TIK, University of Oslo
Project tenure: May 2017 - Sept 2020

Proliferation and continuous innovation in the domain of information and communications technology (ICT) has had a profound and lasting impact on our human society and economy. With regard to the latter, ICT has had a deep impact on economic outcomes such as income, employment, productivity, trade flows and sectoral dynamics. This project focuses on these aspects with special reference to India and other developing countries. Some of the questions it aims to answer are, what the transmission mechanisms for impacts of ICT are, are all these impacts positive, how markets for ICT work, etc.

6. COMPLETED RESEARCH PROJECTS

CHOICE, CONSTRAINT AND GENDER DYNAMICS OF LABOUR MARKETS IN WEST BENGAL

Principal Investigators: Ashwini Deshpande (CDE) and Naila Kabeer (LSE)
Funding agency: Economic and Social Research Council (ESRC), UK
Project tenure: August 2016 - July 2019

The project ended in July 2019, and a final report was submitted to the funders. This project focused on West Bengal as a case study for exploring factors that differentiate labour force participation by men and women with a view to better understand the recent decline in female participation rates. The research sought to address questions such as what combinations of social norms and economic motivation help explain how men and women engage with the labour market and how this varies for different socio-economic groups. The project outlines specific policy implications from the analysis. Findings from quantitative data from a household survey in seven districts have been presented in several seminars. One full length paper is under submission, work on other papers, which combine in-depth qualitative interviews with quantitative data, is underway.

INDIAN FORECASTING MODEL - UNITED NATIONS LINK PROJECT

Principal Investigators: Pami Dua (CDE) and N. R. Bhanumurthy (NIPFP)
Funding Agency: Reserve Bank of India
Adviser: V. Pandit (Sri Sathya Sai University, Andhra Pradesh)

The Department of Economics is the India counterpart of the World Project LINK (initiated and guided by Nobel Laureate late Lawrence Klein) which integrates independently developed national macro models into a global model for macroeconomic forecasting and policy analysis. It is coordinated jointly by the UN Department of Economic and Social Affairs (UNDESA) and the University of Toronto. In the initial phase V. Pandit and late K. Krishnamurty from Institute of Economic Growth were actively associated with the project. In 2019-20, model simulations were undertaken and submitted to UNDESA for their flagship publication - World Economic Situation and Prospects. The Indian Economic Outlook for 2019-20 was also prepared and presented by the PIs at various international and national fora.

Pami Dua presented the following paper at the United Nations DESA Expert Group Meeting on the World Economy (LINK Project) held in New York in June 2019: “Determinants of Labour Productivity: Comparison of Developing and Developed Countries of Asia-Pacific”

7. HONOURS/DISTINCTIONS

BANERJI, ABHIJIT

- Associate Editor, *Indian Economic Review*

BHATTACHARJEA, ADITYA

- Member, Board of Studies, Economics Division, Indian Institute of Foreign Trade (Deemed University), 2017 – present.
- Member, Board of Studies, Faculty of Economics, South Asian University, 2020 - present.
- Member, Competition Law Review Committee, Ministry of Corporate Affairs, Government of India, 2018 – 2019.

DUA, PAMI

- Member, Monetary Policy Committee, Reserve Bank of India, 2016 to 2020

Editorial Board

- *Indian Economic Review*
- *Journal of Quantitative Economics*
- *Journal of Developing Areas*
- *Reserve Bank of India Occasional Papers*

Other

- Member, Governing Council, Madras Institute of Development Studies
- Member, Governing Body (Board of Management), Dayalbagh Educational Institute

GUPTA, SHREEKANT

- President, Indian Society for Ecological Economics, 2020-2022 (unanimously elected)
- Associate Editor, *Indian Economic Review*
- Editorial Board, *Agricultural and Resource Economics Review*
- Lead Author, Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report

SURENDER KUMAR

- Member, Board of Governors, Institute of Economic Growth, Delhi
- Associate Editor, *Ecology, Economy and Society (EES): An INSEE (Indian Society for Ecological Economics) Journal*
- Member Editorial Board, *Economics of Disasters and Climate Change* (a Springer Journal)

MAITI, DIBYENDU

- Member, Core Group on Policy and EoDB for Ministry of Small and Medium Enterprises under the CII National MSME Council (2019 -20)
- Member, Manav Rachana International Institute of Research and Studies.
- Associate Editor, *Progress in Development Studies*, Sage.

NAYAK, PULIN B

- Member, Academic Council, National Institute of Science, Education and Research, Bhubaneswar, Odisha.
- Member, AC, Central University of Tamil Nadu.
- Member, AC, Central University of Jammu.
- Member, Board of Governors, Institute for Studies in Industrial Development, New Delhi.
- Member, BoG, Gulati Institute of Finance and Taxation, Thiruvananthapuram, Kerala.
- Conference President, Gujarat Economic Association, Golden Jubilee Function, 3-5 January 2020, Anand, Gujarat.
- Editorial Board, *Urban India*.
- Editorial Advisory Board, *History and Sociology of South Asia*.
- Editorial Advisory Board, *RBI Occasional Papers*.

SINHA, UDAY BHANU

- Editor-in-Chief, *Indian Economic Review*
- Member, Academic Council, Institute of Economic Growth

SINGH, RAM

- Member, Appeal Committee, the National Assessment and Accreditation Council (NAAC), Government of India.
- Sub-domain Chair for the Scheme for Promotion of Academic and Research Collaboration (SPARC), Government of India.

8. FACULTY PUBLICATIONS

ARTICLES AND BOOK CHAPTERS

ABHIJIT BANERJI

- “Reverse Endowment Effect for a New Product” (with J. Rampal), *American Journal of Agricultural Economics*, forthcoming, 2020.

ADITYA BHATTACHARJEA

- “Labour Market Flexibility in Indian Industry: A critical survey of the literature”, *International Labour Review*, forthcoming.
- “Inverted Duty Structures and the Paradox of Negative Effective Protection in India, 2000-2014 (with Kanika Pathania), *Foreign Trade Review*, 55(2): 139-167, 2020.
- “Competition Law and Competition Policy in India: How the Competition Commission has dealt with anticompetitive restraints by government entities” (with Oindrila De and Geeta Gouri), *Review of Industrial Organization*, 54(2): 221-250, 2019.
- “The Enforcement of Indian Competition Law: Administrative or Regulatory?”, in Devesh Kapur and Madhav Khosla (eds.), *Regulation in India: Design, Capacity, Performance*. Oxford: Hart Publishing, 2019.

PAMI DUA

- “Monetary Policy Framework in India”, *Indian Economic Review*, forthcoming.
- “Determinants of Inflation in India” (with D. Goel), *Journal of Developing Areas*, forthcoming.
- “Determinants of Labour Productivity: Comparison between developing and developed countries of Asia-Pacific” (with N. Khandelwal Garg), *Pacific Economic Review*, 24: 686-704, 2019.
- “Sectoral Analysis of Productivity in the Developing and Developed Economies of Asia-Pacific” (with N. Khandelwal Garg), *Indian Growth and Development Review*, 13: 37-71, 2019.
- “Inter-linkages between USD-INR, EUR-INR, GBP-INR and JPY-INR Exchange Rate Markets and the Impact of RBI Intervention” (with R. Suri), *Journal of Emerging Market Finance*, 18: S102-S136, 2019.

PARIKSHIT GHOSH

- “Expert Captured Democracies” (with A. Chakraborty, and J. Roy), *American Economic Review*, forthcoming.
- “A Sovereign Wealth Fund for India” (with D. Ray), Festschrift in Honor of Pranab Bardhan (forthcoming).
- “Predictions, Role of Interventions and Effects of A Historic National Lockdown in India’s Response to the Covid-19 Pandemic: Data science call to arms” (with D. Roy, M. Salvatore, R. Bhattacharya, L. Wang, J. Du, S. Mohammed, S. Purkayastha, A. Halder, A. Rix, D. Barker, M. Kleinsasser, Y. Zhou, Y., D. Bose, P. Song, M. Banerjee, Baladandayuthapani, and B. Mukherjee, *Harvard Data Science Review*, June 9, 2020. <https://doi.org/10.1162/99608f92.60e08ed5>.

SHREEKANT GUPTA

- "Has Economics Caught Up with Climate Science?" *Ecology, Economy and Society–The INSEE Journal*, 3(1): 11–30 doi: 10.37773/ees.v3i1.86
- "Evaluating Policy Success of Emissions Trading Schemes in Emerging Economies: Comparing the experiences of Korea and Kazakhstan" (with P. Howie, S. Park and D. Akhmetov, *Climate Policy* 20(5): 577-592, 2020 doi: 10.1080/14693062.2020.1751030
- "Towards Effective Climate Services: Indian context" (with R.K. Mehajan and A. Tewary). *Current Science*, 117(8): 1274-1280, 2020 doi: 10.18520/cs/v117/i8/1274-1280

SURENDER KUMAR

- "Cost of CO₂ Mitigation and its Decomposition: Evidence from coal fired thermal power sector in India" (with R. K. Jain), *Empirical Economics*, forthcoming.
- "CO₂ Mitigation Policy for Indian Thermal Power Sector: Potential gains from trade" (with S. Managi, and R.K. Jain, *Energy Economics*, 86: 1-11, 2020.
- "Editors' Introduction to Productivity Growth in India: Issues and measurement" (with D. Maiti), *Indian Growth and Development Review*, 13: 1-9, 2020.
- "Industrial Energy Prices and Export Competitiveness: Evidence from India" (with P. Prabhakar), *Environmental Economics and Policy Studies*, 22: 1-20, 2020.
- "Temperature and Production Efficiency Growth: Empirical evidence" (with M. Khanna), *Climatic Change*, 156: 209-229, 2019.

DIBYENDU MAITI

- "ICT Exposure and the level of Wellbeing and Progress: A cross country analysis" (with A. Avasthi), *Social Indicators Research*, 147(1): 311-343, 2020.
- "Informality, Enforcement and Growth", *Economic Modelling* (with C. Bhattacharyya), 84: 259-274, 2020.
- "Sources of Finance, Innovation and Exportability: A Cross Country Study of Asia" (with P. Singh), *Journal of Asian Economic Integration*, 1(1): 1-24, 2019.
- Productivity Growth in India: Issues and Measurement, *India Growth and Development Review* (Guest edited with S. Kumar).
- "Does FDI Favour Net Exportability?" (with P. Singh), in De, P. and Raychoudhuri, A. (eds.), *25 Years of the WTO and India: A Retrospective*, Sage, New Delhi, 2020.
- "Trade, Labor Share, and Productivity in India's Industries", in Fields, Gary and Paul, Saumik (eds.), *Labor Income Share in Asia: Conceptual Issues and the Drivers*, Springer, 2019.
- "ICT and Governance: A Cross Country Analysis" (with A. Agarwal), in Maiti, D., Melchior, A. and Castellacci, F., *Digitalisation and Development: Issues for India and Beyond*, Springer, 2019.
- "ICT, Access to Finance and Exportability: A Cross Country Analysis" (with P. Singh), in Maiti, D., Melchior, A. and Castellacci, F., *Digitalisation and Development: Issues for India and Beyond*, Springer, 2019.

PULIN B. NAYAK

- “Inequality and Economic Development in India”, in *Social Development Report 2018*, edited by T. Haque and D. Narasimha Reddy, for Council for Social Development, Oxford University Press, New Delhi, 2019.
- “Capitalism: Present crises and reforms”, *SPET Research Journal of Social Science*, Sardar Patel Education Trust, Anand, Gujarat, 2020.
- “A Case for Community”, *Biblio*, July-December 2019.

RAM SINGH

- “The Many Interpretations of Law and Economics”, *Economic and Political Weekly*, 55(17), 25 April 2020.
- Review of "The Republic of Beliefs: A new approach to law and economics" by Kaushik Basu, *Indian Economic Review*, 54: 371–380, 2019.

ROHINI SOMANATHAN

- “The Impact of Temperature on Productivity and Labor Supply: Evidence from Indian manufacturing” (with Anant Sudarshan, E. Somanathan and Meenu Tiwari), *Journal of Political Economy* (accepted subject to minor edits), forthcoming.
- “Child Labor and Schooling Decisions among Self-Help Groups Members in Rural India” (with Jean-Marie Baland, Timothee Demont and Michel Tenikue), *Economic Development and Cultural Change*, doi:10.1086/703046, forthcoming.
- “Group Inequality in Democracies: Lessons from Cross-National Experiences” in Jean-Marie Baland, François Bourguignon, Jean-Philippe Platteau, and Thierry Verdier (ed.) *The Handbook of Economic Development and Institutions*, Princeton University Press, forthcoming 2020.
- “Designing effective transfers: Lessons from India’s school meal program” (with Farzana Afridi and Bidisha Barooah), *Review of Development Economics*, 24(1): 45-61, 2020.
- “Estimating the Welfare Gains from Public Schools in Rural India” (with Debopam Bhattacharya and Anders Kjelsrud), *Sankhya B: The Indian Journal of Statistics*, 114.
- “Socially Disadvantaged Groups and Microfinance in India” (with Jean-Marie Baland and Lore Vandewalle), *Economic Development and Cultural Change*, 67(3): 537-569.
- “A Behavior-based Approach to the Estimation of Poverty in India” (with Ingvild Almås and Anders Kjelsrud”, *Scandinavian Journal of Economics*, 121(1): 182-224.
- “Fields on Fire: Alternatives to Crop Residue Burning in India” (with multiple co-authors, first author: Priya Shyamsundar), *Science*, 365 (6453): 536-538. August 9.

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- “Intra-brand Patent Licensing with Inter-brand Competition” (with J. Cao), *Mathematical Social Sciences*, 104: 71-77, 2020.
- “The Implications of Labour Unions in the Presence of a Merger” (with J. Cao and A. Mukherjee), *The Manchester School*, forthcoming.

BOOKS

- **Dua, P.** *Macroeconometric Applications of the Indian Economy*, Oxford University Press.
- **Maiti, D.** *Digitalisation and Development: Issues for India and Beyond* (co-edited with F. Castellacci and A. Melchior, Springer, 2019).
- **Somanathan, R.** *Difference without Domination: Pursuing Justice in Diverse Democracies* (co-edited with Danielle Allen), University of Chicago Press, forthcoming 2020
- **Somanathan, R.** *Reading India: Selections from the Economic Weekly*, Volume 1, 1949-1965 (co-edited with Pranab Bardhan and Sudipto Mundle), Orient Blackswan, 2019.

9. CDE WORKING PAPERS

Downloadable from <http://cdedse.org/working-papers-2020/>

Continuing from reports of previous years

| PAPER NO | AUTHOR | TITLE |
|-----------------|---|---|
| 298 | Surender Kumar and Madhu Khanna | Temperature and Production Efficiency Growth: Empirical Evidence |
| 299 | Archishman Chakraborty, Parikshit Ghosh and Jaideep Roy | Expert Captured Democracies |
| 300 | Allan Feldman and Ram Singh | Equilibrium Under Negligence Liability: How the Standard Claims Fall Apart |
| 301 | Sunil Kanwar and Stefan Sperlich | Intellectual Property Protection and Foreign Direct Investment Into Less Developed Economies in the Post-Trips period |
| 302 | Surender Kumar, Shunsuke Managi and Rakesh Kumar Jain | CO ₂ Mitigation Policy for Indian Thermal Power Sector : Potential Gains From Emission Trading |
| 303 | Shreekant Gupta, Bishwanath Goldar and Shubham Dang | Environmental Performance and Capital Markets: Evidence From India |
| 304 | Sanyyam Khurana | Asymmetric Auctions with Risk Averse Preferences |
| 305 | Saumya Verma, Shreekant Gupta and Partha Sen | Does Climate Change Make Foodgrain Yields More Unpredictable? Evidence from India |
| 306 | Surender Kumar and Rakesh Kumar Jain | Cost of CO ₂ Emission Mitigation and its Decomposition: Evidence from Coal-fired Thermal Power Sector in India |

10. SEMINARS ORGANISED

| DATE | SPEAKER | TOPIC |
|-----------------------|---|--|
| 20th February 2020 | <i>Dyotona Das Gupta</i> , Delhi School of Economics | A Theory of Progressive Lending |
| 13th February 2020 | <i>Anindya S. Chakrabarti</i> Indian Institute of Management Ahmedabad | The “My Name is Khan” Effect: Unexpected Celebrity Destigmatization and Pharmaceutical Demand Spillovers |
| 6th February 2020 | <i>Ritesh Jain</i> Institute of Economics, Academia Sinica | Rationalizable Implementation of Social Choice Correspondences |
| 31st January 2020 | <i>Girish Bahal</i> University of Western Australia | When firms matter: Propagation of Firm-Level Shocks through Production Networks. |
| 24th January 2020 | <i>Sam Asher</i> Johns Hopkins School of Advanced International Studies | Intergenerational Mobility in India: Estimates from New Methods and Administrative Data |
| 16th January 2020 | <i>Sonalde Desai</i> National Council of Applied Economic Research and Uni- versity of Maryland. | Neither at Home, Nor in the Market: Low Returns to Women’s Education in India |
| 9th January 2020 | <i>Gaurav Datt</i> Monash University | Distribution-Sensitive Multidimensional Poverty Measures. |
| 2nd January 2020 | <i>Sumantra Pal</i> Ministry of Finance | Social Norms, Women’s Status and Gender Differences in Competitiveness: Evidence from Field Experiments in India’s Northeast |
| 5th December 2019 | <i>Varsha S. Kulkarni</i> , Harvard University | The Impact of Monetary Policy in a Dual Economy. |
| 14th November 2019 | <i>Farzana Afridi</i> , Indian Statistical Institute, Delhi. | The Ties that Bind Us: Social Networks and Productivity in the Factory. |
| 7th November 2019 | <i>Sandhya Garg</i> , National Council for Applied Economic Research. | What drives literacy in villages without schools? A study of Indian Village. |
| 31st October 2019 | <i>Kavita Sardana</i> , The Energy and Resources Institute | Welfare Impact of Adhoc Truncation and Homogeneous Preferences: An Application to Travel Cost Model. |

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| 24th October 2019 | <i>Srijita Ghosh,</i> Ashoka University. | Multidimensional and Selective Learning: A case study of Bt cotton farmers in India. |
| 14 October 2019 | <i>François Héran,</i> National Institute for Demographic Research and National Institute of Statistics, France in collaboration with Sociology Department, Delhi School of Economics | Impact of Demographic Dynamics on Migration. |
| 17th October 2019 | <i>Ujjayant Chakravorty,</i> Tufts University and Toulouse School of Economics. | Inefficient Water Pricing and Incentives for Conservation |
| 3rd October 2019 | <i>Seema Singh,</i> TERI University | Participation of Indian Firms in Global Value Chains: Effect on Employment and Wages. |
| 26th September 2019 | <i>Archishman Chakraborty,</i> Yeshiva University | Subversive Conversations |
| 25th September 2019 | <i>Satyendra K. Gupta,</i> Jindal School of Government and Public Policy | Irrigation and Gender Bias |
| 19th September 2019 | <i>Anubhab Gupta,</i> University of California, Davis. | General Equilibrium Impacts in Imperfect Agricultural Markets: Evidence from the Tanzanian Cotton Industry |
| 12th September 2019 | <i>Sargam Gupta,</i> Indian Statistical Institute, Delhi. | Uncertainty Shocks and Monetary Policy Rules in a Small Open Economy. |
| 5th September 2019 | <i>S.K. Ritadhi,</i> Reserve Bank of India | Regulatory Intervention To Aid Legal Reform |
| 29th August 2019 | <i>Dyotona Das Gupta,</i> Post-Doctoral Fellow, Centre for Development Economics, Delhi School of Economics. | Self-Confidence and Poverty Trap |
| 1st August 2019 | <i>Lisa Tarquinio,</i> Boston University | Drought Relief in India. |
| 25th July 2019 | <i>Sanjay R Singh,</i> University of California, Davis | The Long Run Effects of Monetary Policy |
| 30th April 2019 | <i>Shasi Nandeibam,</i> University of Bath | State Dependent Sharing and Efficiency in Teams |

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| 18th April 2019 | <i>Gopakumar Achuthankutty</i> , Post-Doctoral Fellow, Centre for Development Economics, Delhi School of Economics and Institute of Economic Growth | On strategic candidacy games |
| 4th April 2019 | <i>Digvijay S. Negi</i> , Post Doctoral Fellow (Gates Foundation), Centre for De- velopment Economics, Delhi School of Economics | The Welfare Impacts of High Food Prices: Resource Endowments and Spill-Over Effects. |
| 2nd April 2019 | <i>Alok Bhargava</i> , University of Maryland | Climate Change, demographic pressures and global sustainability |
| 23th October 2019 | <i>Chetan Ghate</i> , Member, Monetary Policy Committee and Professor, Indian Statistical Institute, Delhi | New Keynesian Dynamic Stochastic General Equilibrium Model (with heterogeneous agents). |
| 12th April 2019 | <i>Guest Lecture by Prakash Kashwan</i> , University of Connecticut | Methodological Individualism, “Public Choice” and Cross- National Environmental Action. |

11. SEMINAR/CONFERENCE PRESENTATIONS

ADITYA BHATTACHARJEA

- “Policy Transitions in the Industrial Sector in India and Causes of the Current Slowdown”, Banasthali Vidyapeeth, October 2019.

PAMI DUA

- “Monetary Policy Framework in India,” Aryabhata College, March 2020.
- “Monetary Policy Framework in India,” Public Lecture, Department of Economics, Delhi School of Economics, February 2020.
- “Monetary Policy Framework in India,” Keynote Address, 56th Annual Conference of The Indian Econometric Society, Madurai Kamaraj University, January 2020.
- “Synchronization of Cycles during Crises: An Analysis of BRICS and US,” Shri R. Venkataraman Endowment Lecture, Madras School of Economics, September 2019.
- “Monetary Policy and Inflation Targeting in India,” Workshop on Selected Macroeconomic Issues, International Monetary Fund South Asia Regional Training and Technical Center, New Delhi, September 2019.
- “Determinants of Labour Productivity: Comparison of Developing and Developed Countries of Asia-Pacific,” United Nations DESA Expert Group Meeting on the World Economy (LINK Project), New York, June 2019.

SHREEKANT GUPTA

- “Valuing the Lifetime Earnings Component of the Stock of Human Capital in India,” Workshop on *Impact of Air Pollution on Health, Human Capital and Sustainable Development in India*, organised by Centre for Development Economics, UN Environment and Boston College, New Delhi, July 17-18, 2019.
- “Martin Weitzman’s contributions to environmental economics,” Tenth INSEE Biennial Conference, Hyderabad, November 6-8, 2019.
- “Climate Change: Challenges and Policy Responses,” Administrative Staff College of India, Hyderabad, November 5, 2019.

DIBYENDU MAITI

- “Trade, Market Imperfections and Labour Share”, Vidyasagar University, West Bengal, 20 January 2020
- “Trade, Market Imperfections and Gains”, West Bengal State University, West Bengal 22 January 2020.
- “FDI, Exportability and The Indian Economy: Challenges and Strategies for Making India a USD 5 Trillion Economy”, Bundelkhand University, Jhansi, November 2019
- “Trade, Market Imperfections and Labour Share”, UNU-WIDER and UN-ESCAP joint workshop on Transforming economies for better jobs, 11-13 September 2019, Bangkok, Thailand.

- “Monetary Transformation and DSGE”, Discussion Group Meeting on Dynamics of Complex System, International Centre for Theoretical Sciences (TIFR), Bangalore, 8-12th July 2019.

RAM SINGH

- “Current Challenges for the Indian Economy”, Public Lecture at Kurukshetra University, Kurukshetra, March 4, 2020
- “Economics of Big Data”, 4th Paradigm International Conference, Indian Institute of Science Education and Research, Bhopal. February 2020
- “Does Quality Depend on Choice of Contracts?” International Conference of Development Economics, ISI Delhi, December 2019

UDAY BHANU SINHA

- “Trade, FDI and International Collusion” in the Conference on Economic Theory and Policy during March 12-13, 2020 at Jadavpur University, Kolkata.