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## KAUSHALESH LAL, Ph.D

### Contact Information

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### I. GENERAL INFORMATION

**Date of Birth** June 15, 1955

#### Education and Qualifications

- 2000** Ph. D, Adoption of Information Technology and its Consequences in a Development Context, **Erasmus University Rotterdam, Netherlands**
- 1983** M.Sc., (**First division**) Operations Research, **University of Delhi, India**
- 1977** M.Sc., (**First division**) Physics: Electronics, **Kanpur University, India**
- 1975** B. Sc., (**First division**) Physics, Chemistry, Maths, **Kanpur University, India**

#### Employment Record

- May 2009- till date **Professor and Director**  
Research & Training  
Society for Development Studies, Delhi
- 2003 - April 2009 **Senior Researcher**  
United Nations University – MERIT  
Maastricht, Netherlands
- 1989 – April 2003 **Associate Professor**  
Institute of Economic Growth, University of Delhi,  
Delhi - 110 007, India

1978 – 1989

**Assistant Professor**

Institute of Economic Growth, University of Delhi,  
Delhi - 110 007, India

## II. RESEARCH EXPERIENCE

### Research Interests

- New Technologies and Economic Development
- Small and Medium Enterprises in Developing Countries
- Sectoral Systems of Innovation and T&C Sector in Developing Countries
- Globalization and Socio-economic Development

### Professional Activities (selected)

- **Member, Advisory Board of Directors- India, Commonwealth Centre for e-Governance- India**
- **Referee of the following international journals**
  - World Development
  - Research Policy
  - Information Economics and Policy
  - International Journal of Technology Management
  - Technovation
  - Telecommunications Policy
- **Collaborative Studies done with**
  - Indian Institute of Information Technology, Bangalore, India
  - European Commission
  - International Data Corporation, Italy
  - Erasmus University Rotterdam, Netherlands
  - World Institute of Development Economic Research (WIDER), Helsinki, Finland
  - Centre for Development Research (ZEF), Bonn, Germany
- **Ph.D Supervision**
  1. Mr. Bassar Kazi, awarded in December, 2015  
Topic: FDI in ICTs and its Contribution to Economic Development in Pakistan
  2. Mr. Donatus Ayitey, awarded in September, 2010  
Topic: Technical Change, Competitiveness and Poverty Reduction in the Ghanaian Apparel Industry

## **Research Publications since 1996**

### ***Selected Peer Reviewed Journal Papers***

1. Adoption of Digital Technologies in Tertiary Education: Evidence from India, *Journal of Educational Technology System*, 2018, 47(1): 128-147.
2. New Educational Technologies in Tertiary Education in India: Adoption and Consequences, *Journal of Applied Research in Higher Education*, 2018, 10(1), 1-14.
3. Quality of Teachers and Skill Formation in Students, *Indian Journal of Teacher Education*, 2015, 1(1), 85-98.
4. Non-Technological Innovations and Performance, *Contribution to Indian Social Science*, 2010, 29(3&4):148-65.
5. Small Islands and the Adoption of ICTs: Comparative Study of SMEs in Jamaica and Mauritius, *International Journal of Environment Technology and Management*, 2009, 10(2):206-22.
6. "Information and Communication Technology Adoption in Malaysian SMEs", *Asian Journal of Technology Innovation*, 2008, 16(1):161-86.
7. "Globalization and the Adoption of ICTs in Nigerian SMEs", *Science Technology and Society*, 2007, 12(2): 217–244.
8. "Consequences of the Adoption of Information and Communication Technologies in SMEs in Jamaica", *ICFAI Journal of Knowledge Management*, 2007, 5(4):27-53.
9. "New Technologies and Indian SMEs", *ICFAI Journal of Applied Economics*, 2007, 6 (1): 20-41.
10. "Institutional Support for Collective Learning: Cluster Development in Kenya and Ghana", *African Development Review*, 2006, 18(2): 258-278. (With Banji Oyelaran-Oyeyinka)
11. "Learning new Technologies by SMEs in Developing Countries", *Technovation*, 2006, 26(2): 220-231. (With Banji Oyelaran-Oyeyinka)
12. "Determinants of the Adoption of E-business Technologies", *Telematics and Informatics*, 2005, 22(3): 181-199.
13. "The Internet Diffusion in Sub-Saharan Africa: A Cross-country Analysis", *Telecommunications Policy*, 2005, 29(7): 507-527. (With Banji Oyelaran-Oyeyinka)
14. "E-business and Export Behavior: Evidence from Indian Firms", *World Development*, 2004, 32(3): 505-17.
15. "Digital Divide and International Orientation: Evidence from Asia-Pacific Countries", *ICFAI Journal of Applied Economics*, 2004, 3(2): 31-41. (With Shampa Paul)

16. "E-business and Manufacturing Sector: A Study of Small and Medium-sized Enterprises in India", *Research Policy*, 2002, 31(7): 1199-1211.
17. "Institutional Environment and the Growth of Indian IT Industry", *The Information Society* (California University), 2001, 17:105-17.
18. "Determinants of adoption of Information Technology: A Case Study of Electrical and Electronic Goods Manufacturing firms in India", *Research Policy*, 1999, 28(7): 667-80.
19. "The Adoption of Information Technology and its Consequences: A Case Study of Indian TV Manufacturing Firms", *Science Technology and Development* (Frank Cass, London), 1998, 16 (1): 81-100.
20. "Information Technology, International Orientation and Performance: A Case Study of Electrical & Electronic Goods Manufacturing Firms in India", *Information Economics and Policy*, 1996, Vol.8 (3): 269-280.

### **Books**

1. Structural Transformation and Economic Development: A cross country analysis, London and New York: Routledge, 2017.
2. Servitization, IT-ization and Innovation Models: Two-stage Industrial Cluster Theory, Edited by Hitoshi Hirakawa, Kaushalesh Lal, Naoko Shinkai and Norio Tokumaru, 2013, London and New York: Routledge.
3. Innovation Policies and International Trade Rules: The Textiles and Clothing Industry in Developing Countries, Edited by Kaushalesh Lal and Pierre A. Mohnen, 2009, New York: Palgrave-Macmillan.
4. Information and Communication Technologies in the Context of Globalization: Evidence from the Developing World, 2007, New York: Palgrave-Macmillan.
5. SMEs and New Technologies: Learning E-business and Development, 2006, New York: Palgrave Macmillan (With Banji Oyelaran-Oyeyinka).
6. Adoption of Information Technology and its Consequences in a Development Context: A Case Study of the Indian Electrical & Electronic Goods and Garments Sectors in two Industrial Clusters, 2000, Amsterdam: Theathesis Publishers.

### **Chapters in Books**

1. "Innovation and Institutions: A study of ICT-MSMEs in India", 2014, In: Kesab Das (Ed.), *Globalization and Standards: Issues and Challenges in Indian Business*, Springer, 193-208.
2. "Export Orientation and Firms' Policy during Global Economic Slowdown", 2013, In: Hitoshi Hirakawa, Kaushalesh Lal, Naoko Shinkai and Norio Tokumaru (Eds.), *Servitization*,

*IT-ization and Innovation Models: Two-stage Industrial Cluster Theory*, London and New York: Routledge, 150-64. (With Shampa Paul)

3. "Impact of Information and Communication Technologies on Rural Higher Education in India", 2011, In: Prabhath, S.V. and Sita Devi, P. Ch. (Eds.), *Technology and Rural India*, New Delhi: Global Research Publications, 150-67. (With S. P. Shakya)
4. "Textiles and Clothing Industry and Economic Development: A Global Perspective", 2009, In: Lal, Kaushalesh and Mohnen, Pierre A. (Eds.), *Innovation Policies and International Trade Rules: The Textiles and Clothing Industry in Developing Countries*, New York: Palgrave-Macmillan, 10-36.
5. "High-tech Industries, Employment and Global Competitiveness", 2008, In: Hashim, H. R. and Siddharthan, N. S. (Eds.), *Small Islands, New Technologies and Globalization: A Case of ICT Adoption by SMEs in Mauritius*, New Delhi, New York: Routledge and Taylor & Francis Group, 141-62.
6. "Institutional Support for Collective ICT Learning: Cluster Development in Kenya and Ghana", 2007, In: Banji Oyelaran-Oyeyinka and McCormick, Dorothy (Eds.), *Industrial Clusters and Innovation Systems in Africa*, Tokyo: UNU Press, 269-293. (With Oyelaran-Oyeyinka, Banji and Adeya, Catherine Nyaki)
7. "ICTs and Export Performance: The Case of Garment Manufacturing Enterprises in India", 2006, In: Maximo Torero and Joachim von Braun (Eds.), *Information and Communication Technologies for Development and Poverty Reduction: The Potential of Telecommunications*, Baltimore: Johns Hopkins University Press, 207-233.
8. E-business, Entrepreneurship, Organizational Restructuring: Evidence from Indian Firms, 2005, In: Ashwani Saith and M. Vijayabhaskar (Eds.), *ICTs and Indian Economic Development: Economy, Work, Regulation*, New Delhi, London: Sage Publications, 366-85.
9. "Liberalization and Growth of Firms in India", 2004, In: C. H. H. Rao, B. B. Bhattacharya and N.S. Siddharthan (Eds.), *Indian Economy and Society: in the era of globalization and liberalization*, New Delhi: Academic Publications, 265-278. (With N.S. Siddharthan)
10. "The Determinants of the Adoption of Information Technology: A Case Study of Indian Garment Industry", 2001, In: Matti Pohjola (Ed.), *Information Technology, Productivity, and Economic Growth: International Evidence and Implications for Economic Development*, New York: Oxford University Press, 149-72.

### ***Other Publications***

1. Discriminants of the adoption of ICTs, I4D, 2007, V(5):14-16.
2. Adoption of ICTs in SMEs, I4D, 2006, IV (9):13-14.

3. Small Islands, New Technologies and Globalization: A Case of ICT adoption by SMEs in Mauritius, 2006, Working Paper of UNU-MERIT, WP2006-005.
4. Liberalization, MNE and Productivity of Indian Enterprises”, *Economic and Political Weekly*, January 31, 2004, 39(5): 448-452. (With N. S. Siddharthan)

### **Academic and Organisational Experience**

Head, ICT Department, IEG	1982- 2003
Member UNU-MERIT Review and Recruitment Committee	2007 - 2009

### **Projects Completed since 2003**

1. **Off-shoring and its Impact on Employment: Measurement Issues and Policy Implications for Europe** (with Pierre Mohnen)  
Main objective of the study was to assess the impact of off-shoring on employment in OCED countries. Secondary data sources such I/O tables of OCED countries and STAN databases have been used in the analysis. The project report has been submitted to OECD in December 2006.
2. **Study on Innovative ICT SMEs in Europe (EU 25)**  
(with Theo Dunnewijk and Gabriella Cattaneo)  
The project was completed in December 2007. The main objective of the study was to identify “Champion” and “Low Fertility” regions in EU25 with regard to ICT SMEs and to make policy recommendations to European Commission towards meeting the Lisbon agenda. The findings of the study are based on primary as well as secondary data sources.
3. **Growth of garments and textiles sectors and their impact on economic development of developing countries**  
The project was completed in March 2008. We analyzed the production and exports of garments and textiles in first-, second-, and third-tier developing countries. The study identified factors that have been impediments in using these sectors as a platform for growth and development by late comers. A book based on the findings of study will be published by Palgrave Macmillan in February 2009.
4. **Globalization and SMEs**  
The project was completed in December 2006. The study examined SMEs located in Costa Rica, Jamaica, Nigeria, Mauritius, India, and Malaysia. A book based on the project has been published in 2007 by Palgrave Macmillan.
5. **SMEs and the adoption of new technologies**  
A cross-country study. The project was completed in December 2005. We have published two research papers in refereed international journals and a book published by Palgrave Macmillan in 2006.

### III. TEACHING EXPERIENCE

1. Taught to Ph.D students during my stay at UNU-MERIT.
2. I actively participated in the teaching and research programs of the Institute of Economic Growth. I used to offer courses (each course consists of lectures ranging from 30 to 35 hours) on applications of information technology to the research students, Indian Economic Service Probationers, and the participants of other training programs organized by the Institute.
3. I was regularly delivering lectures to college/university teachers at Jamia Millia University, Delhi for the courses offered by the University. My lectures were on applications of information technology in social sciences.

### IV. OTHER PROFESSIONAL ACTIVITIES

#### **Participation in Conferences and Seminars since 2003**

1. XII Annual Conference: November 10-12, 2017, at Nabakrushna Choudhury Centre for Development Studies (NCDS) Bhubaneswar, Odisha, Conference Theme: "Changing Paradigms in Technology, Trade and Development". Presented a paper entitled, "Paradigm Shifts in Information and Communication Technologies: Towards Quantum Computers".
2. XI Annual Conference: December 3-5, 2016, at IIT Madras, Chennai, Conference Theme: "Globalisation of Technology and Development". Presented a paper entitled, "Global Technologies and their Adoption in Higher Education in India".
3. X Annual Conference: November 27-28, 2015, at National Institute of Advanced Studies (NIAS), Bangalore, Conference Theme: Technology, Growth and Sustainability. Presented a paper entitled, "New Educational Technologies in Higher Education in India: Degree of Adoption and Sustainability".
4. Workshop on "Harnessing Technology for Challenging Inequality" at Tata Institute of Social Sciences, Mumbai 7th March, 2015. Presented a paper entitled, "ICTs as enablers in Higher Education".
5. IX Annual Conference, October 27-29, 2014 at National Institute of Advanced Studies (NIAS), Bangalore. Conference Theme: "*Technology: Corporate and Social Dimension*". Presented a paper entitled, "Unit level analysis of environment consciousness and intensity of ICT adoption".
6. VIII Annual Conference, October 25 – 27, 2013, at IIT Bombay, Conference Theme: Emerging Technologies and Development. Presented a paper entitled, "Institutions and Innovation".
7. VII Annual Conference, November 30 - Dec. 2, 2012 at Symbiosis International University, Pune, Conference Theme: *Technology Intensity and Global Competitiveness*. Presented a paper entitled, "Export Orientation and Firms' Policy during Global Economic Slowdown".

8. International conference organized by Nagoya University, Japan and Nagoya Institute of Technology, Japan, during December 23-24, 2011, presented a paper entitled “Export Orientation and Firms' Policy during Global Economic Slowdown”.
9. International Conference on Science, Technology and Economy: Human Capital and Development, IIT Bombay, Mumbai, during November 11 -12, 2010, presented a paper entitled “Measurement of the Impact of Relocation on Employment”.
10. International conference organized by UNU-MERIT and UNU-WIDER at UNU-MERIT, during October 30-31, 2008, presented a paper entitled “Entrepreneurship and Technological Change in Malaysian SMEs”.
11. International conference organized by Knowledge Forum, at Institute for Studies in Industrial Development, New Delhi, During October 17-18, 2008, presented a paper entitled “Entrepreneurship and Innovation Strategies in ICT SMEs in Enlarged Europe (EU25)”.
12. Presented a paper in Asialics 2008 conference organized at IIM Bangalore, India during April 2-4, 2008.
13. Presented a paper in an international conference on SMEs in Transitional Economies: Challenges and Opportunities held at and organized by Gyan Jyoti Institute of Management and Technology, Phase-II, Mohali during March 27-28, 2008.
14. Was discussant of a paper in an international conference organized at IIT Bombay, Mumbai, India by Forum for Global Knowledge Sharing during November 2-3, 2007.
15. Presented a paper in eINDIA2007 conference during 31st July-03 August 2007. The international conference was jointly organized in Delhi by the Ministry of Information Technology, Government of India and Centre for Science, Development and Media Studies.
16. Presented a paper in a conference “India in Emerging Global Order”, organized Academy of International Business India Chapter at Xavier Institute of Management Bhubaneswar, India during January 29-31, 2007.
17. Presented a paper in an international conference on e-infrastructure. The conference was jointly organized by India and European Union in New Delhi during December 14-15, 2006.
18. Presented a paper in an international seminar on “Knowledge Based Industries, Employment and Global Competitiveness” organized by Knowledge Forum in New Delhi during October 6-7, 2006.
19. Discussant of three papers in Asialics international conference on “From Imitation to Innovation: Asia Meets Global Challenges” organized by School of Economics & Management, Tongji University, Shanghai, China during April 16-19, 2006.
20. Presented a paper in an international seminar on “Creating Entrepreneurship Development and Developing Entrepreneurial Management” organized by IIT Bombay in Mumbai, India during March, 16-18, 2006.



21. Participated and presented a paper in World Summit on the Information Society (WSIS). The summit was organized in Tunis during November 16-18, 2005.
22. Presented a paper on “Causes and Consequences of the Adoption of ICTs in Indian SMEs” in a seminar organized by the Department of Economics National University of Costa Rica on June 1, 2005.
23. Presented a paper in a seminar organized by MCA-ICT Resource Centre, Kuala Lumpur, Malaysia on April 7, 2005.
24. Coordinator, Design and Evaluation of Innovation Policy (DEIP) workshop held during January 24-29, 2005 at UNU-INTECH.
25. Participated in a formal discussion at the Faculty of Social Sciences and Statistics, University of Mauritius, Mauritius on the “Contribution of SMEs in Mauritian Economy” on January 16, 2005.
26. Presented a paper in a seminar organized by University of Technology, Kingston, Jamaica on October 12, 2004.
27. Participated in a formal discussion on SMEs and globalization. The group discussion was organized by Nigerian Institute of Social and Economic Research, Ibadan, Nigeria on October 25, 2004.
28. World Summit on the Information Society, December 10-12, 2003, PALEXPO, Geneva.
29. Globalization Regionalization and the Information Society, 9-10 October 2003, Bruges, Belgium (presented a paper)