Contributors

**Amir H. Alizadeh** is the Director of MSc Energy, Trade and Finance at City University Cass Business School (London), UK. He joined City University Cass Business School where he finished his MSc in shipping, Trade and Finance and his PhD in Finance. Currently he is lecturing in Quantitative Methods, Shipping Economics, Econometrics and Shipping Risk Management. His research interests include modelling freight markets and markets for ships, derivatives and risk management in financial and commodity markets, and forecasting. He has published in several academic journals in the area of transportation, finance and economics.

**Carlos Barros** researches transport economics and serves on the boards of the journals *Maritime Economics and Logistics* and the *International Journal of Shipping and Transport Logistics*. He has published in top transportation journals.

**Hassiba Benamara** is Economic Affairs Officer in the Division on Technology and Logistics of UNCTAD (United Nations Conference on Trade and Development), where she deals with a range of economic and policy issues in the field of transportation. Recent work has focused in particular on maritime transport and climate change, the effect of oil prices on maritime freight rates, as well as maritime and supply chain security. Moreover, Hassiba is responsible for the preparation of the chapter dealing with seaborne trade in UNCTAD’s *Review of Maritime Transport*, one of UNCTAD’s flagship reports, which is published annually. Hassiba holds a postgraduate degree in Economics from the University of Ottawa, Canada. Prior to joining UNCTAD, Hassiba worked for several years for the Canadian Ministry of Transport on a range of transport trade policy issues and represented the Canadian Government at the International Maritime Organization (IMO) and the World Trade Organization (WTO) meetings as well as in regional trade negotiations. Relevant substantive areas of work have included marine insurance and liability as well as transport and logistics services trade liberalization.

**Angela Stefania Bergantino** graduated from the University of Bari and followed postgraduate studies at the University of York (UK), University of Palermo and University of Rome ‘La Sapienza’ (MSc in Economics and PhD in Transport Economics). She has been a visiting
researcher at the University of Antwerp (Belgium) and in the Institut d’Économie Industrielle – IDEI (Toulouse, France). She started her academic career in Cardiff (UK) in 1996, became Assistant Professor at the University of Parma in 1999 and, since 2002, has been Associate Professor of Applied Economics at the University of Bari. She is referent for the Interregional Centre of High Competences in Transport and for the Logistic District, President of the Masters in Logistics, Transport and New Economy and, since 2006, a member of the board of the Italian Association of Transport Economists (SIET). She has published widely in academic journals on transport, maritime and port economics and regulatory issues. She is on the editorial board of the International Journal of Transport Economics and acts as an external referee for a number of international academic journals: Transportation Research – Part E, Maritime Policy and Management, Regional Science and Urban Economics, European Transport and the Journal of Maritime Studies. She directs national and international projects and has been active as a consultant for private and public organizations including a number of Italian regional and local authorities, port authorities, shipping associations, ministries (Transport, Finance, Treasury), Public Utilities Regulatory Authority (NARS), and the organisation for Economic Co-operation and Development (OECD).

Rickard Bergqvist received his PhD entitled ‘Studies in Regional Logistics – The Context of Public–Private Collaboration and Road–Rail Intermodality’ from the University of Gothenburg in 2007. He is Assistant Professor in Logistics and Transport Management at the Transport and Logistics Research Group, School of Business, Economics and Law, University of Gothenburg. Key research areas are regional logistics, intermodal transportation, dry ports and public–private collaboration. His major works include a dozen scientific articles related to shipping, intermodal transport, dry ports, economic modelling and public–private collaboration. His work has appeared in Maritime Economics and Logistics, Journal of Interdisciplinary Economics, World Review of Intermodal Transportation Research, Place Branding and Public Diplomacy, Transportation Planning and Technology, International Journal of Logistics: Research and Applications, Transport Reviews, Supply Chain Forum and Mapping and Image Science.

Pierre Cariou is a Professor at the Marseilles Business School (Euromed-Management). Prior to this, he held the French Chair in Maritime Affairs at the World Maritime University in Malmö, Sweden, where he was in charge of Shipping and Port Management specializations. From 2001 to 2004, he was Associate Professor in Economics at the Faculty of
Economics of Nantes (France). He completed his PhD in 2000 on liner shipping strategies and contributed to several reports for the French Parliament (Commissariat General du Plan) and for the Port Authority of Nantes on the shipbuilding markets, port impact studies and stevedoring markets. His main research interests are in shipping and port economics and maritime safety.

Kevin Cullinane is Director of the Transport Research Institute at Edinburgh Napier University, UK, and Visiting Professor of International Logistics at the University of Gothenburg, Sweden. He was formerly Chair in Marine Transport and Management at Newcastle University, Professor and Head of the Department of Shipping and Transport Logistics at the Hong Kong Polytechnic University, Head of the Centre for International Shipping and Transport at Plymouth University, Senior Partner in his own transport consultancy and Research Fellow at the University of Oxford Transport Studies Unit. He has published seven books and over 160 refereed journal papers. He is Associate Editor of *Transportation Research A: Policy and Practice* and the *International Journal of Applied Logistics* and sits on the editorial boards of *Transport Reviews*, the *International Journal of Logistics Management, Maritime Economics and Logistics*, the *Annals of Maritime Studies*, the *Journal of Shipping and Logistics* and the *Proceedings of IMechE Part M: Journal of Engineering for the Maritime Environment*. He has been a Chartered Fellow of the Chartered Institute of Logistics and Transport since 1996 and has been a logistics adviser to the World Bank and transport adviser to the governments of Hong Kong, Egypt, Chile, Scotland and the UK. He holds a Visiting Professorship at Dalian Maritime University in China, as well as an Honorary Professorship at the University of Hong Kong.

Alan Fox received his PhD in Economics from the University of Michigan in 2000 and joined the Research Division of the US International Trade Commission shortly thereafter. His research focus is on assessing the effects of public policy on international trade. He has conducted a number of analyses of free trade agreements, as well as investigating the importance of non-tariff barriers to trade and the interaction of climate policy and trade policy.

Mike Fusillo is an independent economics consultant and part-time lecturer at Tufts University and Boston College. He was formerly a Principal Economist with the Louis Berger Group in New York City where he specialized in the economics of maritime transport and trade, road transport and policy, energy infrastructure, and antitrust and regulation. He has worked on and led consulting projects in the transport sector across
North America, South America and Europe. Mike has taught Economics at Baruch College and New York University.

David Glen is currently Reader in Transport at London Metropolitan University, UK. He has an MA in Economics from Essex University and a PhD from the London Business School on Tanker Market Segmentation. His main research interests are the modelling of shipping markets, greenhouse gas emissions from shipping and the analysis of UK seafarers, for which he holds a contract with the UK Department for Transport. He is an Editorial Board member of Maritime Policy and Management and a member of the UK Department for Transport Advisory Group for Maritime Statistics.

María M. González holds a PhD in Economics and is Assistant Professor of Economics at the University de Las Palmas de Gran Canaria, Spain, where she is a member of the Economics of Infrastructure and Transport Research Group. She is a specialist in the study of efficiency and regulation. She has worked on research projects both for public and private institutions, at national and international level, such as for the World Bank, the Spanish government, the Canary Islands Regional Government and the BBVA Foundation. She has recently published in *World Development, Applied Economics, Transport Research*, and the *Journal of Transport Economics and Policy* and she has published books and chapters in books about port and maritime economics.

Hercules Haralambides is a tenured Full Professor of Maritime Economics and Logistics at Erasmus University Rotterdam and Director of the Erasmus Center for Maritime Economics and Logistics. He is also Founding Editor-in-Chief of *Maritime Economics and Logistics*. In 1989, Professor Haralambides founded the Special Interest Group (SIG2) on Maritime Transport and Ports of the World Conference on Transport Research Society (WCTRS) and in 1990, together with Richard Goss and Tor Wergeland, he established the International Association of Maritime Economists (IAME). He has written and published extensively on many aspects of port and shipping policy and economics. His papers have won the Yokohama Prize for excellence at the 5th World Conference on Transport Research and the Jovellanos Award (Spain) for Originality and Quality. He has worked as a senior adviser and researcher to government and industry, in most European countries as well as in Australia, New Zealand, China, Korea, Malaysia, Thailand and India. In the period 1994–96 he was also senior adviser to the International Labour Organization (ILO), responsible for research on Port Restructuring and Labour Reform: a project that looked into more than 100 ports around
the world culminating in guidelines for successful port privatization in developing countries. In the period 1995–96, he was a member of Commissioner Neil Kinnock’s ‘wise men’ Group on Maritime Transport (work that culminated in the EC Strategy Document Towards a New Maritime Strategy) and in 1997–98 a member of Commissioner Kinnock’s Consultative Committee on Ports and Maritime Infrastructure (that led to the Commission’s seminal work on ports, the Green Paper on Ports and Maritime Infrastructure). In the context of his work for the European Union, Professor Haralambides has effectively contributed to the formulation of EU policies in the shipping and port sectors. In 2008, Hercules was decorated with the Golden Cross of the Order of the Phoenix by the President of the Hellenic Republic.

Jan Hoffmann has worked for the United Nations Conference on Trade and Development (UNCTAD) in Geneva since 2003, currently as Chief of the Trade Facilitation Section. He is in charge of projects in Afghanistan and Pakistan, support to the trade facilitation negotiations at the World Trade Organization (WTO), UNCTAD’s Transport Newsletter, and parts of the Review of Maritime Transport. He edits IAME-News and is a member of the editorial boards of Maritime Economics and Logistics and Maritime Policy and Management. Previously, he spent six years with the Economic Commission for Latin America and the Caribbean (ECLAC) (Santiago de Chile) and two years with the International Maritime Organization (IMO) (London). Prior to this, he held part-time positions as assistant professor, import–export agent, translator, consultant and seafarer for a tramp shipping company. Jan has studied in Germany, the UK and Spain, and holds a doctorate degree in Economics from the University of Hamburg.

Mohamed Hussain was a masters student within the Centre for Maritime Economics & Logistics at Erasmus University Rotterdam, The Netherlands, at the time he made his contribution to this volume as a co-author.

Arne Jensen has been Research Fellow and Professor of Transport Economics and Logistics at the University of Gothenburg since 1996. Arne Jensen has conducted research within logistics, supply chain management and transport economics. He has been responsible for several research groups and guided more than 14 doctoral candidates to their PhD dissertations as a tutor and examiner. His publication list includes more than 40 titles. He has also worked as a consultant to many Swedish companies such as Volvo Logistics, Schenker, Cementa, Alfa Laval, Atlas Copco, the Swedish State Railways, the Port of Gothenburg, and several public sector organizations.
Manolis G. Kavussanos is a faculty member of the Athens University of Economics and Business (AUEB), Greece. He is the Director of the MSc and PhD programmes in Accounting and Finance and of the Research Centre for Finance at AUEB. He holds a BSc and MSc (Economics) from London University and a PhD (Applied Economics) from City University Cass Business School, London. He launched and directed the MSc in Trade, Logistics and Finance at Cass until he joined AUEB. He has held various posts as Professor of Finance and Shipping in universities in more than eight countries around the globe. He has written extensively in the areas of finance, shipping and applied economics and has been the author of numerous pieces of academic work published in top international refereed journals, in conference proceedings and books. His work has been presented in international conferences and professional meetings around the world, gaining awards for its quality, being sponsored by both public and private sector companies and being cited extensively by other researchers in the area. Since 1992 he has worked in developing the area of risk analysis and management in shipping and is the co-author of a unique and most comprehensive book on risk management and derivatives in shipping (Kavussanos, M.G. and Visvikis, I.D. (2006), Derivatives and Risk Management in Shipping, London: Witherby Publishing).

Paul Kent is Vice-President of Nathan Associates Inc.’s Infrastructure Planning and Economics practice. His research focuses on port sector institutional reform, privatization, regulation, performance assessments and logistics analysis. Primary co-author of the Regulatory Module of the World Bank’s Port Reform Toolkit, Paul has 30 years’ experience in more than 40 countries around the world. Paul received his PhD in Maritime Economics from Russia’s Central Scientific Institute for Water Transport Economics and Operations. He also received a Master of Science in Urban Studies degree from the University of New Orleans and a Master of Public Administration degree from West Virginia University.

Jacob Kronbak is Associate Professor at the Department of Maritime Research and Innovation at the University of Southern Denmark. His expertise is in transport system analysis and strategic transport planning with a special focus on maritime transport and spatial modelling of intermodal transport systems in GIS (geographical information systems). He has participated in several activities especially in the fields of national and international strategic transport planning studies. His present research focus is on spatial modelling of short sea shipping, transport corridors and motorways of the sea (MoS). This research also includes the use of GIS and its application to the maritime sector.
Contributors

Neophytos Lambertides received a BSc in Mathematics and Statistics from the University of Cyprus in 2000 and an MSc in Financial Mathematics from the University of Warwick in 2001. He took a PhD in Finance from the University of Cyprus in 2006. Thereafter, he was designated as a Visiting Scholar at Columbia Business School. He is currently lecturer in Finance at Aston Business School (UK). His interests are mainly in the area of asset pricing, credit risk and bankruptcy prediction, option pricing theory, real options and shipping finance. His publications have appeared in *Abacus*, the *British Account Review*, *Managerial Finance* and *Maritime Policy and Management*. He has reviewed papers for, among others, the *European Journal of Operational Research* and *Managerial Finance*.

Francesca Medda joined University College London (UCL) in 2005 as a Reader in transport economics after having previously worked as lecturer at the London School of Economics. Her current research focuses on governance and incentive performance, efficiency evaluation and assessment methodology in the transport industry. Her work has been published in leading academic and practitioner journals. She has been an advisor to the World Bank, the European Investment Bank and the International Association of Public Transport (UITP). Since 2007 she has been a member of the Executive Board of Directors of one of the major public transport companies in Italy. She is the director of the UCL Quantitative and Applied Spatial Economic Research Laboratory (QASER).

Enrico Musso is professor in Applied Economics at the University of Genoa, Italy, engaged in research and teaching in transport economics, maritime and port economics, and urban and regional planning. He has been a member of the Italian Senate since 2008. Enrico was formerly the director of the PhD program in Logistics, Infrastructure and Territory of the University of Genoa; and lecturer in the Master in Transport and Maritime Management and Transport and Maritime Economics at the University of Antwerp, Belgium. He has held teaching and research positions abroad, financed by the European Union and other public and private institutions.

Nikos Nomikos is a Reader in Shipping Risk Management and Director of the MSc degree in Shipping, Trade and Finance at Cass Business School, London. He holds an MSc and PhD from Cass Business School. He commenced his career at the Baltic Exchange as Senior Market Analyst, being in charge of the freight indices and risk management divisions. Since November 2001, he has been with the Faculty of Finance at Cass Business School where he specializes in the area of freight derivatives and risk
management. His research papers on derivatives pricing and modelling have been published in international journals and have been presented in conferences worldwide. He has also published (with N. Nomikos) *Shipping Derivatives and Risk Management* (Basingstoke: Palgrave Macmillan, 2009) and has developed postgraduate and executive development courses in that area.

**Theo Notteboom** is Professor at the University of Antwerp and President of ITMMA (Institute of Transport and Maritime Management Antwerp, an institute of the University of Antwerp, Belgium). He is also part-time Professor in Maritime Transport at the Antwerp Maritime Academy. He holds a Visiting Professorship at Dalian Maritime University in China. He has published widely in academic journals and books on transport and maritime economics. He has been a speaker or session chairman at around 160 international and national conferences. He is Chairman of the Board of Directors of the Belgian Institute of Transport Organizers (BITO), an institute of the Belgian government. He is President of the International Association of Maritime Economists (IAME). He also holds a royal appointment as 'working member' of the Belgian Royal Academy of Overseas Sciences and is a member of several editorial boards of leading academic journals.

**Photis Panayides** is Associate Professor in Shipping Economics at the Department of Commerce, Finance and Shipping of the Cyprus University of Technology. He holds a first-class Honours degree and a PhD in Shipping Economics/Management (1998) from the University of Plymouth, UK. Since 1995, Photis has held academic appointments to the level of Associate Professor at, among others, the University of Plymouth, ALBA Graduate Business School, the Copenhagen Business School, the Hong Kong Polytechnic University and the National University of Singapore. Photis has authored three books and over 30 scientific journal papers in the fields of shipping economics and logistics. He reviews for major journals and is on the editorial board of *Maritime Policy and Management*. Photis serves on the Council of the International Association of Maritime Economists and on the Board of Directors of the Cyprus Ports Authority.

**Stephen Pettit** is a Senior Lecturer in the Logistics and Operations Management Section of Cardiff Business School. He has been involved in a range of transport-related research projects, notably a ground-breaking project for the UK Department of Transport studying the requirements of UK shore-based businesses for people with seafaring experience. He has published in many areas including Port Policy, Multimodal Transport and Humanitarian Logistics.
Contributors

Nicolas Peypoch is Maître de Conférences (HDR) in Economics at the University of Perpignan Via Domitia in France. His research interests are about efficiency and productivity analysis and tourism economics.

Ricardo J. Sanchez is Economic Affairs Officer at the United Nations Economic Commission for Latin America and the Caribbean (UNECLAC). Currently, he is the Chief of the Infrastructure Services Unit, in charge of maritime, logistics and port issues, as well as transport infrastructure and regulatory matters. He is an economist and has an MSc in Economics of Public Utilities from the University of Paris Nanterre and University Carlos III of Madrid in Spain. His main research interests are shipping economics and port economics, including the maritime cycle, port devolution and applied industrial organization matters. He is a member of the Council of the International Association of Maritime Economists (IAME), and a member of the World Association for Waterborne Transport Infrastructure (PIANC), the Port Performance Research Network (PPRN) and the Argentine Association of Economists.

Dong-Ping Song obtained his BSc in the Department of Mathematics and his MSc in the Department of Computers and System Sciences, at Nankai University, Tianjin, China, in 1989 and 1992 respectively. He obtained his first PhD in Control Engineering at Zhejiang University, Hangzhou, China, in 1998, and his second PhD in Manufacturing Engineering at the University of Newcastle upon Tyne, UK, in 2001. He was an Assistant Teacher/Researcher and Associate Researcher in the National Laboratory of Industrial Control Technology at Zhejiang University in 1992–2000. He was a postdoctoral fellow at Imperial College London in 2001–05. He joined the University of Plymouth in 2005, and is currently a Professor in International Logistics in Plymouth Business School, UK. He has had papers published in journals including IEEE Transactions on Automatic Control, Automatica, International Journal of Production Research, European Journal of Operational Research, Naval Research Logistics, SIAM Journal on Control and Optimization, Transportation Research Part E and the International Journal of Production Economics. He was a Guest Co-Editor of the Special Issue on ‘Managing Container Operations Effectively’ for the International Journal of Shipping and Transport Logistics (IJSTL) in 2009, and a Guest Co-Editor of the Special Issue on ‘Container Transport Operations’ for Research in Transportation Economics in 2010. He is a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE). His research interests include container shipping and logistics, supply chain management, production planning and inventory control, and metaheuristics.
Wayne Talley is Professor of Economics at Old Dominion University, Norfolk, Virginia, USA, where he is the Executive Director of the Maritime Institute and holds the designations of Eminent Scholar and the Frederick W. Beazley Professor of Economics. He is an internationally recognized transportation economist. He has held visiting US positions at the Woods Hole Oceanographic Institution, US Department of Transportation, the Interstate Commerce Commission and the National Aeronautics and Space Administration and international positions at the University of Oxford (England), the University of Sydney (Australia), the University of Wollongong (Australia), the University of Antwerp (Belgium) and City University (England). He is the Editor-in-Chief of Transportation Research E: Logistics and Transportation Review.

Lourdes Trujillo is a Professor of the University of Las Palmas de Gran Canaria, Spain. She holds several degrees in Economics and Education including a MBA and a PhD in Economics and she is a member of the Economics of Infrastructure and Transport Research Group. She has consulted for the Canary Islands Regional Government, Spanish government, BBVA Foundation, the European Commission, the Organisation for Economic Co-operation and Development (OECD), the African Development Bank and the World Bank. Her areas of specialization include pricing theory, efficiency measurement, demand forecasting and regulatory design for infrastructure industries. She has recently published in Transportation, World Development, Transport Policy, Utility Policy, Applied Economics, Transport Research and the Journal of Transport Economics and Policy and she has also published books and chapters in books about port and maritime economics.

Andrianos E. Tsekrekos is Assistant Professor of Finance at the Department of Accounting and Finance, Athens University of Economics and Business (AUEB). Before joining AUEB, Andrianos has worked at Lancaster University and Durham Business School. He holds a degree in Operational Research and Marketing from AUEB, an MSc in Finance from Lancaster University and a PhD in Accounting and Finance from the same university. His research interests are in derivative pricing, real options valuation, numerical methods, stochastic and implied volatility models, and incomplete markets. He has published in a variety of economics and finance journals, including the Journal of Economic Dynamics and Control, the Journal of Banking and Finance, the Journal of International Money and Finance and Applied Financial Economics, and has contributed monograph chapters to several practitioner-oriented textbooks.
Vincent Valentine is a transport economist working for the United Nations Conference on Trade and Development (UNCTAD) in Geneva, Switzerland where he is responsible for the annual publication entitled *Review of Maritime Transport*. He was promoted to this position after having served in the Transport Division of the UN’s regional commission in Bangkok, Thailand. Prior to joining the UN he had successful careers in insurance and academia. His insurance career began in 1986 where he negotiated settlements for a leading Protection and Indemnity (P&I) Club. As an academic, he became a senior lecturer in international maritime commercial practice and undergraduate programme manager. He holds a PhD for his research into container port efficiency.

Jan van Dalen is an Associate Professor of Statistics at Rotterdam School of Management (RSM) Erasmus University Rotterdam. He graduated in Econometrics in 1986, and obtained his PhD in Quantitative Models in Wholesaling at the School of Economics at Erasmus University in 1992. His main research interests are in the quantitative analysis of information and logistics-related processes. He has published in journals like *Applied Economics*, the *Journal of Product Innovation and Management* and the *European Journal of Operational Research*.

Eric van Drunen is a maritime economist with ECORYS Nederland BV. Since 1997, he has gained research and consulting experience in port and maritime studies in many countries, particularly in the Middle East, Eastern Africa and Southern Africa. Areas of expertise include demand studies, economic feasibility studies, port masterplanning, and hinterland transport and logistics.

Albert Veenstra is Assistant Professor in Maritime Logistics at the RSM Erasmus University in Rotterdam. He has studied econometrics at the School of Economics of Erasmus University Rotterdam, and obtained a PhD in 1999 on Market Modelling in the Ocean Shipping Industry. Until recently, he was based in Beijing, and carried out his research in international transportation, port development and global and reverse logistics in China and Europe. His main research interests are currently security in logistics and transportation, inland shipping on the Yangtze River and freight rate determination. Since 2005, he has been project leader of a Dutch and European project on security in global supply chains. He is a member of the scientific advisory board of MARIN (the Dutch institute for hydrodynamics research). He was director of the university’s project company for transport and logistics related research from 1999 to 2003.

Simme Veldman graduated as an econometrician at Tilburg University in 1969 and wrote his PhD in 1990, on ‘Route Planning in a Centrally
Assisted Liner Shipping System’, an application of operations research techniques on the efficiency of liner shipping operations in Indonesia. As an economist, he has research and consulting experience since 1970 over a broad range of projects related to shipping, ports, inland transport modes and logistics. He has written a number of publications on maritime transport and ports based on quantitative research performed as part of his consultancy work on behalf of international banks, financial institutions and private clients.

**Gordon Wilmsmeier** is a Principal Research Fellow at TRI. He has a PhD in geography from Osnabrück University, Germany, and holds a masters degree in geography, transport planning and informatics from the Technische Universität Dresden, Germany. He is an internationally recognized expert in maritime transport and port development issues. Among other things, his areas of specialization are international transport and port costs, and port infrastructure development and assessment in relation to sustainable development. His main publications are in the field of maritime transport costs, networks and connectivity and port devolution, especially organizational performance and efficiency in ports. He has worked in these areas as a consultant for the Economic Commission for Latin America and the Caribbean (ECLAC), the United Nations Conference on Trade and Development (UNCTAD), the UN office of the High Representative for the Least Developed Countries, Landlocked Developing Countries and Small Island Developing States (UN-OHRLLS), the World Bank, the Inter-American Development Bank, CAF (the Andean Development Fund), the Organization of American States (OAS) and other international institutions. He has collaborated in projects in various EU programmes (5th, 6th and 7th Framework, Interreg IIIb and IVb). Gordon Wilmsmeier is also a member of the Transport Working Group of the German Association of Geographers, the International Association of Maritime Economists (IAME), and the Port Performance Network (PPRN) and the PortEconomics.eu initiative.

**Su-Han Woo** is a doctoral research student in the Logistics and Operations Management Section of Cardiff Business School. He is currently carrying out research into the measurement of port efficiency; in particular his research focuses on developing new measures for assessing port performance in the context of ports’ roles in the supply chain.

**Qing Zhang** is a Professor of Mathematics at University of Georgia. He received his BSc from Nankai University in 1983 and his MSc and PhD from Brown University in 1985 and 1988, respectively. His research interests include stochastic systems and control, filtering, and applications
in manufacturing and finance. He has published more than 100 journal papers and four monographs on two-time-scale Markovian systems and applications in manufacturing. He received a Creative Research Medal from the University of Georgia for outstanding accomplishment in research and creativity in 2000, and an M.G. Michael Award from Franklin College of Arts and Sciences at the University of Georgia for new initiatives in scholarship and excellence in research in 2009. He has co-edited five books and has been an Associate Editor of *IEEE Transactions on Automatic Control*, *Automatica* and *SIAM Journal on Control and Optimization*. He is currently a corresponding editor of *SIAM Journal on Control and Optimization*. He has also served on a number of international conference organizing committees including as Co-Chair of the AMS-SIAM Summer Seminar on Manufacturing in 1996 and Co-Chair of the AMS-IMS-SIAM Summer Research Conference on the Mathematics of Finance in 2003.