



Management, Faculty of Arts & Social Sciences, National University of Singapore (2001–2004).

- Assistant Professor of Science, Technology and Society, Division of Social Sciences & Faculty Affiliate, School of Environment Science and Engineering, Hong Kong University of Science and Technology, Hong Kong ((1994–2001).
- Rockefeller Foundation

## PUBLICATIONS

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### AUTHORED & EDITED BOOKS

1. *Sustainable Nanotechnology: Strategies, Products, and Applications*. Y.K. Pathak, G. Parayil, and J.K. Patel. Hoboken, NJ: John Wiley & Sons, 2022, xvii + 366.
2. *Conceptualizing Technological Change: Theoretical and Empirical Explorations*. Lanham, MD and Oxford: Rowman & Littlefield Publishers, Hardcover 1999: Soft cover 2002, viii + 211 pp.
3. *Kerala: The Development Experience: Reflections on Sustainability and Replicability*,

*Kerala: The Paradoxes of Public Action and Development*, New Delhi: Orient Longman, 2006, pp. 215-257.

6. G. Parayil and A.P. D'Costa, "China, India, and the New Asian Innovation Dynamics: An Introduction" in *The New Asian Innovation Dynamics: China and India in Perspective*, G. Parayil and A.P. D'Costa, (eds.), Palgrave Macmillan, UK, 2009, pp. 1-26.

## ARTICLES IN REFEREED JOURNALS

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1.

21. G. Parayil and T.T. Sreekumar, "Kerala's Experience of Development and Change: Lessons Old and New." *Journal of Contemporary Asia*, Vol. 33(4), 2003: 465-92.
22. T.T. Sreekumar and G. Parayil, "Contentions and contradictions of tourism as development option: the case of Kerala, India." *Third World Quarterly*, Vol. 23 (3), 2002: 529-548.
23. T.T. Sreekumar and G. Parayil, "Democracy, Development and New Forms of Social Movements," *Indian Journal of Labour Economics*, Vol. 45(2): 387-410, 2002.
24. G. Parayil, "The 'Revealing' and 'Concealing' of Technology." *Asian Journal of Social Science*, Vol. 26(1), 1998: 17-28.
25. G. Parayil, "The Perils of Trying to be Objective without Being Reflexive: The Kerala-Model Revisited." *Journal of Critical Asian Studies*, Vol. 30(2), 1998: 28-31
26. G. Parayil and W. Shrum, "Non-Governmental Research Organizations in Kerala, India." *Science, Technology, and Development*, Vol. 14(1), 1996: 122-132.
27. G. Parayil, "Economics and Technological Change: An Evolutionary Epistemological Inquiry." *Knowledge and Policy*, Vol. 7(1), 1994: 79-91.
28. G. Parayil, "Technological Change as a Problem-Solving Activity." *Technological Forecasting and Social Change*, Vol. 40(3), 1991: 235-248
29. G. Parayil, "Schumpeter on Invention, Innovation and Technological Change." *Journal of the History of Economic Thought*, Vol. 13, 1991: 78-89
30. G. Parayil, "Models of Technological Change: A Critical Review of Current Knowledge." *History and Technology*, Vol. 10, 1993: 105-126.
31. G. Parayil, "Social Movements, Technology and Development: A Query and an Instructive Case from the Third World." *Dialectical Anthropology*, Vol. 17, 1992: 339-35.
32. G. Parayil, "The Green Revolution in India: A Case Study of Technological Change." *Technology and Culture*, Vol. 33(4), 1992: 737-756
33. G. Parayil, "Technological Knowledge and Technological Change." *Technology in Society*, Vol. 13(2), 1991: 289-304
34. G. Parayil, "Development Studies: A Progressive Research Tradition." *Science Studies*, Vol. 3(2), 1990: 47-56
35. G. Parayil, "Science for social revolution: Science and Culture in Kerala." *Impact of Science on Society*, Number 155, 1989: 233-240.

## RESEARCH FUNDING/RESEARCH PROJECTS/AWARDS

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1. Environmental protection with climate co-benefits in selected major cities in China, India, Indonesia, Brazil and Japan, United Nations University Institute of Advanced Studies, funding of 130 million JPY (\$1.3 million) per year for four years from the Ministry of the Environment, Japan (2009-2013) (with Dr. Jose Puppim de Oliveira).
2. Systems of Innovation and Science and Technology Policy, Research grant from the University of Oslo & Norwegian Research Council, 1,200,000 NOK (2004-2008).
3. Sustainable Innovations, Faculty of Social Sciences, University of Oslo & Norwegian Research Council, NOK 250,000 (2007-2008).
4. The Dynamics of Innovation in Indian IT Industry. FASS Research Grant, National University of Singapore, 2002-03 (S\$ 10,500).
5. Life Sciences in China: Research Policy and Implications. 2002-2004, Faculty Research Fund, National University of Singapore (S\$12,500) (with Cong Cao)
6. Science Parks in Japan, Singapore, South Korea and Taiwan: Lessons for Hong Kong, Industrial Support Fund, Department of Industry, Government of Hong Kong, 1996-2000,



- Southern Indiana, June 2022.
2. "Forging a Fair and an Equitable Global Community: Asian Responses to Contemporary Innovation Challenges," Association for Asian Studies 2021 Annual Conference, March 21-26, 2021.
  3. "The Return of the 'Machinery Question' and the Failed Promise of Globalization," School of Interdisciplinary Global Studies, University of South Florida, May 11, 2017; also delivered as Teppola Distinguished Visiting Professor Lecture, Willamette University, Salem, Oregon, April 18, 2017.
  4. "Science, Technology and Innovation in China and India: Are There Opportunities for Collaboration?" International Workshop on China and India, Dr. Seaker Chan Center for Comparative Political Development Studies, Fudan University, Shanghai, China, June 3, 2017.
  5. "The Relevance of the United Nations in the Contemporary World," University of Western Oregon, Monmouth, Oregon, May 4, 2017 (invited keynote address).
  6. "Newly-Emerging Technologies and the Future of Humanity," Faculty Research Seminar, Hatfield Library, Willamette University, Salem, OR, September 9, 2016.
  7. "Nuclear Power, Development and Geopolitics: Searching for Sustainability in Discourses of Power," Tenth International Conference in Interpretive Policy analysis, Lille, France, July 8-10, 2015 (with Manu V Mathai).
  8. "Sustainable Development and Peace," Ninth World Youth Ambassadors for Peace Conference, Scottsdale, AZ, August 24, 2014 (keynote address).
  9. "Enhancing social justice and reducing inequality key to sustainable international development," Program in Sustainable International Development, Heller School of



and Technology Studies, Rensselaer Polytechnic Institute, May 20, 2013 (invited seminar presentation).

18. “Innovation systems and economic development: global-local linkages and equity” and “Mapping the technological trajectories and innovation systems in biotechnology from modernization to globalization.” Technical University of Lisbon, May 23 – June 3, 2005 (invited lectures at PhD Summer School in Innovation and Economic Development).

19.

- China, 19-20 December 2009 (invited lecture).
34. "Science and Technology for Sustainable Societies", Distinguished Lecture, Fudan Institute for Advanced Study in Social Sciences, Fudan University, Shanghai, China, 18 December 2009.
  35. "Building an Inclusive Information Society: The Missing Link in Connecting Rural India", International Conference, Subversion, Conversion, Development: Public Interest in Technologies, University of Cambridge, UK, 24-26 April 2008.
  36. "The Internet and e-Development in India: The Missing Dimension," Singapore Internet Research Centre, School of Communication and Information, Nanyang Technological University, May 8, 2006.
  37. "Does the Social Divide Reinforce the Digital Divide? Evidence from Andhra Pradesh and Kerala in India," World Summit on the Information Society (WSIS) Official Event on the Past Present and Future of Research in the Information Society, Tunisia, November

Century Science and Technology” Department of History, Philosophy and Social Studies of Science & Technology, Tokyo Institute of Technology, Japan, 13 March 2013 (Annual Visiting Professor Lecture).

51. “Is There a Paradigm Change in Science after 50 Years of *Structure*?” Centre for the Study of Science Policy, Jawaharlal Nehru University, New Delhi, 5 February 2013.
52. “STS without Borders: A Prolegomenon for Doing STS in Asia”, National University of Singapore & Asia Research Institute, Singapore March 6, 2009 (invited)



- Ademola Adenle (PhD, Nottingham University, UK)
- Joni Jupesta (PhD, Tohoku University, Japan)
- Sulayman Sowe (PhD, Aristotle University, Greece)
- Aki Suwa (PhD, University College London, UK)
- Raquel Moreno-Penaranda (PhD, University of California, Berkeley)
- Christopher Doll (PhD, University College London, UK)
- Rasmus Bertelsen (PhD, University of Cambridge, UK)
- Jayan Jose Thomas (PhD, IGDIR, Mumbai, India)

## **GRADUATE STUDENT SUPERVISION & EXTERNAL EXAMINER**

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1. PhD Defense Committee Chair and Committee Member of Nicholas Dovellos, “Sweeping the Field: Fromm Death back to Life,” Department of Philosophy, University of South Florida, June 2020.
2. PhD Defense Committee Chair of Zachary Vereb, “A Defense and Application of a Kantian Approach to Environmental Ethics,” Department of Philosophy, University of South Florida, May 2019.
3. PhD examination & evaluation committee chair of Brian Portelli, “Foreign Direct Investment, Multinational Enterprises and Industrial Development: Backward Linkages and Knowledge Transfer in Tanzania,” Centre for Technology, Innovation and Culture, University of Oslo, December 2005.
4. PhD examination committee chair of Arne Fevolden, “Innovation and Capacity Utilisation in the Information and Communications Industries,” University of Oslo, Centre for Technology, innovation and Culture, November 2007.
5. PhD committee member of Lisa Lai-Ming Wong, “Framings of Cultural Identities,” Division of Humanities, Hong Kong University of Science and Technology, January 1999.
6. PhD examination and evaluation committee chair of Marisa D’Mello, “Understanding Selves and Identities of Information Technology Professionals: A Case Study from India,” Centre for Technology, Innovation and Culture, University of Oslo, Sep 2006.
7. PhD examination and evaluation committee chair of Jyotsna Sahay, “Understanding Organiz

13. MPhil thesis examination committee chair of Leung Wai Sze, "Jurgen Habermas' Communicative Theory," Division of Humanities, Hong Kong University of Science and Technology, September 1997.
14. MA supervisor of Arjen Mink, "Disruptive Technology and New Business. Opportunities for Environmental Management," European Studies on Society, Science & Technology, University of Oslo and Lund University (August 2007)
15. MA supervisor of Christopher Bach, "The Social Construction of Software: Innovations in Open Source Software Communities," European Studies on Society, Science & Technology, University of Oslo and University of Maastricht, August 2007.
16. MA supervisor of Sébastien Chaoulli, "Technological Change and Transition to Sustainable Energy Regime in India," European Studies on Society, Science & Technology, University of Oslo, Norway and University of Maastricht, the Netherlands, October 2006.
17. MA supervisor of Elisabeth Lokshall, "Climate Change and Technology in a Globalizing World: A Study on How Clean Development Mechanism Facilitates the Introduction of Climate Friendly Technology in Africa," Centre for Technology, Innovation and Culture, University of Oslo, May 2006.
18. MA supervisor of Carl Henrik Knutsen, "Political Regime Types and Economic Growth: Are Democracies Better at Increasing Prosperity?" Department of Political Science, University of Oslo, May 2006
19. MA thesis external examiner of Lotte Van Boxem, "Measuring Globalization – Opening the Blackbox: A Critical Analysis of Globalization Indices," University of Maastricht, October 2006.
20. MA thesis external examiner of Ana Kacarska, "Learning to destroy: VoIPs versus traditional telephony," Lund University, November 2006
21. MA supervisor of Berna Beyhan, "Consuming Innovations: A Case Study on the Domestication of Internet Banking in Turkey," Globalization, Innovation and Policy and European Studies of Society, Science and Technology, University of Oslo & Istanbul

