

DONALD M. TOPKIS

SUPERMODULARITY
AND
COMPLEMENTARITY

Supermodularity And Complementarity

Rabah Amir



Supermodularity And Complementarity:

Supermodularity and Complementarity Donald M. Topkis, 1998-05-03 This is a compact presentation of a large body of research that has been published over the last several decades. The material is almost entirely self-contained so that a reader with the proper mathematical background can have access to virtually all of the technical results in this field in a compact and organized framework.

Supermodularity and Complementarity Donald M. Topkis, 2011-02-11 The economics literature is replete with examples of monotone comparative statics that is scenarios where optimal decisions or equilibria in a parameterized collection of models vary monotonically with the parameter. Most of these examples are manifestations of complementarity with a common explicit or implicit theoretical basis in properties of a supermodular function on a lattice. Supermodular functions yield a characterization for complementarity and extend the notion of complementarity to a general setting that is a natural mathematical context for studying complementarity and monotone comparative statics. Concepts and results related to supermodularity and monotone comparative statics constitute a new and important formal step in the long line of economics literature on complementarity. This monograph links complementarity to powerful concepts and results involving supermodular functions on lattices and focuses on analyses and issues related to monotone comparative statics. Don Topkis who is known for his seminal contributions to this area here presents a self-contained and up-to-date view of this field including many new results to scholars interested in economic theory and its applications as well as to those in related disciplines. The emphasis is on methodology. The book systematically develops a comprehensive integrated theory pertaining to supermodularity, complementarity, and monotone comparative statics. It then applies that theory in the analysis of many diverse economic models formulated as decision problems, noncooperative games, and cooperative games.

Supermodularity and Complementarity in Economics Rabah Amir, 2007 The literature on supermodular optimization and games is surveyed from the perspective of potential users in economics. This methodology provides a new approach for comparative statics based only on critical assumptions and allows a general analysis of games with strategic complementarities. The results are presented in a simplified yet rigorous manner without reference to lattice theory for the special case of one-dimensional parameter and actions sets with the emphasis being on wide accessibility. Detailed applications are presented for well-known models of consumer behavior, monopoly, pass-through, Bertrand and Cournot competition, strategic R & D, search, and matching. Wherever appropriate, useful tricks for applications and comparative comments are inserted.

Special Issue: Supermodularity and Complementarity in Economic Theory Rabah Amir, 2019

Cooperative and Graph Signal Processing Petar Djuric, Cédric Richard, 2018-07-04 Cooperative and Graph Signal Processing: Principles and Applications presents the fundamentals of signal processing over networks and the latest advances in graph signal processing. A range of key concepts are clearly explained, including learning, adaptation, optimization, control, inference, and machine learning. Building on the principles of these areas, the book then shows how they are relevant

to understanding distributed communication networking and sensing and social networks Finally the book shows how the principles are applied to a range of applications such as Big data Media and video Smart grids Internet of Things Wireless health and Neuroscience With this book readers will learn the basics of adaptation and learning in networks the essentials of detection estimation and filtering Bayesian inference in networks optimization and control machine learning signal processing on graphs signal processing for distributed communication social networks from the perspective of flow of information and how to apply signal processing methods in distributed settings Presents the first book on cooperative signal processing and graph signal processing Provides a range of applications and application areas that are thoroughly covered Includes an editor in chief and associate editor from the IEEE Transactions on Signal Processing and Information Processing over Networks who have recruited top contributors for the book Design Rules, Volume 2 Carliss Y. Baldwin, 2024-12-24 How the innate physical properties of different technologies influence the strategy and structure of the organizations implementing the technologies the sequel to Design Rules The Power of Modularity In Design Rules volume 2 Carliss Baldwin offers a comprehensive view of the digital economy by putting forth an original theory that explains how technology shapes organizations in a market economy The theory claims that complementarities arising from the physical nature of technologies can be arrayed on a spectrum ranging from strong to very weak Two basic types of technologies in turn exhibit different degrees of complementarity between their internal components Flow production technologies which are found in steel mills and auto factories specify a series of steps each of which is essential to the final product In contrast platform technologies which are characteristic of computer hardware software and networks are modular systems designed to provide options Baldwin then investigates the dynamics of strategy for firms in platform ecosystems Such firms create value by solving technical bottlenecks technical barriers to performance that arise in different parts of the system as it evolves They capture value by controlling and defending strategic bottlenecks components that are 1 essential to the functioning of some part of the system 2 unique and 3 controlled by a profit seeking enterprise Strategic bottlenecks can be acquired by solving technical bottlenecks They can be destroyed via tactics such as substitution reverse engineering bypassing the bottleneck and enveloping a smaller bottleneck within a larger one Strategy in platform ecosystems can thus be viewed as the effective management of technical and strategic bottlenecks within a modular technical system Oligopoly Pricing Xavier Vives, 1999 Applies a modern game theoretic approach to develop a theory of oligopoly pricing The text relates classic contributions to the field of modern game theory and discusses basic game theoretic tools and equilibrium paying particular attention to developments in the theory of supermodular games **Experimental Business Research** Amnon Rapoport, Rami Zwick, 2005-10-20 Volume II III of Experimental Business Research include original papers that were presented at the Second Asian Conference on Experimental Business Research held at the Hong Kong University of Science and Technology HKUST on December 16 19 2003 The conference was organized by the Center for Experimental Business

Research cEBR at HKUST and was chaired by Professors Amnon Rapoport and Rami Zwick Experimental Business Research adopts laboratory based experimental economics methods to study an array of business and policy issues spanning the entire business domain including accounting economics finance information systems marketing and management and policy Experimental economics is an established term that refers to the use of controlled laboratory based procedures to test the implications of economic hypotheses and models and discover replicable patterns of economic behavior We have coined the term Experimental Business Research in order to broaden the scope of experimental economics to encompass experimental finance experimental accounting and more generally the use of laboratory based procedures to test hypotheses and models arising from research in other business related areas including information systems marketing and management and policy The chapters included in these volumes reflect the domain diversity of studies in the experimental business research field

Wireless Sensor Networks Ananthram Swami, Qing Zhao, Yao-Win Hong, Lang Tong, 2007-10-24 A wireless sensor network WSN uses a number of autonomous devices to cooperatively monitor physical or environmental conditions via a wireless network Since its military beginnings as a means of battlefield surveillance practical use of this technology has extended to a range of civilian applications including environmental monitoring natural disaster prediction and relief health monitoring and fire detection Technological advancements coupled with lowering costs suggest that wireless sensor networks will have a significant impact on 21st century life The design of wireless sensor networks requires consideration for several disciplines such as distributed signal processing communications and cross layer design Wireless Sensor Networks Signal Processing and Communications focuses on the theoretical aspects of wireless sensor networks and offers readers signal processing and communication perspectives on the design of large scale networks It explains state of the art design theories and techniques to readers and places emphasis on the fundamental properties of large scale sensor networks Wireless Sensor Networks Signal Processing and Communications Approaches WSNs from a new angle distributed signal processing communication algorithms and novel cross layer design paradigms Applies ideas and illustrations from classical theory to an emerging field of WSN applications Presents important analytical tools for use in the design of application specific WSNs Wireless Sensor Networks will be of use to signal processing and communications researchers and practitioners in applying classical theory to network design It identifies research directions for senior undergraduate and graduate students and offers a rich bibliography for further reading and investigation *Advances in Mathematical Economics* Shigeo Kusuoka, Toru Maruyama, 2013-03-09 A lot of economic problems can be formulated as constrained optimizations and equilibration of their solutions Various mathematical theories have been supplying economists with indispensable machineries for these problems arising in economic theory Conversely mathematicians have been stimulated by various mathematical difficulties raised by economic theories The series is designed to bring together those mathematicians who were seriously interested in getting new challenging stimuli from economic theories with those

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