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A. I. Subbotin

# Game-Theoretical Control Problems

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# Game Theoretical Control Problems

**Kofi Kissi Dompere**



## **Game Theoretical Control Problems:**

**Game-Theoretical Control Problems** N.N. Krasovskii,A.I. Subbotin,1987-12-16 This book is devoted to an investigation of control problems which can be described by ordinary differential equations and be expressed in terms of game theoretical notions In these terms a strategy is a control based on the feedback principle which will assure a definite equality for the controlled process which is subject to uncertain factors such as a move or a controlling action of the opponent Game Theoretical Control Problems contains definitions and formalizations of differential games existence for equilibrium and extensive discussions of optimal strategies Formal definitions and statements are accompanied by suitable motivations and discussions of computational algorithms The book is addressed to mathematicians engineers economists and other users of control theoretical and game theoretical notions *Game-Theoretical Control Problems* N.N. Krasovskii,A.I.

Subbotin,2011-09-17 This book is devoted to an investigation of control problems which can be described by ordinary differential equations and be expressed in terms of game theoretical notions In these terms a strategy is a control based on the feedback principle which will assure a definite equality for the controlled process which is subject to uncertain factors such as a move or a controlling action of the opponent Game Theoretical Control Problems contains definitions and formalizations of differential games existence for equilibrium and extensive discussions of optimal strategies Formal definitions and statements are accompanied by suitable motivations and discussions of computational algorithms The book is addressed to mathematicians engineers economists and other users of control theoretical and game theoretical notions

Theory of Philosophical Consciencism Dompere, Kofi Kissi,2017-09-24 In the Theory of Philosophical Consciencism Professor Dompere establishes how Nkrumah used the theory of categorical conversion housing the necessary conditions of transformation to design strategies for creating the sufficient conditions for socio political transformations The theory of Philosophical Consciencism is about the institutionally destruction creation process for socio political transformation The theory shows the scientific contributions of Nkrumah s thinking to the solution of the transformation problem in science and its application to social systemcity where Nkrumah s analytical weapons were drawn from African conceptual system The theory is developed as logico mathematical foundations that guide the internal management of the command control decision choice systems for creative destruction of socio political varieties in transformations through the development of qualitative mathematics making possible the construct of qualitative equations of motion for connecting varieties in qualitative transfers The qualitative equations of motion through the Philosophical Consciencism constitute the sufficient conditions for transformations The theory links rationality intentionality experiential information structure defective deceptive information structures in the control dynamic games of power and dominance by the duals and poles under the principle of opposites with relational continua and unity relative to decision choice systems that induce negation negation transformations where paths are established by the history of success failure outcomes in the socially control dynamic zero sum games between the

duals in any duality and between the poles of any actual potential polarity The main premise of the monograph is that there exists a set of sufficient conditions in support of the necessary conditions for internal transformation of socio natural varieties The theory is useful in understanding developmental processes and multi polar power zero sum games for global dominance The necessary conditions constitute the natural necessity that constrains cognitive freedom The sufficient conditions constitute cognitive freedom that must overcome the necessity in socio natural systems dynamics Had this conceptual system been familiar to African leaders the African transformation from colonialism to complete emancipation rather than neocolonialism would have been increasingly successful This holds for those seeking triumph over injustices oppression imperialism and social change in all systems

**Organization Paremiology** Kofi Kissi Dompere, 2017-02-17 In the Theory of Philosophical Consciencism Professor Dompere establishes how Nkrumah used the theory of categorial conversion housing the necessary conditions of transformation to design strategies for creating the sufficient conditions for socio political transformations The theory of Philosophical Consciencism is about the institutionally destruction creation process for socio political transformation The theory shows the scientific contributions of Nkrumah's thinking to the solution of the transformation problem in science and its application to social systemicity where Nkrumah's analytical weapons were drawn from African conceptual system The theory is developed as logico mathematical foundations that guide the internal management of the command control decision choice systems for creative destruction of socio political varieties in transformations through the development of qualitative mathematics making possible the construct of qualitative equations of motion for connecting varieties in qualitative transfers The qualitative equations of motion through the Philosophical Consciencism constitute the sufficient conditions for transformations The theory links rationality intentionality experiential information structure defective deceptive information structures in the control dynamic games of power and dominance by the duals and poles under the principle of opposites with relational continua and unity relative to decision choice systems that induce negation negation transformations where paths are established by the history of success failure outcomes in the socially control dynamic zero sum games between the duals in any duality and between the poles of any actual potential polarity The main premise of the monograph is that there exists a set of sufficient conditions in support of the necessary conditions for internal transformation of socio natural varieties The theory is useful in understanding developmental processes and multi polar power zero sum games for global dominance The necessary conditions constitute the natural necessity that constrains cognitive freedom The sufficient conditions constitute cognitive freedom that must overcome the necessity in socio natural systems dynamics Had this conceptual system been familiar to African leaders the African transformation from colonialism to complete emancipation rather than neocolonialism would have been increasingly successful This holds for those seeking triumph over injustices oppression imperialism and social change in all systems

**The Theory of Categorial Conversion** Dompere, Kofi Kissi, 2017-09-17 The Theory of Categorial Conversion is

advanced by Professor Kofi Kissi Dompere as mathematical philosophical and game theoretic foundations to solve the problem of socio natural transformation as governed by some internal process in relation to Marx Schumpeter and Nkrumah Dompere s methodology is based on the Africentric principles of opposites made up of actual potential polarity negative positive duality with relational continuum and unity under cost benefit rationality and Asantrofi Anoma principle supported by fuzzy paradigm of thought Socio natural transformations are seen in terms of game theories in a fuzzy stochastic space admitting of defective deceptive information structures in quality quantity space within the subjective objective duality The main premise of the monograph is that there exists a set of necessary and sufficient conditions for internal self transformation The necessary conditions are made up of categorial moments and categorial transfer functions forming the domain of control instrumentation in creating the sufficient conditions for categorial conversion processes Dompere presents an important methodological framework for the study and construction of the theories of socioeconomic development and political change as well as info dynamics connecting knowledge sciences innovation and engineering to the space of knowing under qualitative quantitative transformational dynamics with defective deceptive information structures in the games for power and dominance by duals and poles in conflicts The necessary conditions of socio natural transformation are internally derived based on the relational structure of matter energy information activities within the dynamics of qualitative dispositions of dualities of actual potential polarities The theory consists of category formation showing ontological epistemological categories and categorial dynamics shows elemental conversions of categorial varieties in a continuum The logical tools and the paradigm of thought for the theoretical development of Nkrumah s framework involve self excitement self correction and self control systems induced by internal contradictions The set of necessary conditions constitutes the natural necessity that constrains cognitive freedom in socio natural transformations Had this conceptual system been familiar to economists and social scientists the construct of the theories of socioeconomic development and transformations would have been increasingly successful

**Extensions and Relaxations** A.G. Chentsov, S.I. Morina, 2013-03-14 In this book a general topological construction of extension is proposed for problems of attainability in topological spaces under perturbation of a system of constraints This construction is realized in a special class of generalized elements defined as finitely additive measures A version of the method of programmed iterations is constructed This version realizes multi valued control quasistrategies which guarantees the solution of the control problem that consists in guidance to a given set under observation of phase constraints Audience The book will be of interest to researchers and graduate students in the field of optimal control mathematical systems theory measure and integration functional analysis and general topology

**Theories of Knowing and Knowledge Production** Kofi Kissi Dompere, 2024-09-26 The book is devoted to exploring the organizational dimensions of the general space of problem solution dualities within epistemic fields to examine the diversity and unity of knowing and information knowledge production in science and non science and how to account for and explain

the forces of variety transformations as induced by decision choice actions in creating the functor space and the space of categorial converters as well as to integrate decision choice qualities of curiosity creativity hope despair success failure and their relationships with epistemic anomalies in the production of intellectual investment flows and capital stocks and the rise and fall of institutions in response to the dynamics of the open space of problem solution dualities with open algorithms under the principle of non satiation The conditions and sources of uncertainties in human actions are traced though the space of ontic epistemic dualities as generated by cognitive capacity limitations leading to the concepts of imagination possibility and probability with corresponding worlds and then link to the discussions on thinking reasoning processes with goals objectives and visions of education in social set ups The concepts and phenomena of anticipation necessity expectation freedom anomaly curiosity creativity hope despair success and failure contained in the space of imaginations are defined under the concepts of onticity and epistemicity where their roles in the dualistic polar journeys are discussed analyzed and connected to epistemic transversality conditions under the principle of opposites relative to the conditions of input output and cost benefit dualities The book is to fill in some of the important phenomena needed in my investigation of theory of knowing as a production of intellectual investment flows and information knowledge accumulation as the production of intellectual capital stocks relative to the disequilibrium dynamics of human intellectual heritage based on fuzzy paradigm of thought thus providing an added foundation in integrating subjective elements into the development of open artificial intelligence where cost benefit values operate to determine varieties over the spaces of true false and yes no dualities in machine learning

*Differential Equations and Nonlinear Mechanics* Kuppalapalle Vajravelu, 2013-12-01 The International Conference on Differential Equations and Nonlinear Mechanics was hosted by the University of Central Florida in Orlando from March 17 19 1999 One of the conference days was dedicated to Professor V Lakshmikantham in th honor of his 75 birthday 50 well established professionals in differential equations nonlinear analysis numerical analysis and nonlinear mechanics attended the conference from 13 countries Twelve of the attendees delivered hour long invited talks and remaining thirty eight presented invited forty five minute talks In each of these talks the focus was on the recent developments in differential equations and nonlinear mechanics and their applications This book consists of 29 papers based on the invited lectures and I believe that it provides a good selection of advanced topics of current interest in differential equations and nonlinear mechanics I am indebted to the Department of Mathematics College of Arts and Sciences Department of Mechanical Materials and Aerospace Engineering and the Office of International Studies of the University of Central Florida for the financial support of the conference Also to the Mathematics Department of the University of Central Florida for providing secretarial and administrative assistance I would like to thank the members of the local organizing committee Jeanne Blank Jackie Callahan John Cannon Holly Carley Brad Pyle Pete Rautenstrauch and June Winger for their assistance Thanks are also due to the conference organizing committee F H Busse J R Cannon V Girault R H J Grimshaw P N

Kaloni V     **Handbook of Stochastic Analysis and Applications** D. Kannan,V. Lakshmikantham,2001-10-23 An introduction to general theories of stochastic processes and modern martingale theory The volume focuses on consistency stability and contractivity under geometric invariance in numerical analysis and discusses problems related to implementation simulation variable step size algorithms and random number generation     *New Trends in Dynamic Games and Applications* Jan G. Olsder,2012-12-06 The theory of dynamic games is very rich in nature and very much alive If the reader does not already agree with this statement I hope he she will surely do so after having consulted the contents of the current volume The activities which fall under the heading of dynamic games cannot easily be put into one scientific discipline On the theoretical side one deals with differential games difference games the underlying models are described by differential respec tively difference equations and games based on Markov chains with determin istic and stochastic games zero sum and nonzero sum games two player and many player games all under various forms of equilibria On the practical side one sees applications to economics stimulated by the recent Nobel prize for economics which went to three prominent scientists in game theory biology management science and engineering The contents of this volume are primarily based on selected presentations made at the Sixth International Symposium on Dynamic Games and Applica tions held in St Jovite Quebec Canada 13 15 July 1994 Every paper that appears in this volume has passed through a stringent reviewing process as is the case with publications for archival technical journals This conference as well as its predecessor which was held in Grimentz 1992 took place under the auspices of the International Society of Dynamic Games ISDG established in 1990 One of the activities of the ISDG is the publication of these Annals The contributions in this volume have been grouped around five themes     *New Trends in Nanotechnology and Fractional Calculus Applications* Dumitru Baleanu,Ziya B. Guvenc,J.A. Tenreiro Machado,2010-03-14 In recent years fractional calculus has played an important role in various fields such as mechanics electricity chemistry biology economics modeling identification control theory and signal processing The scope of this book is to present the state of the art in the study of fractional systems and the application of fractional differentiation Furthermore the manufacture of nanowires is important for the design of nanosensors and the development of high yield thin films is vital in procuring clean solar energy This wide range of applications is of interest to engineers physicists and mathematicians     *Viscosity Solutions and Applications* Martino Bardi,Michael G. Crandall,Lawrence C. Evans,Halil M. Soner,Panagiotis E. Souganidis,2006-11-13 The volume comprises five extended surveys on the recent theory of viscosity solutions of fully nonlinear partial differential equations and some of its most relevant applications to optimal control theory for deterministic and stochastic systems front propagation geometric motions and mathematical finance The volume forms a state of the art reference on the subject of viscosity solutions and the authors are among the most prominent specialists Potential readers are researchers in nonlinear PDE s systems theory stochastic processes     **Advances in Dynamic Game Theory** Steffen Jorgensen,Marc Quincampoix,Thomas L. Vincent,2007-11-15 This collection of selected contributions gives

an account of recent developments in dynamic game theory and its applications covering both theoretical advances and new applications of dynamic games in such areas as pursuit evasion games ecology and economics Written by experts in their respective disciplines the chapters include stochastic and differential games dynamic games and their applications in various areas such as ecology and economics pursuit evasion games and evolutionary game theory and applications The work will serve as a state of the art account of recent advances in dynamic game theory and its applications for researchers practitioners and advanced students in applied mathematics mathematical finance and engineering

Constantin Caratheodory: An International Tribute (In 2 Volumes) Themistocles M Rassias, 1991-06-03 The object of these 2 volumes of collected papers is to provide insight and perspective on various research problems and theories in modern topics of Calculus of Variations Complex Analysis Real Analysis Differential Equations Geometry and their Applications related to the work of Constantin Carath odory This work will be of interest both to researchers following the development of new results and to people seeking an introduction in these fields

*Advances in Dynamic and Evolutionary Games* Frank Thuijsman, Florian Wagener, 2016-04-07 This contributed volume considers recent advances in dynamic games and their applications based on presentations given at the 16th Symposium of the International Society of Dynamic Games held July 9 12 2014 in Amsterdam Written by experts in their respective disciplines these papers cover various aspects of dynamic game theory including differential games evolutionary games and stochastic games They discuss theoretical developments algorithmic methods issues relating to lack of information and applications in areas such as biological or economical competition stability in communication networks and maintenance decisions in an electricity market just to name a few *Advances in Dynamic and Evolutionary Games* presents state of the art research in a wide spectrum of areas As such it serves as a testament to the vitality and growth of the field of dynamic games and their applications It will be of interest to an interdisciplinary audience of researchers practitioners and advanced graduate students

**Partial Stability and Control** V.I. Vorotnikov, 2012-12-06 Unlike the conventional research for the general theory of stability this monograph deals with problems on stability and stabilization of dynamic systems with respect not to all but just to a given part of the variables characterizing these systems Such problems are often referred to as the problems of partial stability stabilization They naturally arise in applications either from the requirement of proper performance of a system or in assessing system capability In addition a lot of actual or desired phenomena can be formulated in terms of these problems and be analyzed with these problems taken as the basis The following multispect phenomena and problems can be indicated Lotka Volterra ecological principle of extinction focusing and acceleration of particles in electromagnetic fields drift of the gyroscope axis stabilization of a spacecraft by specially arranged relative motion of rotors connected to it Also very effective is the approach to the problem of stability stabilization with respect to all the variables based on preliminary analysis of partial stability stabilization A M Lyapunov the founder of the modern theory of stability was the first to formulate the problem of partial stability Later works by V V



Rumyan tsev drew the attention of many mathematicians and mechanics around the world to this problem which resulted in its being intensively worked out The method of Lyapunov functions became the key investigative method which turned out to be very effective in analyzing both theoretic and applied problems      Information Processing John Cagnol, Jean-Paul Zolésio, 2005-04-07      **Approximation and Optimization of Discrete and Differential Inclusions** Elimhan N Mahmudov, 2011-08-25 Optimal control theory has numerous applications in both science and engineering This book presents basic concepts and principles of mathematical programming in terms of set valued analysis and develops a comprehensive optimality theory of problems described by ordinary and partial differential inclusions In addition to including well recognized results of variational analysis and optimization the book includes a number of new and important ones Includes practical examples      Mathematical Optimization Theory and Operations Research Michael Khachay, Yury Kochetov, Anton Ereemeev, Oleg Khamisov, Vladimir Mazalov, Panos Pardalos, 2023-06-25 This book constitutes the refereed proceedings of the 22nd International Conference on Mathematical Optimization Theory and Operations Research MOTOR 2023 held in Ekaterinburg Russia during July 2 8 2023 The 28 full papers and 1 short paper included in this book were carefully reviewed and selected from 89 submissions They were organized in topical sections as follows Mathematical programming and applications discrete and combinatorial optimization stochastic optimization scheduling game theory and optimal control and mathematical economics The book also contains one invited talk in full paper length      Advances in Dynamic Games Vlastimil Křivan, Georges Zaccour, 2013-11-23 This contributed volume focuses on aspects of dynamic game theory including differential games evolutionary games and stochastic games It covers theoretical developments algorithmic methods and applications to fields as varied as mathematical biology environmental management economics engineering guidance and control and social interaction It will be of interest to an interdisciplinary audience of researchers practitioners and advanced graduate students Advances in Dynamic Games presents state of the art research that serves as a testament to the vitality and growth of the field of dynamic games and their applications Its contributions written by experts in their respective disciplines are outgrowths of presentations originally given at the 15th International Symposium of Dynamic Games and Applications held July 19 22 2012 in Brno Czech Republic

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