

Game Theory Applications in Port and Maritime Studies

Call for Papers for Book

Editors: Bruce Hartman and Theo Notteboom

Aims and Scope

This book aims to make analysis using game theory more accessible to those who are interested in maritime and port affairs. To reach this goal, the chapters in the book will address multiple facets of game theory applications in port and maritime studies in view of:

- Introducing readers to some important game theory concepts. Papers chosen will allow the reader not only to see the concepts described, but also to observe how the authors have used them to understand some aspect of maritime or port negotiation or transaction activity.
- Opening readers' eyes to the potential of various forms of game analysis to model scenarios of interest in the maritime and port field. Each contributed paper will discuss a real issue current today, using a game or related analysis, to provide new insight into protagonists' real world behavior, and the range of outcomes that might be expected.
- Making important contributions to key problems in the maritime and port industry today. Papers will use some mode of game theory to analyze them, and thereby reveal important aspects of real scenarios which enlighten decision makers who must cope with similar issues.

The book will be part of the Routledge Maritime Masters book series. For more information on the publisher see the publisher's website at <https://www.routledge.com/economics>.

Suggested Topics

The guest editorial team encourages the development of methodologically rigorous and theoretically grounded streams of research dealing with the general theme of 'Game theory applications in port and maritime studies'. Contributions may focus on the use of game theory to address issues of **cooperation, industrial organization, stochastic decisions and strategy and interaction mechanisms** among actors in the maritime and port sector.

More in particular, we invite papers on the following topics related to the general theme of edited book:

- Critical issues and decisions in the governance, ownership and operation of ports.
- Critical issues in cooperation and integration of ports with their hinterlands
- Strategy and policy in forming coalitions for investment or operation including port capacity and land management (such as concessions and leases).
- Fee, pricing, and performance strategies for ports and ocean carriers.
- Sustainability and productivity strategies in shipping, ports and terminals
- (National) security issues impacting goods movements of commodities.
- Risk management issues in maritime transport and port operation.

- Monopolistic or oligopolistic behavior by ocean carriers or ports and terminals including the impact of horizontal integration strategies (M&A, alliances, etc.).
- Agency relationships between supply chain players.

You are encouraged to contact the book editors if you believe you have an additional interpretation of interest related to the general theme of the book.

Information to Submit

The paper/chapter submission date for full consideration will be **March 31, 2017**. All submissions will be subject to a double-blind review process. Authors are invited to follow the author guidelines specified by the publisher: <https://www.routledge.com/resources/authors>. Submit papers in Word or Latex format, but not mixed. The target publishing date is **December 2017**. Interested authors can learn more by e-mailing the guest editors at Bruce Hartman: bruce@ahartman.net
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About the book editors

Bruce Hartman was magna cum laude in mathematics under W. Feller at Princeton. He obtained his PhD in Operations Research at University of Arizona's nationally ranked MIS program. He has been professor at Arizona, California State University Maritime, and University of St. Francis. Scholarly interests include mathematical and game theory applications to supply chains and economics. He has published in *Management Science*, *Naval Research Logistics*, *Games and Economic Behavior*, and co-edited an *IIE Transactions* special issue on cooperative game theory. He authors the blog *Supply Chain Logistics*. Industry experience includes Chief Information Officer for IT firms in Silicon Valley and in mining, and starting small businesses.

Theo Notteboom is Research Professor at the China Institute of FTZ Supply Chain at Shanghai Maritime University. He holds the Chair Professorship 'Port of Ghent' at Ghent University in Belgium. He also is part-time professor at University of Antwerp and the Antwerp Maritime Academy in Belgium. He previously was a professor at Dalian Maritime University in China and visiting professor at Nanyang Technological University in Singapore. In 2015, the Chinese State Administration of Foreign Experts Affairs (SAFEA) awarded him the status of High-End Foreign Expert. He is immediate past President and Council Member of International Association of Maritime Economists (IAME). Theo Notteboom published widely on port and maritime economics and management and is editor or a member of the editorial boards of a large number of academic journals in the field. He is co-director of Porteconomics.eu, a knowledge dissemination platform on port studies.