



V G R CHANDRAN GOVINDARAJU

BIOGRAPHICAL NOTE:

Dr. VGR Chandran is an Associate Professor at the Department of Development Studies, Faculty of Economics and Administration, [University of Malaya](#). He has also worked as a Principal Analyst of Economic and Policy Studies with Malaysian Industry-Government Group for High Technology ([MIGHT](#)), Prime Minister's Department, Malaysia. He holds a PhD in Economics and has held positions as a consultant and research associate with several international institutions including United Nations Industrial Development Organization (UNIDO), Korea Institute of S&T Evaluation and Planning (KISTEP), New York Academy of Sciences (NYAS), [Copenhagen Business School, Denmark](#), National Center of Science and Technology Evaluation, Republic of Kazakhstan, Centre for Maritime Economics and Industries (Maritime Institute of Malaysia), National Science and Research Council, Malaysia, Ministry of Science, Technology and Innovation (MOSTI), E-SUN Consultancy, Johor Corporation and Public Bank. His research focuses on industrial competitiveness, innovation and technology policy, regional and industrial development and policy evaluation. He has published in Journal of Policy Modeling, Energy Policy, Applied Economics Letters, International Journal of Innovation and Technology Management, Innovation: Management Policy and Practice and Asian-African Journal of Economics and Econometrics. His current research projects include FDI Profiling of Malaysia with Vale Columbia Centre on Sustainable International Investment, Columbia University and R&D related projects with National Science and Research Council, KISTEP and NYAS. He has given invited speech at [KIET](#), [ADBI](#), [University of Nottingham, Malaysia](#) and many other places - locally and internationally.

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PERSONAL DETAILS

Birthplace and Date: Penang, Malaysia, March, 22, 1971

Marital Status: Married, Wife-Sivagami, Son-Kavinesh and Daughter-Lavanyaa

EXPERIENCE

Associate Professor (Present)

DEPARTMENT OF DEVELOPMENT STUDIES, UNIVERSITY OF MALAYA

Principal Analyst (2011-2012)

MALAYSIAN INDUSTRY-GOVERNMENT GROUP FOR HIGH TECHNOLOGY (MIGHT)

Lecturer (2002-2011)

MARA UNIVERSITY OF TECHNOLOGY, MALAYSIA

Head of New Zealand Degree Program (1999-2002)

NILAI INTERNATIONAL UNIVERSITY COLLEGE, MALAYSIA

Consultant/Program Officer (1997-1998)

ENSEARCH

Environmental Management and Research Association of Malaysia

EDUCATION

PhD (Economics)

(University of Malaya, Malaysia)

Thesis Title: Modularity, Technology and Performance: A Study of Electronics Firms in Penang, Malaysia.

Supervisor: Prof. Rajah Rasiah, United Nations University and University of Malaya

External Examiners: Prof. Carlo Pietrobelli, University of Rome, Italy

Prof. Keun Lee, Seoul National University, South Korea

Internal Examiner: Associate Prof. Dr. Thiruchelvam

Certificate in Integrated Approach to Sustainable Development Practice

The Earth Institute at Columbia University, USA.

Masters in Environmental Economics/Management

(National University of Malaysia) CGPA: 3.55

B.A. (Hons) Economics (Second Class Upper)

(National University of Malaysia) CGPA: 3.06

COURSES TAUGHT

Master Level

- Business Economics – Management and Science University, Malaysia.
- Managerial Economics – Management and Science University, Malaysia.
- International Business – UK External Program
- Innovation Management – University of Technology, Malaysia

Degree & Diploma Level

- Econometrics – BA (Finance) UiTM
- International Trade Finance - Oxford Brookes University, U.K. in collaboration with Nilai International College & Universiti Teknologi MARA
- International Management - Oxford Brookes University, U.K. in collaboration with Nilai International College.
- Microeconomics - La Trobe University Program, Australia in collaboration with Nilai International College, & Universiti Teknologi MARA
- Macroeconomics - La Trobe University Program, Australia in collaboration with Nilai International College & Universiti Teknologi MARA
- Business Economics- La Trobe University Program, Australia
- Microeconomics - Universiti Teknologi MARA
- International Trade - Universiti Teknologi MARA
- Operation Management- Victoria University of Wellington, New Zealand in collaboration with Nilai International College
- Research Methodology/Quantitative Methods -Oxford Brookes University, U.K. in collaboration with Nilai International College

TRAINING

Endnotes, Eviews, Logistic Regression, SPSS, Hands On Training - i-Learn Portal and e-Note , Structural Equation Modeling Workshop, RASCH Analysis, Intensified Research of Priority Areas Workshop, Lotus Notes, Teaching Portfolio, Statistics in Research Seminar, Visual Basic Application, Effective Classroom Management, Establishing The Lecturer-student Relationship for Effective Teaching-Learning, Effective

Teaching Methods, Creative Teaching Techniques, Problem Based Learning, Theory and Practice of Teaching & Learning, Methodology, Motivation, Testing and Evaluation

SOFTWARE APPLICATIONS

Eviews, Microfit, SPSS, AMOS, SmartPLS and Microsoft software applications

RESEARCH PROJECTS (ON-GOING & COMPLETED)

Ongoing Projects:

- Regional Development and Economic Policy; Experience of Poland and Malaysia, University of Nottingham Research Grant.
- Public Research Assets: Transforming the Research Performance, A joint study for National Science and Research Council, Malaysia with New York Academy of Sciences. Project funded by Economic Planning Unit, Malaysia. (Project Manager- Local Project Leader & Coordinator)

Completed:

- Evaluation of R&D Programs in Malaysia - in collaboration with KISTEP, Korea (Project Collaborator)
- Stimulating private sectors R&D investment (Project Coordinator and Chapter Writer) – Report submitted to National Science and Research Council, Malaysia [[Executive Summary](#)]
- Science and Technology Policy 3 (STP 3), Ministry of Science, Technology and Innovation. (Chapter Writer) – Policy Document
- OECD Review of Innovation in South-East Asia: A Country Profile of Malaysia on Innovation, 25 March 2011 (Investigator & Chapter Writer). [[Draft](#)]
- Towards Effective Policies for Innovation Financing in Asia: Financing Innovation-The Experience of Malaysia, International Development Research Centre, Canada (IDRC) and College of Innovation, Thammasat University, Thailand. (Final Report, March 2011) [[Executive Summary](#)]
- National Innovation Policy – Chapter Writer Jun 2011 – October 2011- Ministry of Science, Technology and Innovation, Malaysia.
- Survey on the Automotive Industry In Malaysia: Evolution and Impact Of Global Crisis, Copenhagen Business School, Denmark (Researcher)
- Survey on the Internationalization of R&D in Malaysia: The Case of Danish Firms, Copenhagen Business School, Denmark. (Researcher)
- Survey on the Electronics Clusters of Penang, Malaysia –Industrial Development Report 2009, Research funded by the United Nations Industrial Development Organization (UNIDO). (Consultant)
- Study on the Impact of the 2008 Global Crisis on Malaysia and its responses, A collaborative study by University of Malaya and Institute of Strategic and International Studies Malaysia (ISIS) with funding and support from UNDP and United Nations, Kuala Lumpur. (Researcher – Data Compilation) [[Report](#)]
- Technology Commercialization Among Researchers in Malaysian Public Universities and Research Institutions, Research funded by Ministry of Science, Technology and Environment, IRPA. (Lead Researcher)
- Measuring Logistics Service Quality of a Logistics Service Provider using GAP Analysis, Research funded by the Institute of Research, Development and Commercialization, UiTM (Researcher)
- China and ASEAN: Threat or Opportunity, Research funded by the Institute of Research, Development and Commercialization, UiTM (Project Leader)
- The Trends, Prospects and Challenges of Malaysian Export Market: A Shift- Share Analysis, Research funded by the Institute of Research, Development and Commercialization, UiTM. (Project Leader)

PUBLICATIONS

Journals by area of interest

International Economics/Macroeconomics/Development Economics:

- Rajah Rasiah and Chandran Govindaraju, (2011) “Inward FDI in Malaysia and its policy context,” Columbia FDI Profiles, August 17, 2010, Columbia University in the City of New York, Vale Columbia Center on Sustainable International Investment. [\[Report\]](#)
- Chandran V.G.R., Ramesh R. & Anwar S (2011) Economic growth and government spending in Malaysia: a re-examination of Wagner and Keynesian views, *Economic Change and Restructuring*, Springer, Vol. 44(3), pages 203-219. **Scopus Indexed.**
- Chandran V.G.R. (2009) Multinationals, Technology and Localization in Automotive Firms in Asia, *Journal of Contemporary Asia*, 39 (4); 705-708. Routledge. **SSCI Indexed- Impact Factor: 0.622**
- Chandran V.G.R. and Munusamy (2009), Trade Openness and Manufacturing Growth in Malaysia, *Journal of Policy Modeling*, 31, 637-647. Elsevier. **SSCI Indexed -Impact Factor: 0.482**
- Chandran V.G.R., and Ramesh R. (2009), Stock Interdependencies: The Case Of An Emerging East Asian Economy, *ICFAI Journal of Applied Economics*, VIII(5), September-2009
- Chandran V.G.R and Gopi K. (2008), Foreign Direct Investment and Manufacturing Growth: The Malaysian Experience, *International Business Research*, Vol. 36, No. 1, pp. 83-90.
- Mahendiran N. and Chandran V. G. R. (2007), Short-Run and Long-Run Dynamics between Exports, Foreign Direct Investment and Output in the Manufacturing Sector: The Case of Malaysia, *Asian-African Journal of Economics and Econometrics*, Vol. 7 No.1-2, pp. 377-384.
- Nair, M., Deviga, V., Karunagaran, M., Chandran VGR., (2007), The rise of China’s manufacturing sector: challenges and opportunities for ASEAN-5, *The Philippine Review of Economics*, XLIII(1), 169-204.
- Chandran VGR, Veera P., Karunagaran M. & Deviga V., (2005), The Competitiveness and Specialization of Manufacturing Export: An Application of the Revealed Comparative Advantage Approach for ASEAN-5, *Economic Bulletin*, Vol 7, pp. 30-41.
- Chandran VGR & Veera P., (2003), Export Specialization, Concentration and Intra-Industry Trade: Evidence from Malaysia, *Jurnal Akademik*, Issue 3. October, pp. 99-111.
- Chandran VGR & Veera P., (2004), Money Supply and Stock Prices: A Causality Test, *Jurnal Akademik*, Issue.4/Jan-Jun 2004, pp. 137-144.

Economics of Innovation and Production:

- Ng. B., Chandran VGR and Thiruchelvam, (2012) Technological knowledge, learning and linkages in wooden furniture industry in Malaysia: A spatial innovation perspective, Accepted. *Asian Journal of Technological Innovation*, **SSCI Indexed.**
- Chandran VGR and Rasiah R. (2012) Firm Size, Technological Capability, Exports and Economic Performance: The Case of Electronics Industry in Malaysia, *Journal of Business Economics and Management* Taylors and Francis, Accepted. **SSCI Indexed -Impact factor: 3.86**
- Santhidran S., and Chandran VGR (2012) Enabling Organizational Change: Leadership, Commitment to Change and the Mediating role of Change Readiness, *Journal of Business Economics and Management*, Taylors and Francis, Accepted. **SSCI Indexed -Impact factor: 3.86**
- Wong C-Y and Chandran V.G.R. (2012) Technology stocks and economic performance of Government-Linked Companies: The Case of Malaysia, *Technological and Economic Development of Economy*, Vol. 18 (2), 248-261, Taylors and Francis, **SSCI Indexed -Impact factor: 5.36**
- Chandran VGR, Gopi K., Veera P. (2012) Product and process innovation in manufacturing: the role of government and organizational innovation, *Innovation: Management, Policy and Practice*, Accepted. **SSCI Indexed -Impact factor: 0.45**
- Supply Chain Practices in the electronics industry in Malaysia: Consequences for Supply Chain Performance, *Benchmarking: An International Journal*, Vol. 18 Issue: 6, pp.834 – 855. **Scopus Indexed.**

- Wad, P. & Chandran V.G.R. (2011) Automotive industry in Malaysia: an assessment of its development, *International Journal of Automotive Technology & Management*, 11(2), pp. 152-171. **Scopus Indexed.**
- Chandran VGR & Wong CY. (2010) Patenting Activities by Developing Countries: The Case of Malaysia, *World Patent Information*. 33 (2011) 51–57, Elsevier, **Scopus Indexed.**
- Chandran V.G.R. (2010) R&D commercialization challenges for developing countries: The case of Malaysia, *TechMonitor*, 25-30, Nov-Dec, 2010 Special Issues of Asia-Pacific Tech Monitor, Asia and Pacific Centre for Transfer of Technology, New Delhi, India – United Nations, ESCAP. [[Article](#)]
- Zolaite A, Razak A., Chandran VGR, Veera P., (2010) Supply chain integration: an empirical study on manufacturing industry in Malaysia”, *Journal of Systems and Information Technology*, Vol. 12 No. 3, (210-221), Emerald Publication.
- Rasiah R. & Chandran V.G.R. (2009) University-Industry Collaboration in the Automotive, Biotechnology and Electronics firms in Malaysia, *Seoul Journal of Economics*, 22(4), 529-550.
- Chandran V. G. R., Farha A. G. and Veera P. (2009), The Role Of Collaboration, Market and Intellectual Property Rights Awareness in University Technology Commercialization, *International Journal of Innovation and Technology Management*, Vol. 6, No. 4, 363-378. Imperial College, World Scientific.
- Chandran V. G. R and Veera P. (2008), Technical Efficiency And Technological Change In Malaysian Service Industries, (with Veera P.) *Applied Economics Letters*, Vol. 15, No. 8, pp. 655-657. Routledge, Taylor and Francis. SSCI Indexed - Impact Factor: 0.294
- Chandran V. G. R., Farha A. G. and Veera P. (2008), The Commercialization of Research Results Among Researchers in Public Universities and Research Institutions, *Asian Profile*, Vol. 36, No. 3, pp. 235-250.
- Veera P. & Chandran VGR, (2004), The Supply Chain Management In Reverse Logistics: A Case Of Product Recovery Management. *Jurnal Akademik*, Issue 4 / Jan-Jun, pp.145-162.
- Veera P., Naser M & Chandran VGR, (2005), An Analysis of Competitiveness of Malaysia Airlines System Berhad (MAS): A Strategic Management Approach, *Jurnal Akademik*, Issue 5, Jan-Jun, pp. 84-101.

Energy Economics

- Chandran V.G.R. Susan S. and Karunagaran M. (2009) Electricity consumption-growth nexus: The case of Malaysia, *Energy Policy*, 38(1), 606-612 Elsevier. **SSCI Indexed- Impact Factor: 1.752**

WORKING PAPER/REPORTS

INTERNATIONAL

- Thiruchelvam, K., Chandran V.G.R, Ng B. K. & Wong, C.Y (2011) OECD Review of Innovation in South-East Asia: A Country Profile of Malaysia on Innovation, 25 March 2011.
- Thiruchelvam, K., Chandran V.G.R, Ng B. K. & Wong, C.Y (2011) Towards Effective Policies for Innovation Financing in Asia: Financing Innovation-The Experience of Malaysia, IDRC, Canada. (Draft Final Report, March 2011)
- Wad P. and Chandran VGR, (2010) Automotive Industry in Malaysia: Evolution and Impact of Global Crisis, (with Pater Wad) In: *The Global Economic Crisis: Sectoral Coverage: Automotive Industry: Trends and Reflections*. ed. / IanGraham. Geneve : International Labour Organisation (ILO), p. 146-168 (International Labour Organization Working Papers; 278). [[Report](#)]
- Chandran V. G. R , Rasiah R. and Wad P. (2009) Malaysian Manufacturing Systems of Innovation and Internationalization of R&D, Working Paper, Copenhagen Business School, Denmark.
- Rasiah R., Wad P. and Chandran V.G.R., (2009) Internationalization of R&D to Emerging Markets: The Case of Danish Subsidiaries in Malaysia, Working Paper, Copenhagen Business School, Denmark.
- Chandran V.G.R (2008) Electronics Cluster in Penang, Malaysia: Current Status and Obstacles to Development, Background Paper for UNIDO’s Cluster Study, UNIDO, Vienna, Austria.
- Industrial Development Report 2009, UNIDO, Vienna, Austria (Contributor) [[Report](#)]

NATIONAL

- Forum on Science, Technology and Innovation (STI) and The New Economic Model - Rapporteur's Summary prepared for MOSTI - April 27, 2010.
- Commercialization of R&D results – Report prepared for MIGHT/MOSTI
- Tenth Malaysia Plan- Brain Gain Malaysia Workshop, Workshop Proceedings, 30 June 2009, Ministry of Science, Technology and Innovation – (Contributor)
- Tenth Malaysia Plan - Brain Gain Malaysia Workshop, A Review of Successful Brain Gain Programs, 31 August 2009, Ministry of Science, Technology and Innovation – (Contributor)
- MOSTI's Science, Technology and Innovation Strategic and Action Plan 2010-2020; Chapter Writer.
- Study on the Impact of the 2008 Global Crisis on Malaysia and its responses, A collaborative study by University of Malaya and Institute of Strategic and International Studies Malaysia (ISIS) with funding and support from UNDP and United Nations, Kuala Lumpur.
- The Commercialization of Research Results Among Researchers in Public Universities and Research Institutions, Report submitted to MOSTI, IRPA.
- The Trends, Prospects and Challenges of Malaysia's Export Markets: A Shift-Share Analysis, Report submitted to IRDC, UiTM
- Specialization and Competitiveness of ASEAN and China Trade: Is a treat or Opportunity?, Report submitted to IRDC, UiTM
- Quality Performance among Third Party Logistics Providers, Report submitted to IRDC, UiTM
- Sumbangan Johor Corporation Terhadap Pembangunan Ekonomi Melayu, Report submitted to Johor Corporation, Johor.

Submitted Articles under Review in Journals

- Chandran VGR & Shahbaz Muhammad, Gas Consumption and Economics Growth in Pakistan, Energy Policy, SSCI Indexed.
- Wong C., Chandran, VGR., and Ng, B., Telecommunication Industrial Development: The role of rents and industrial policy in the technology diffusion process, Telecommunication Policy, SSCI Indexed.

Articles under Revision/On-Going Working Papers

- Chandran VGR & Tang, F. Coal Consumption, CO2 Emission and Economic Growth in China and India.
- Chandran V.G.R., Electronics Cluster in Penang, Malaysia: Current Status and Obstacles to Development.
- Chandran VGR, Modularity, Technology and Performance: The study of electronics industry in Penang, Malaysia

BOOKS

- Research Methodology: A Simple Guide for Business Undergraduates, University Publication Centre, UiTM Press.
- Research Methodology Workbook, University Publication Centre, UiTM Press.
- Malaysia's Quest for Innovation: Prospects and Lessons, In Press, UTM Press.

CHAPTER IN BOOKS

- Malaysia's Manufacturing Innovation Experience (with Rajah Rasiah and Peter Wad): In Rasiah, Lin., Y & Sadoi, Y. (eds) Innovation and Industrialization in Asia, Routledge, 2012. [\[Link\]](#)

- Innovation and Technological Progress in Malaysia: in Rasiah R. (eds.) *Malaysian Economy: Unfolding Growth and Social Change*, Oxford University Press 2011.
- Short-run and long-run dynamics between exports, Foreign Direct Investment and output in the manufacturing sector: the case of Malaysia (with Mahendhiran Nair), Siddhartha Sarkar (ed), *Global Economic Integration and Inequality*, New Delhi, Serials Pub., 2007.

CONFERENCE/WORKSHOP/SYMPOSIUM PAPERS

- Communicating Change in Malaysia: Leadership, Commitment to Change, and the Mediating Role of Change Readiness (with Junbo Borrromeo and Santhidran Sinnappan) Paper presented at the 5th Asia Organization Development Summit: Transforming Asian Organizations towards Global Competitiveness and Sustainability, October 27-29 2010, Manila Philippines.
- Innovation Systems in Malaysia: Perspective from the University-Industry Research Collaboration, (with Veera P. and Santhidran S.) Paper presented at the 7th Asialics International Conference, 15-17 April 2010, Taipei, Taiwan.
- Process Technology and Performance: A study of supply chain practices in electronics industry in Malaysia (with Veera P. & Abdul Razak) Paper presented at the 7th Asialics International Conference, 15-17 April 2010, Taipei, Taiwan.
- Modularity, absorptive capacity and technological capabilities, paper presented at the 19th International Conference for the International Association of Management of Technology (IAMOT) March 7-11, 2010, Cairo, Egypt.
- University-Industry R&D Collaboration in the Electronics and Biotechnology firms in Malaysia (with Rajah Rasiah), Paper presented at the Industrial Dynamics and Sectoral Systems in Developing Economies Conference, organized by Dynamics of Institutions and Markets in Europe (DIME) University of Bocconi, Milan, Italy. 10-11 December, 2009.
- University-Industry Collaboration in the Automotive, Biotechnology and Electronics firms in Malaysia (with Rajah Rasiah), Globelics 7th International Conference organized by UNU-MERIT and CRES, UCAD, 6-8 October 2009, Dakar, Senegal.
- Modularity, Technology Capability and Firm Performance: The Case of Electronics Industry in Malaysia, paper presented in Third International Graduate Theses Conference, 4-7 March 2009, Hyderabad, India.
- Supply Chain Integration Capability and Impact on Firms Performance (with Veera Pandiyan Kaliani Sundram, Ahmad Razi Ramli, Muruga Chinniah) Paper presented at the International Accounting and Business Conference 2008: Globalising Business and Financial Integrity Towards Economics Sustainability, 18-19 August 2008, Johor Bahru, Malaysia.
- Manufacturing Modularity and Firm Competitiveness: The Case Of Electronics, Penang, Malaysia, Globelics 6th International Conference 2008, 22 – 24 September, Mexico City.
- Modular-Based Production Practices, Firm Competitiveness and Technological Capabilities: The Case of Electronics, paper presented at the 3rd Graduate Forum on Southeast Asia organized by Asia Research Institute, National University of Singapore, 27-29 July 2008.
- Electronics Cluster in Penang, Malaysia: Current Status and Obstacles to Development, Paper presented at the Expert Group Meeting on Industrial Development Report 2008, 29-31 October 2007, UNIDO, Vienna, Austria.
- The Commercialization of Research Results Among Researchers in Public Universities and Research Institutions, The 4th ASIALICS International Conference: Making Innovation Work for Society: Experience from Asia, 22-24 July 2007 Kuala Lumpur.
- Foreign Direct Investment and Manufacturing Growth: The Malaysian Experience, URDC Colloquium V Series , 4th October 2006.
- Trade Dynamics Between China and ASEAN-5: An Empirical Analysis, Paper presented at the 30th Annual Conference of the Federation of ASEAN Economic Associations : India and China: Challenges and Opportunities for ASEAN, Asian Institute of Management Conference Centre, Paseo de Raxos, Makati, Philippines, Nov. 24-25 2005.
- Impediments of Technology Commercialization: Lessons from Universities and Research Institutions in Malaysia, National Conference on Management of Technology and Technology Entrepreneurship, Putera Pan Pacific 31st May – 2nd June 2005, organized by University Technology Malaysia.

- Science, Technology and Innovation in Malaysia: What do the key indicators suggest?, IRPA Seminar 27-29 February 2005, Marriott Hotel, Putrajaya
- The Compounded Role of E-Commerce in Achieving Supply Chain Excellence in Manufacturing Perspective (with Thirunavukkarasu & Veera Pandiyan) Paper presented at the Seminar on E-Commerce 2005: Recharging for The Challenge Ahead, 10-11 January 2005, The Summit Hotel, Subang Jaya, Organized by Department of Audit and Information Systems, Faculty of Accountancy, Universiti Utara Malaysia
- Trade Specialization And Competitiveness Of China And ASEAN–5, University International Business Management Conference, Hyatt Regency Hotel, Kuantan, 6 and 7 December 2004 organized by University Tenaga Nasional
- Policy Endorsement in High Tech-Export Industries of Malaysia: A Regiocentric Approach, Second Economic Colloquium, Golden Legacy, Malacca, 24 May 2004.
- The Trends, Prospects and Challenges of Malaysian Export Market: A Shift-Share Analysis, Conference on Scientific and Social Research, Crowne Plaza Riverside Hotel, Kuching, Sarawak 19-21 May 2004, Organized by IRDC, UiTM Sarawak and Faculty of Applied Sciences, UiTM
- The Trends, Prospects and Challenges of Malaysian Export Market: A Shift- Share Analysis, 2nd National Conference, organized by URDC, Riviera Bay Resort, 21 February 2004
- ASEAN TRADE: The Relative Revealed Comparative Advantage of ASEAN Manufactured Exports 1996-2000, (with Deviga V., Karunagaran M. & Veera P.) Paper presented at the Asia Pacific Business Environment: Innovative Responses to Regional Events International Conference on 21-22 January 2003, Concorde Hotel, Shah Alam, Organised by Auckland University of Technology.
- The Effectiveness of Sectoral Contribution Towards the Malaysian Economic Performance, (with Deviga V., Karunagaran M. & Veera P.) Paper presented at the National Seminar on Managing Malaysia in The New Millennium: Economics and Business Challenges on 1 –2 July 2003, Riviera Bay Resort, Melaka.Organised by UiTM Alor Gajah.
- Reverse Logistics: A Review of Definitions and Comparison of other related Logistics Concepts,(with Veera Pandiyan) Proceeding of the 2nd National Conference on Transportation Management: Issues and Challenges, 20-21 October 2003, Grand Blue Wave Hotel, Shah Alam, Organized by Transportation Management Institute, University Utara Malaysia and Malaysian Center for Transportation Studies, MARA University of Technology.
- ISO 14000 As A Business Strategy for the 21st Century : An Economic Perspective, Paper presented at the Economic Colloquium ,29 October 2002 , MARA University of Technology, Segamat, Johor

CONSULTANCY WORK

Current:

- National Innovation Policy – Chapter writer Jun 2011 – October 2011- Ministry of Science, Technology and Innovation.
- Towards Effective Policies for Innovation Financing in Asia, International Development Research Centre, Canada (IDRC) and College of Innovation, Thammasat University, Thailand (2 years – Jan 2010-Dec 2011)

Completed:

- Rapporteur’s Summary on Forum on Science, Technology and Innovation (STI) and The New Economic Model - MOSTI - April 27, 2010.
- National Innovation System – MOSTI – 14-16 January 2010.
- Malaysian Industry Government Group for High Technology (MIGHT) – MOSTI’s – Technology Commercialization report–
- Copenhagen Business School, Denmark, 2009, Background paper on Automotive Industry In Malaysia: Evolution and Impact Of Global Crisis
- Malaysian Industry Government Group for High Technology (MIGHT) – MOSTI’s Strategic and Action Plan 2010-2020
Work Details:

- Chapter writer for the MOSTI's Science, Technology and Innovation Strategic and Action Plan 2010-2020
 - Consolidating the flow of all chapters of the Action Plan.
- ISIS and United Nations, Kuala Lumpur, 2009, Study on the impact of the 2008 Global Crisis on Malaysia and its responses.
 - Work Details:
 - Assisting the lead writer in data compilation
 - Assessing the impact of crisis on macroeconomic indicators of Malaysia as well as on human development
 - Assessing the potential effects and the effectiveness of fiscal stimulus packages implemented by the government
- Copenhagen Business School, Denmark, 2008, Internationalization of R&D in Malaysia: The Case of Danish Firms
 - Work Details:
 - Prepare the background report on Malaysian Manufacturing Systems of Innovation
 - Data Collection of Danish Firms in Malaysia
 - Prepare a report on R&D activities of Danish firms in Malaysia
- United Nations Industrial Development Organization, 2007, Electronics Cluster Study – Cross Continent Study in 14 Industry Clusters in Asia, Africa and Latin America. Position: National Consultant
 - Work Details:
 - Prepare the background report on Electronics Cluster in Penang, Malaysia
 - Prepare a diagnostic report on the Electronic cluster
 - To undertake interviews and fieldwork survey on 100 electronic firms (upstream and downstream), 100 household and 30 government and non-government institutions for the preparation of the Industrial Development Report 2009.
- Johor Corporation, 2006, Johor Corporation's contribution towards the Economic Development of Bumiputeras.
 - Work Details:
 - To develop a framework and assess the Corporation's economic contribution of the Bumiputeras.
 - Critical assessment on employment, income generation, social contribution, entrepreneurship, etc.
- Public Bank, 2005, Customer Service Survey for Public Bank: In line with their Customer Service Campaign
 - Work Details:
 - To measure the customer service given by the bank officers mainly the front counters which includes the teller, customer service representative and loan officers.
 - Areas: Methodology of carrying out the assignment, role-play on live transaction and enquiries.
 - Duration: 4 weeks
- ENSEARCH, 2002, Training Course on Environmental Management System (EMS) ISO 14000 Specially for Food and Beverage Industry and Power Generation Industry
 - Work Details:
 - Conducting and facilitating the training course
 - Duration: 3 days of Workshop with practical application

INVITED LECTURES/TALKS

- Industrial Development in Malaysia, Korea Institute for Industrial Economics and Trade, Seoul Korea, Guest Speaker
- The role of S&T and industrial competitiveness in Malaysia, University of Nottingham, Malaysia.
- Innovation Financing in Malaysia, Thammasat University, Bangkok, Thailand.
- Research Methodology and Publications – UiTM, Johor Bahru, 18 May 2011
- Running a proper regression analysis – UiTM, 18 April 2011
- Time Series Analysis – UiTM, 8 March 2011

- Industrialization in Malaysia – University of Malaya, Department of Science and Technology Policy Studies.
- Research and publications- Maritime Institute of Malaysia
- Publish or Perish – Nilai International College, Nilai, Negeri Sembilan.
- Electronics Cluster Development in Malaysia, United Nations Industrial Development Organization, Vienna, Austria.
- Progress of electronic industry in Malaysia: Drivers and challenges in the era of globalization – lessons for India- Bratathidasan University, Thiruchi, India.
- 3rd Science and Technology Policy, Chapter 1 of the S&T Policy, Putrajaya International Conventional Centre, behalf of MIGHT and MOSTI.
- Brain Gain Programmes: Challenges and the future, Paper based on a group brainstorming section during the RMK-10 Brain Gain Malaysia Workshop, Putrajaya Conventional Centre behalf of MOSTI.

AWARDS

- Travel Grant for International Association Management of Technology Conference, Egypt. Sponsored by Ministry of Higher Education.
- Travel Grant for the Graduate Theses Conference, Hyderabad, India. Sponsored by IBS, India and University of Malaya
- Graduate Forum Sponsorship by Asia Research Institute, National University of Singapore.
- PhD scholarship (3 years study) – Ministry of Higher Education, Malaysia and University Technology MARA.
- Bachelor Degree Scholarship (4 years study) – Association for the Promotion of Higher Education in Malaysia (APHEM)
- Best Paper Award [Paper Title: China and ASEAN: Threat or Opportunity] – Institute of Research, Development and Commercialization, University Technology MARA

REVIEWER/REFEREE

- International Business Review, Economic Modeling, Journal of the Asia Pacific Economy, Applied Economics Letters, Applied Economics, International Journal of Economics and Institutions (University of Malaya, Journal of Contemporary Asia, Asia Pacific Business Review, International Economics Journal, Innovation and Development Journal.

INTERNATIONAL ADVISORY BOARD

- Pakistan Economic and Social Review – Journal
- National Center of Science and Technology Evaluation, Republic of Kazakhstan

EXTERNAL EXAMINER (POSTGRADUATE)

- University of South Australia – PhD Thesis
- University of Malaya – Master Thesis

PROFESSIONAL MEMBERSHIP

- Malaysian Economics Association, University of Malaya
- Malaysian Agricultural Economics Association, University Putra Malaysia
- SPSS User s' Association of Kuala Lumpur & Selangor

COMMITTEE MEMBERS

- Committee Member for 8th GLOBELICS conference 2009-2010, University of Malaya.
- Committee Member of Unit of Research, Development and Commercialization (URDC), UiTM Johor, July 2006 – December 2007.
- Committee Member in organizing the Structural Equation Modeling Workshop held in UiTM Johor on 4 & 5th January 2006.
- Secretariat - Forum R&D Collaboration between Small Medium Industries and Universities/Research Institutions in Hotel Mutiara, Johor Bahru on 28th September 2005.
- Panel Member for Finance Project FIN660, Semester July-November 2006. Held in Block Cendikiawan/Usahawan/Sri Laksamana UiTM Johor, on 4th October 2006.
- Facilitator of Microeconomics Course, Workshop on the Joint Program between UiTM and SAL College
- Committee Member – Research Seminar held in Riveria Bay Resort, Melaka, Organized by URDC, UiTM, Johor.
- Committee Member -Economics Colloquium in Golden Legacy, Melaka, 24 May 2004 Organized by Department of Economics Universiti Teknologi MARA, Johor
- Volunteer for the development program UiTM, Johor
- Working Member –RASCH Item Analysis workshop, Organised by UiTM, Johor
- Course Leader: Microeconomics, UiTM
- Committee Member of the UiTM Toastmasters Club.

DISSERTATION SUPERVISION (SELECTED)

PhD

- Chamara Bandara, Sri Lankan experience on factors affecting business failures in SME sector. PhD, Management and Science University, Malaysia.
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