

**XIV Annual Conference of Forum for Global Knowledge Sharing  
(Knowledge Forum) Supported by TATA TRUSTS**

***Conference Theme: Technology and Economy***

**Department of Humanities and Social Sciences, IIT Madras, Chennai  
Venue: IC&SR Building, IIT Madras, Chennai  
October 11-13, 2019**

**Programme**

<b>October 11, 2019, Friday</b>	
<b>8:30-9:00</b>	<b>Registration</b>
<b>IC&amp;SR, Hall – III</b>	
<b>9:00-10:00</b>	<b>Introductory Session</b>
	Chair: N. S. Siddharthan President, Knowledge Forum and Hon. Professor, Madras School of Economics
	Welcome: Umakant Dash Head, Department of Humanities and Social Sciences, IIT Madras
	Opening Remarks: Bhaskar Ramamurthy Director, IIT Madras , Chennai
	Tour of the Sessions: K. Narayanan Hon. Secretary, Knowledge Forum and Professor, IIT Bombay, Mumbai
	Remarks by Chair: N. S. Siddharthan, President, Knowledge Forum and Hon. Professor Madras School of Economics
	Vote of Thanks: Bino Paul Treasurer, Knowledge Forum and Professor, TISS, Mumbai
<b>10:00-10:30</b>	
<b>Tea/Coffee</b>	
<b>IC&amp;SR, Hall – III</b>	
<b>10:30-12:00</b>	<b>FDI - I</b>
	<b>Chair/Discussant: Stanley Nollen, GeorgeTown University, Washington DC</b>
	1. Filip De Beule, (KU Leuven University, Belgium), Joren Nevens <a href="mailto:filip.debeule@kuleuven.be">filip.debeule@kuleuven.be</a> , <i>“Impact of internationalization on innovation: A patent analysis”</i>
	2. Uday Bhanu Sinha, (Delhi School of Economics, Delhi), <a href="mailto:uday@econedse.org">uday@econedse.org</a> <i>“FDI and International Collusion”</i>

	3. Alex Eapen, Jihye Yeo (Australian National University, Australia), and Rejie George (IIM, Bangalore) <a href="mailto:alex.eapen@anu.edu.au">alex.eapen@anu.edu.au</a> , <i>“Business Group Affiliation and FDI Spillovers”</i>
<b>12:00-13:30</b>	<b>Environment</b> <b>Chair/Discussant:</b> <b>K. Lal, Society for Development Studies, Delhi and UNU-MERIT</b>
	1. Bino Paul, Unmesh Patnaik and Kamal Murari, (Tata Institute of Social Sciences, Mumbai), <a href="mailto:binopaul@gmail.com">binopaul@gmail.com</a> , <i>“How do micro/small enterprises organise waste in India: a scenario of common purpose or a tragedy?”</i>
	2. Geetha Mohan, Ranjeeta Mishra, Kensuke Fukushi, Rimba A. Besse, Ram Avtar, Lakshmi Narayana Perarapu, Saroj Kumar Chapagain, and I Made Sudarma (University of Tokyo and UNU Tokyo), <a href="mailto:Geetha.Mohan@unu.edu">Geetha.Mohan@unu.edu</a> <i>“Factors affecting and farmers’ perception of the adoption of water-saving irrigation technologies in semi-arid states in India”</i>
	3. Aravindhan N. and Jayaraman T., (Tata Institute of Social Sciences, Mumbai), <a href="mailto:aravindhan.nagarajan@gmail.com">aravindhan.nagarajan@gmail.com</a> , <i>“Plastic Recycling Clusters in India: Material Flows and Technological Capacities of Recycling Firm”</i>
<b>13:30 – 14:30</b>	<b>Lunch</b>
<b>IC&amp;SR Hall - II</b>	
<b>14:30 – 16:30</b>	<b>Innovation and energy studies</b> <b>Chair/Discussant: Malathy Duraisamy, IIT Madras, Chennai</b>
	1. Narayanan K. (IIT Bombay), Bino Paul and Unmesh Patnaik (Tata Institute of Social Sciences, Mumbai), <a href="mailto:binopaul@gmail.com">binopaul@gmail.com</a> , <i>“The triad of Labour, Innovation and Enterprises: emergent scenarios in South Asia”</i>
	2. Ketan Reddy, Radeef Chundakkadan, and Subash Sasidharan (IIT Madras), <a href="mailto:radeef2013@gmail.com">radeef2013@gmail.com</a> , <i>“Innovation and Global Value Chain Participation: A Firm-Level Investigation”</i>
	3. Madhabendra Sinha (NIT Durgapur), Anjan Ray Chaudhury (Durgapur Government College) and Partha Pratim Sengupta (NIT Durgapur), <a href="mailto:madhabendras@gmail.com">madhabendras@gmail.com</a> , <i>“FDI, Trade and CO2 Emission in the Era of Digitalisation: An Empirical Study on Asia and Pacific Developing Countries”</i>
	4. Avinash Prasad Kshitij and Kasturi Mandal (NISTAD), <a href="mailto:avinash.kshitij@nistads.res.in">avinash.kshitij@nistads.res.in</a> , <i>“Innovation Capabilities in Renewable Energy in India: The case of Marine Energy”</i>

<b>16:30-17:00</b>	<b>Tea/Coffee</b>
<b>IC&amp;SR Hall - II</b>	
<b>17:00-18:30</b>	<b>FDI – II</b> <b>Chair/Discussant: B L Pandit, formerly Delhi School of Economics, Delhi</b>
	1. Nadia Doytch (City University of New York- Brooklyn College), <a href="mailto:ndoytch@gmail.com">ndoytch@gmail.com</a> , <i>“Upgrading Destruction? How Do Climate-related and Geophysical Natural Disasters Impact Sectoral FDI”</i>
	2. Savita Bhat (NIT Surathkal), <a href="mailto:savitapbhat@gmail.com">savitapbhat@gmail.com</a> , <i>“Determinants of OFDI of Manufacturing Firms from India to the Developed Countries within OECD”</i>
	3. Khanindra Ch. Das (BIMTECH, Greater Noida), <a href="mailto:kchdas@gmail.com">kchdas@gmail.com</a> , <i>“International Subsidiary Closure in The Software Services Sector: The Experience of Indian Software Services Multinationals”</i>
<b>18:30 – 19:30</b>	<b>Governing Council Meeting</b>
<b>19:30 onwards</b>	<b>Dinner</b>
<b>October 12, 2019, Saturday</b>	
<b>IC&amp;SR Hall - II</b>	
<b>9:30-11:00</b>	<b>Econophysics</b> <b>Session Organised by Ashok Jain, Former Director NISTAD and M. K. Das, Delhi University</b> <b>Chair/Discussant: Y S Rajan, ISRO</b>
	1. Ashok Jain (Former Director NISTAD) <a href="mailto:ashokxnistads@gmail.com">ashokxnistads@gmail.com</a> and M. K. Das (Delhi University) <a href="mailto:dasmkd11@gmail.com">dasmkd11@gmail.com</a> , <i>“Modeling Complex Behavior of Financial system: Effect of Time-delayed Feedback”</i>
	2. Anindita Bhattacharjee (Amity College of Commerce and Finance), <a href="mailto:abhattacharjee@amity.edu">abhattacharjee@amity.edu</a> , <i>“Statistical Investigation of Financial time series: Indicators for long term correlation”</i>
	3. L. M. Saha (Shiv Nadar University), <a href="mailto:lmsaha.msf@gmail.com">lmsaha.msf@gmail.com</a> , <i>“Application of Asymptotic Stability Analysis to Price Dynamics”</i>
<b>11:00-11:30</b>	<b>Tea/Coffee</b>

<b>IC&amp;SR Hall - II</b>	
<b>11:30 – 13:30</b>	<b>Industry</b> <b>Chair/Discussant: Alakh N Sharma, Institute for Human Development, New Delhi</b>
	1. Asmita Goswami and K. Narayanan (IIT Bombay), <a href="mailto:knn.iitb@gmail.com">knn.iitb@gmail.com</a> , <i>“Firm Ownership, Technological Efforts and Productivity: A study of Information Technology Firms in India”</i>
	2. Prantik Bagchi and Santosh Kumar Sahu (IIT Madras), <a href="mailto:santosh@iitm.ac.in">santosh@iitm.ac.in</a> , <i>“Firm-level Externality and Production Effects in Indian Manufacturing Sector”</i>
	3. Mohammad Shahid Zaman and Anup Kumar Bhandari (IIT Madras), <a href="mailto:shahidzaman13@gmail.com">shahidzaman13@gmail.com</a> , <i>“Technological Progress and TFP Growth: An Empirical Analysis of the Indian Commercial Banks”</i>
	4. R. Rijesh (The Institute for Studies in Industrial Development), <a href="mailto:rijeshraju@gmail.com">rijeshraju@gmail.com</a> , <i>“Trade Reforms, Technology Import and Productivity in Indian Manufacturing Firms”</i>
<b>13:30-14:30</b>	<b>Lunch</b>
<b>IC&amp;SR Hall - II</b>	
<b>14:30-16:30</b>	<b>R&amp;D and Innovation</b> <b>Chair/Discussant: Ashok Jain, Former Director NISTAD</b>
	1. Anurag Anand, (Center for Development Studies), <a href="mailto:anand.anurag34@gmail.com">anand.anurag34@gmail.com</a> , <i>“Technology and Export Performance of Indian Pharmaceutical Industry: Comparative Study of Foreign MNCs and Domestic Companies”</i>
	2. Beena P L and Siddik Rabiyyath (Center for Development Studies), <a href="mailto:beena@cds.edu">beena@cds.edu</a> , <i>“IPR institutions, Innovation activities and Developmental Implications of IP Asset Intensive Industries”</i>
	3. Nidhi Singh, (Department of Health Research, Ministry of Health & Family Welfare), <a href="mailto:nidhisinghb8@gmail.com">nidhisinghb8@gmail.com</a> , <i>“Economic Liberalisation and the Development of Molecular Diagnostics Industry in India: An Innovation System Perspective”</i>
	4. P. Geetha Rani, Megha Shree and Rajesh Shukla, <a href="mailto:geethselva@gmail.com">geethselva@gmail.com</a> , <i>“Return to skills in India; the role of digital access and usage”</i>
<b>16:30 – 17:00</b>	<b>Tea/Coffee</b>
<b>17:00 – 18:30</b>	<b>General Body Meeting</b>
<b>19:00 onwards</b>	<b>Conference Dinner</b>

October 13, 2019, Sunday	
IC&SR Hall - II	
<b>9:00-10:00</b>	<b>Panel A: Legal and Ethical Issues with Artificial Intelligence</b>
	<p><b>Moderator: Professor V. Kamakoti, IIT Madras, <a href="mailto:veezhi@gmail.com">veezhi@gmail.com</a></b></p> <p><b>Panellists</b></p> <ul style="list-style-type: none"> <li>• B. Ravindran, IIT Madras; <a href="mailto:ravindran.b@gmail.com">ravindran.b@gmail.com</a></li> <li>• G. S. Madhusudan, CTO INCORE, <a href="mailto:mail@madhu.link">mail@madhu.link</a></li> <li>• Rajesh Ramanathan, Advocate, Partner Factum Law, <a href="mailto:rajesh@factumindia.law">rajesh@factumindia.law</a></li> </ul>
<b>10:00-10:30</b>	<b>Tea/Coffee</b>
<b>10:30-11:30</b>	<b>Panel B: Economic Problems Solvable using Artificial Intelligence</b>
	<p><b>Moderator: S. Mahalingam, Former CFO, TCS, <a href="mailto:mahalingam.seturaman@gmail.com">mahalingam.seturaman@gmail.com</a></b></p> <p><b>Panellists</b></p> <ul style="list-style-type: none"> <li>• K. Ananth Krishnan, TCS; <a href="mailto:ananth.krishnan@tcs.com">ananth.krishnan@tcs.com</a></li> <li>• Abhilash Mishra, NSE Academy; <a href="mailto:abhilashm@nse.co.in">abhilashm@nse.co.in</a></li> <li>• T. K. Ramkumar, Advocate, Patents, Trademarks &amp; IPR Attorneys; <a href="mailto:tkramkumar@gmail.com">tkramkumar@gmail.com</a></li> </ul>
<b>11:30-12:30</b>	<b>Concluding Session</b>
<b>12:30 onwards</b>	<b>Lunch</b>