

DOI: <https://doi.org/10.32782/2524-0072/2022-41-40>

УДК 519.8

ЕКОНОМІЧНЕ МОДЕЛЮВАННЯ МІЖНАРОДНИХ КОНФЛІКТІВ

ECONOMIC MODELING OF INTERNATIONAL CONFLICT

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Всі економічні моделі мають певні спільні риси: мають передбачатися оптимізуючі рішення на рівні осіб, які приймають рішення, та результуюча рівновага внаслідок взаємодії всіх цих рішень на агрегованому рівні. Крім того, рішення мають підлягати деякому ресурсному обмеженню. Теорія конфлікту є не просто однією з гілок економічного аналізу чи набором схожих тем злочинності, трудових спорів, судочинства, а мікроекономічним підходом до досягнення односторонньої переваги замість взаємних переваг. Якщо теорія макроекономічного аналізу і теорія мікроекономічного аналізу передбачають звичайні процеси виробництва, за допомогою яких ресурсні входи перетворюються у бажані товари, то теорія конфлікту передбачає технологію протистояння і боротьби. У процесі конфлікту роль виходів виконують зусилля військових дій, які генерують виходи у формі кінцевого розподілу ресурсів і доходів між усіма сторонами.

Ключові слова: переваги, сприйняття, область потенційних раціональних врегулювань, виробнича функція Кобба – Дугласа, криві реакції за Курно.

All economic models have certain features in common: there must be optimizing decisions at the level of decision-makers and the resulting equilibrium due to the interaction of all these decisions at the aggregate level. In addition, decisions should be subject to some resource constraint. Conflict theory is not just one of the branches of economic analysis or a set of similar topics of crime, labor disputes, litigation, but a microeconomic approach to achieving unilateral advantage instead of mutual advantage. If the theory of macroeconomic analysis and the theory of microeconomic analysis involve the usual processes of production, through which resource inputs are transformed into desirable goods, the theory of conflict involves the technology of confrontation and struggle. In the process of conflict, the role of inputs is played by military efforts, which generate outputs in the form of the final distribution of resources and incomes among all parties. The shape of the settlement possibilities curve may indicate that these parties' opportunities are complementary and harmonious: both parties can gain by working together, and the largest aggregate outcome is achieved when the parties have approximately equal benefits. The negative slope of a party's indifference curve indicates the party's preferences for cooperation. The shape of the adjustment possibilities curve may indicate that these parties' possibilities are disharmonious, when roughly equal distributions of income yield less aggregate outcome than unequal distributions. Although ex-post transfers may divide the aggregate outcome more evenly, all such possibilities are accounted for by the shape of the settlement possibility curve. A positive slope of a party's indifference curve indicates this party's reluctance to cooperate. Both par-

Modeling International Conflict

Michael D Ward



Modeling International Conflict:

Modeling International Conflict Frank C. Zagare, 1990 First Published in 1990 Routledge is an imprint of Taylor Francis an informa company *Militarized Conflict Modeling Using Computational Intelligence* Tshilidzi Marwala, Monica Lagazio, 2011-08-24 Militarized Conflict Modeling Using Computational Intelligence examines the application of computational intelligence methods to model conflict Traditionally conflict has been modeled using game theory The inherent limitation of game theory when dealing with more than three players in a game is the main motivation for the application of computational intelligence in modeling conflict Militarized interstate disputes MIDs are defined as a set of interactions between or among states that can result in the display threat or actual use of military force in an explicit way These interactions can result in either peace or conflict This book models the relationship between key variables and the risk of conflict between two countries The variables include Allies which measures the presence or absence of military alliance Contiguity which measures whether the countries share a common boundary or not and Major Power which measures whether either or both states are a major power Militarized Conflict Modeling Using Computational Intelligence implements various multi layer perception neural networks Bayesian networks support vector machines neuro fuzzy models rough sets models neuro rough sets models and optimized rough sets models to create models that estimate the risk of conflict given the variables Secondly these models are used to study the sensitivity of each variable to conflict Furthermore a framework on how these models can be used to control the possibility of peace is proposed Finally new and emerging topics on modelling conflict are identified and further work is proposed **International Conflict Resolution Using System Engineering (SWIIS)** H. Chestnut, T. Vamos, Peter Kopacek, 2014-07-04 Finding an alternative to supplement military ways of resolving international conflicts has been taken up by many people skilled in various areas such as political science economics social studies modelling and simulation artificial intelligence and expert systems military strategy and weaponry as well as private business and industry The Workshop will therefore be of use as it looks at various control methods which would create a conciliatory social and political environment or climate for seeking and obtaining non military solutions to international conflicts and to solutions to national conflicts which may lead to international conflicts *Contributions of Technology to International Conflict Resolution* H. Chestnut, 2014-06-28 This book investigates technology s potential for stimulating and strengthening approaches that can lead to the peaceful solution of international conflicts It discusses the causes of war the political and social implications of neighbourhood and international involvement and evaluates various aid programmes Models are applied to methods of mediation and simulating power distribution and decision making to show how modern technology can be used to promote resolution in the event of conflict **Estimation and Strategic Interaction in Discrete Choice Models of International Conflict** Curtis S. Signorino, 1998 **Handbook of Game Theory with Economic Applications** R.J. Aumann, S. Hart, 1992 This is the second of three volumes surveying the state of the art in

Game Theory and its applications to many and varied fields in particular to economics The chapters in the present volume are contributed by outstanding authorities and provide comprehensive coverage and precise statements of the main results in each area The applications include empirical evidence The following topics are covered communication and correlated equilibria coalitional games and coalition structures utility and subjective probability common knowledge bargaining zero sum games differential games and applications of game theory to signalling moral hazard search evolutionary biology international relations voting procedures social choice public economics politics and cost allocation This handbook will be of interest to scholars in economics political science psychology mathematics and biology For more information on the Handbooks in Economics series please see our home page on <http://www.elsevier.nl/locate/hes> [The Social Psychology of Intergroup and International Conflict Resolution](#) Ronald J. Fisher, 2012-12-06 **Integrated Global Models of**

Sustainable Development - Volume I Akira Onishi, 2009-08-18 Integrated Global Models of Sustainable Development is a component of Encyclopedia of Technology Information and Systems Management Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias In the 21st century the human society is facing the challenge of sustainable development with constraints of global environmental changes In order to cope with poverty and international per capita income disparity IPCID there should be further needs for economic development to provide employment opportunities against Terrorism and refugees The coverage in three volumes tries to show a possibility of sustainable development from a global viewpoint by using alternative policy simulations The chapters are organized so that the readers might understand archived historical trends in global modeling for sustainable development Starting from global models in the 1970s 1980s 1990s the updated latest modeling works are also included as far as possible The chapters deal with roles of integrated global models scope and methodologies and policy implications These three volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs **Intermediaries in International Conflict**

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questions relating to issues which engage international relations scholars today The chapters focus on a variety of pertinent topics and include discussions of important innovations in our ability to analyze conflict such as the introduction of the Militarized Interstate Dispute MID data International Conflict Resolution 2nd Ed. Charles Hauss,2010-04-01 Using a broad range of case studies this book examines conflict and the international relations facing the world today

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