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## CATALOGUE 2016

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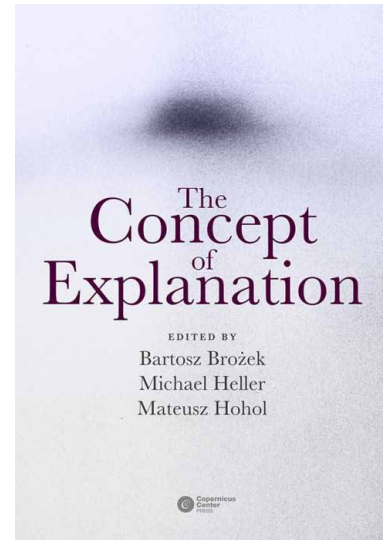
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new

**Edited by Bartosz Brożek, Michael Heller, Mateusz Hohol**  
**THE CONCEPT OF EXPLANATION**

A collection of essays devoted to the problem of explanation in various disciplines of science and humanities namely mathematics, physics, chemistry, biology, neuroscience, economics as well as theology. The issues covered include such topics as the interplay between explanation and understanding, the problem of a priori explanation, the limits of causal explanations in physics, the application of mathematics in biology, the relationship between proof and explanation in mathematics, and the use of mechanistic framework in neuroscience viewed from the perspective of philosophy of science. Moreover, various methodological controversies related to science and humanities are considered.

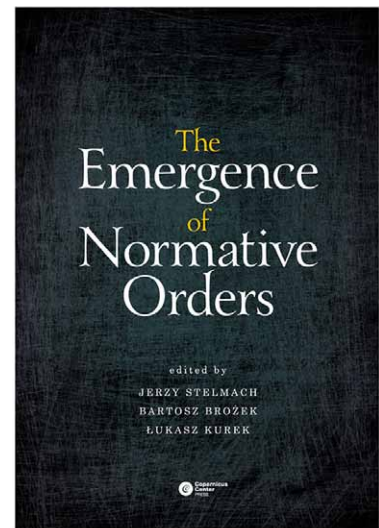


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new

**Edited by Jerzy Stelmach, Bartosz Brożek, Łukasz Kurek**  
**THE EMERGENCE OF NORMATIVE ORDERS**

A collection of essays assessing the origins of various rule-based systems including, but not limited to, morality, rationality and justice from the perspectives of both philosophy and psychology. The Reader will learn about diverse cognitive and neurocognitive phenomena responsible for the emergence of these normative orders such as imitation, time preferences and the dual-processing mind. Furthermore, the contributions include different philosophical insights into the genealogy of norms.

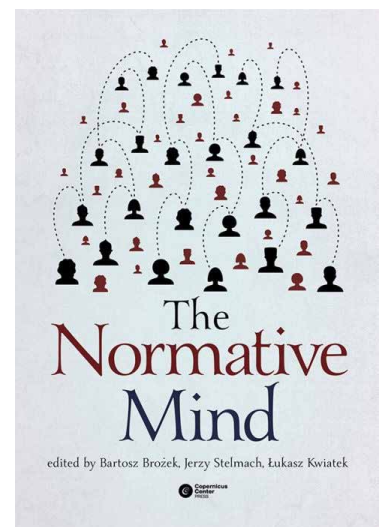


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new

**Edited by Bartosz Brożek, Jerzy Stelmach, Łukasz Kwiatek**  
**THE NORMATIVE MIND**

A collection of essays dealing with issues connected with rule-following and decision-making from the perspectives of philosophy and various sciences. The Reader will learn about the diverse relations to rule-following behaviour of such phenomena as cognitive control, emotions, decision-making heuristics and creativity. The contributions also concern the problem of normativity as it is present in logic, moral epistemology and rational choice theory. Furthermore, the roles of evolution and of neural processes for the emergence of rule-following behaviour are analyzed.

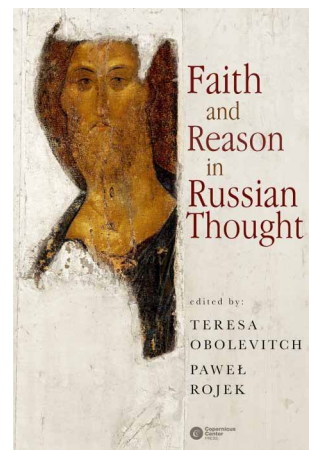


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**Edited by Teresa Obolevitch, Paweł Rojek**  
**FAITH AND REASON IN RUSSIAN THOUGHT**

In Russian culture there was neither Scholasticism nor Renaissance, and the problem of faith and reason was formulated most of all on the ground of Patristic tradition. This collection of essays explores various dimensions of this alternative Russian account. It shows peculiarities of Orthodox interpretation of faith, traces the interrelations between Eastern and Western thinkers, and investigates the heritage of Russian religious philosophy, with a special attention to Pavel Florensky, Sergius Bulgakov and Georges Florovsky.

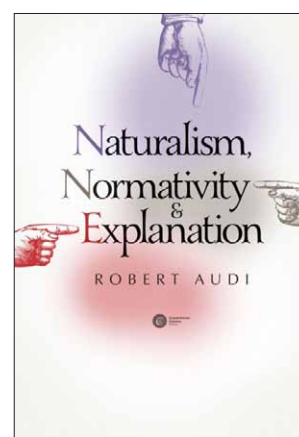
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**Robert Audi**  
**NATURALISM, NORMATIVITY AND EXPLANATION**

This book critically examines philosophical naturalism, evaluates the prospects for naturalizing such normative properties as being a reason, and proposes a theory of action-explanation. This theory accommodates an explanatory role for both psychological properties such as intention and normative properties such as having an obligation or being intrinsically good. This overall project requires distinguishing philosophical from methodological naturalism, arguing for the possibility of a scientifically informed epistemology that is not committed to the former, and freeing the theory of action-explanation from dependence on the reducibility of the mental to the physical. The project also requires distinguishing explanatory power from causal power.

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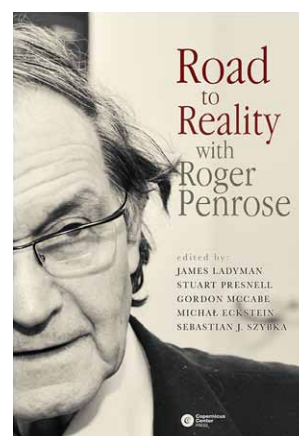


**Edited by James Ladyman, Stuart Presnell, Gordon McCabe, Michał Eckstein, Sebastian J. Szybka**  
**ROAD TO REALITY WITH ROGER PENROSE**

Where does the road to reality lie? This fundamental question is addressed in this collection of essays by physicists and philosophers, inspired by the original ideas of Sir Roger Penrose.

The topics range from black holes and quantum information to the very nature of mathematical cognition itself.

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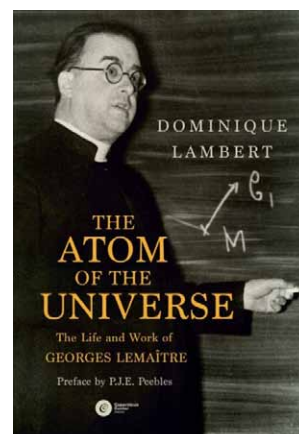


**Dominique Lambert**  
**THE ATOM OF THE UNIVERSE**  
**The Life and Work of Georges Lemaître**

**Preface by P.J.E. Peebles**

English translation of the first scientific biography of Georges Lemaître, a Belgian priest, astronomer and physicist born in 1894. Lemaître made substantial contribution to the influential theory of the origin of the Universe called the Big Bang theory which he described as "the hypothesis of the primeval atom". The Author, Professor Dominique Lambert (University of Namur, Belgium), is a renowned expert in the field of theoretical physics and philosophy of science.

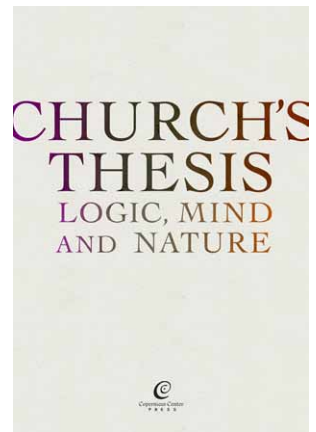
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**Edited by Adam Olszewski, Bartosz Brożek, Piotr Urbańczyk**  
**CHURCH'S THESIS**  
**Logic, Mind and Nature**

A collection of essays dealing with issues connected with Church's Thesis from both the philosophical and logical perspectives. The Reader will learn about the problems present in the theory of computability, with a particular emphasis being placed on the role of Church's Thesis and the various attempts at its proving it. The contributions also concern the intuitive notion of computable functions, the general issue of proving theses, hypercomputation, pseudorecursiveness and the computational modeling of cognition. Moreover, some of them utilize formal means such as the first order theory of hereditarily finite sets or the procedural theory of concepts.

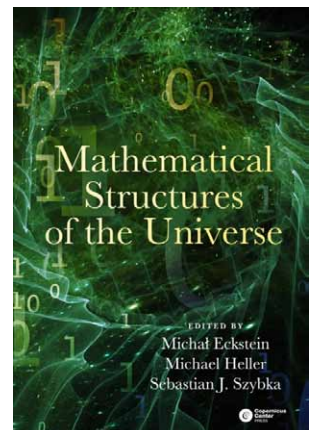
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**Edited by Michał Eckstein, Michał Heller, Sebastian J. Szybka**  
**MATHEMATICAL STRUCTURES OF THE UNIVERSE**

The book contains a collection of essays on mathematical structures that serve us to model the Universe. The authors discuss such topics as: the interplay between mathematics and physics, geometrical structures in physical models, observational and conceptual aspects of cosmology. The reader can also contemplate the scientific method on the verge of its limits

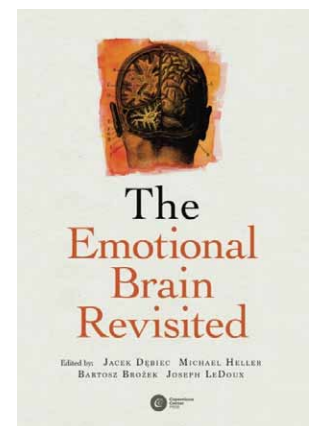
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**Edited by Jacek Dębiec, Michael Heller, Bartosz Brożek, Joseph LeDoux**  
**THE EMOTIONAL BRAIN REVISITED**

A collection of essays which tackles various issues at play in the current neuroscientific, psychological and philosophical research on emotions. The authors discuss such topics as the role of amygdala in the emergence of emotions, the place of the affect within the psychological construction of the agent, insights from the research on emotions in animals or the relation between emotions, rationality, morality, and law. Furthermore, various conceptual controversies underlying the empirical studies on emotions are considered.

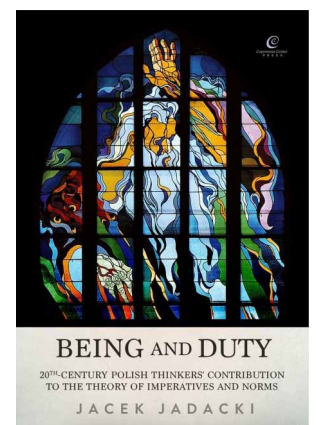
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**Jacek Jadacki**  
**BEING AND DUTY**  
**The Contribution of 20th-century Polish Thinkers to the Theory of Imperatives and Norms**

The book is comprised of three components. The first component analyses the creative contribution to the theory of imperatives and norms provided by 20th-century Polish researchers. The second component summarizes their reflections and considerations. The third component is an anthology of the classic writings of Polish authors of the time; it constitutes an illustration of the first part and indicates that their research covered practically the whole scope of this theory.

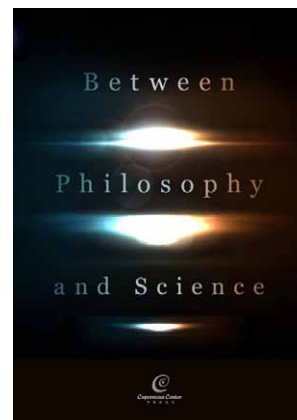
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**Edited by Michael Heller, Bartosz Brożek, Łukasz Kurek**  
**BETWEEN PHILOSOPHY AND SCIENCE**

A ground-breaking collection of essays which tackles the philosophical issues at play in cosmology, physics, mathematics and neuroscience. Considering topics such as the presence of ontology in cosmological theory and physics, it also weighs up the philosophical issues connected with mathematical method, the neuroscience of emotions and evolutionary anthropology. Contributions also feature on structuralism in the Platonic philosophy of science and the issue of knowledge and faith. A must for anyone interested in the philosophy of science and the increasingly blurred borders between the two.

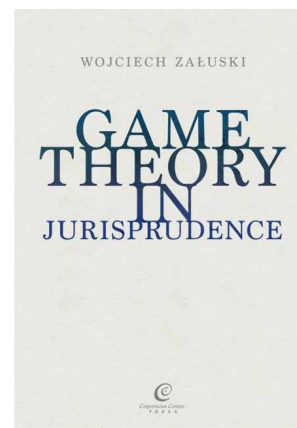
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**Wojciech Załuski**  
**GAME THEORY IN JURISPRUDENCE**

Game theory is a branch of mathematics which studies strategic interactions. Game theory has been successfully applied in many areas of both the natural and social sciences, and in the area of legal philosophy. In this book, Załuski analyzes such legal-philosophical concepts as legal interpretation, justice, legal rights, contract, tort and property law through the lens of game theory. Since the book does not assume any previous knowledge of game theory, appeals mainly to its conceptual rather than the technical side, and intertwines game-theoretical analysis with the philosophical, it will be accessible to a wider circle of readers interested in legal and moral philosophy.

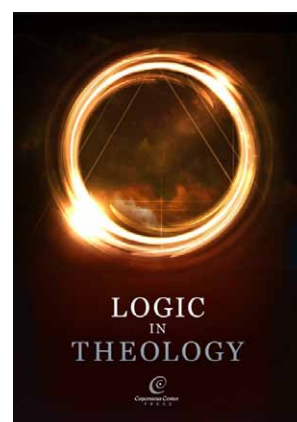
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**Edited by Bartosz Brożek, Adam Olszewski, Mateusz Hohol**  
**LOGIC IN THEOLOGY**

A collection of essays devoted to the peculiarities of theological language and logic. The issues covered include such topics as the logic of miracles, the problem of God's omniscience, the application of non-classical logics to theology and the relationships between science and theology, viewed from the perspective of logic.

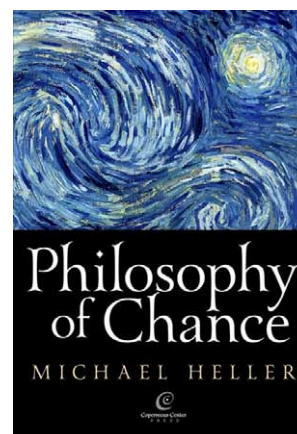
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**Michael Heller**  
**PHILOSOPHY OF CHANCE**  
**A Cosmic Fugue with a Prelude and a Coda**

A new book by the 2008 Templeton Prize laureate Michael Heller in which the problems of chance and probability are seen in light of the advancements of physics and biology. The Author's claim is that chance finds its place within the structure of the universe and cosmic evolution. Heller's insightful remarks may be considered a critique of both Dawkins' 'blind watchmaker' approach and Dembski's 'intelligent design' perspective.

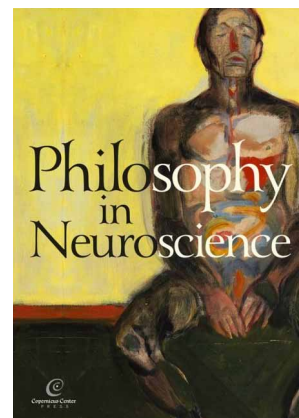
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**Edited by Jerzy Stelmach, Bartosz Brożek, Łukasz Kurek**  
**PHILOSOPHY IN NEUROSCIENCE**

A collection of essays dealing with the fundamental issues in neuroscience from methodological and philosophical perspectives. The Reader will learn about the methodological difficulties connected with the use of neuroscientific experiments in philosophical argumentation and about the nature of scientific explanation in neuroscience. In addition, the collection includes case studies of several issues lying at the intersection of neuroscience and philosophy such as: theory of mind, self-consciousness, self-deception, depression and morality.

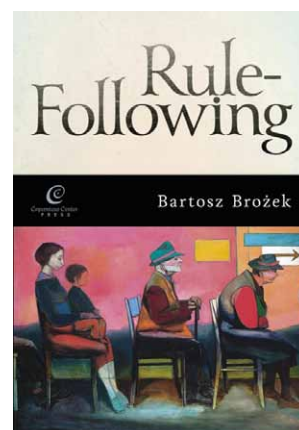
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**Bartosz Brożek**  
**RULE-FOLLOWING**  
**From Imitation to the Normative Mind**

The book attempts to decipher the practice of rule-following with the use of the tools offered both by contemporary philosophy and neuroscience. The Author claims – in the Wittgensteinian spirit – that rule-following cannot be thought of in terms of individual mental states only: in order to explain what rules are, one needs to consider rule-following to be a communal practice. This stance is supported by a number of evolutionary scenarios and neuroscientific theories. The monograph culminates in an explication of rule-following in language, morality and mathematics.

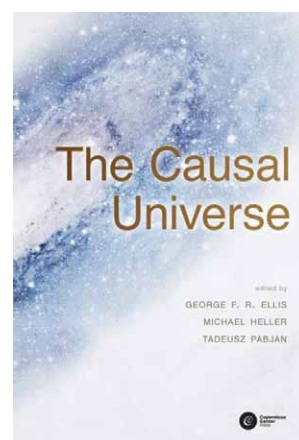
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**Edited by George F.R. Ellis, Michael Heller, Tadeusz Pabjan**  
**THE CAUSAL UNIVERSE**

A collection of essays dealing with causality, a core issue for both science and philosophy. The Reader will learn about different types of causality in complex systems and about new perspectives on this issue based on physical and cosmological considerations. In addition, the collection includes essays pertaining to the problem of causality in ancient Greek philosophy, and to the problem of God's relation to the causal structures of nature viewed in the light of contemporary physics and cosmology.

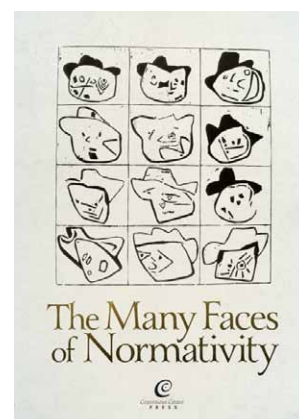
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**Edited by Jerzy Stelmach, Bartosz Brożek, Mateusz Hohol**  
**THE MANY FACES OF NORMATIVITY**

A collection of essays dealing with the issue of normativity from various academic and scientific perspectives. The Reader will learn how phenomena such as norms, morality and rule-following are described and explained in philosophy, biology, psychology, linguistics and neuroscience. In addition, a discussion of the naturalistic fallacy from the philosophical and ethical perspectives will be included.

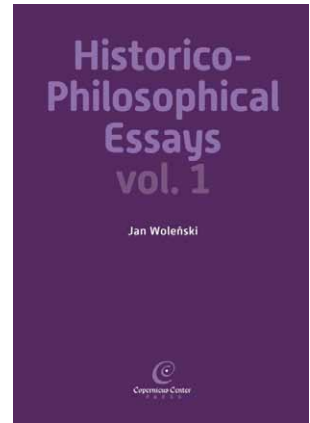
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**Jan Woleński**  
**HISTORICO-PHILOSOPHICAL ESSAYS. VOL. I**

The book comprises studies pertaining to the history of the philosophy of logic and mathematics, the Lvov-Warsaw School, epistemology, as well as some key events in the development of the analytic philosophy in the 20th Century.

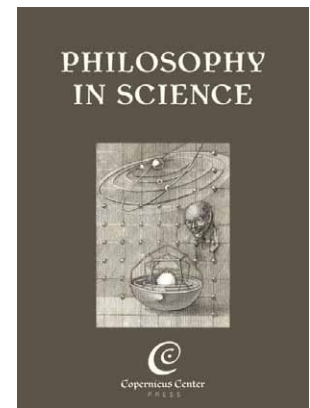
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**Edited by Bartosz Brożek, Janusz Mączka, Wojciech P. Grygiel**  
**PHILOSOPHY IN SCIENCE**  
**Methods and Applications**

Philosophy in science should be sharply distinguished from the philosophy of science. The latter offers a philosophical reflection on the method of science; the former, on the contrary, is expected to concentrate on the mutual influence between the philosophical ideas and scientific theories and practice. The papers collected in this volume explore both the methodological niveau of the philosophy in science and some particular philosophical issues intertwined with scientific theories. Only such a combination of two perspectives may provide a comprehensive picture of methods and applications characteristic of philosophy in science.

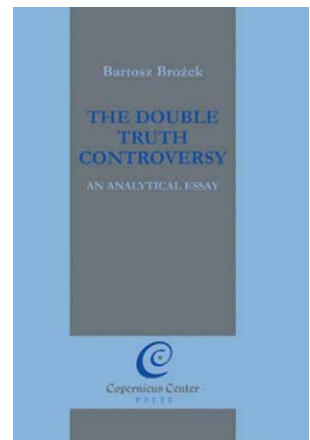
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**Bartosz Brożek**  
**THE DOUBLE TRUTH CONTROVERSY**  
**An Analytical Essay**

The principal source of the double truth controversy is the condemnation of 1277 issued by the bishop of Paris, Stephan Tempier. In the introduction to the document, Tempier condemns those philosophers who claim that there are things true according to the Catholic faith but false on the basis of natural reason. There is little doubt that Tempier thought of Siger of Brabant and Boethius of Dacia. There are several problems involved here. This book attempts to answer these questions via an exegesis of historical texts and by the application of some modern logical techniques to medieval theories.

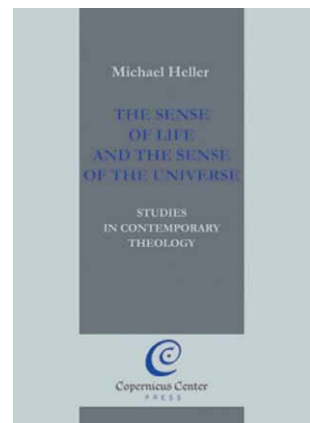
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**Michael Heller**  
**THE SENSE OF LIFE AND THE SENSE OF THE UNIVERSE**  
**Studies in the Contemporary Theology**

Questions concerning the sense of man and the sense of the universe are closely related. In fact, they constitute one Big Question. Man is genetically connected to the universe and the origins of man have their roots in the history of the universe. If the universe has sense then it most probably embraces man since he is a part or, even more, an element of the structure of the universe. Would it be possible for man to have a senseful existence in a senseless universe?

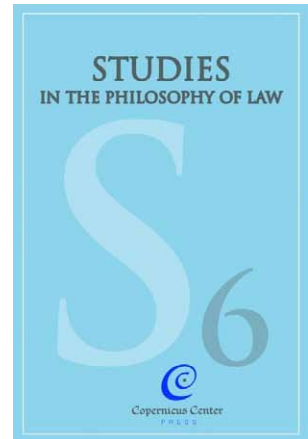
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**Edited by Jerzy Stelmach, Bartosz Brożek**  
**STUDIES IN THE PHILOSOPHY OF LAW VOL. 6**  
**The Normativity of Law**

The problem of legal normativity is one of the most controversial issues in the philosophy of law. It was already a subject of heated debate in the 19th century and, over the last one hundred years, the study of normativity has taken many shapes and forms: from Kelsen's dualism, through the reductionism proposed by legal realists, to some nihilistic stances. In recent years there has been a renewed interest in the problems surrounding the concept of law's normativity and this volume is seen as a contribution to that debate.

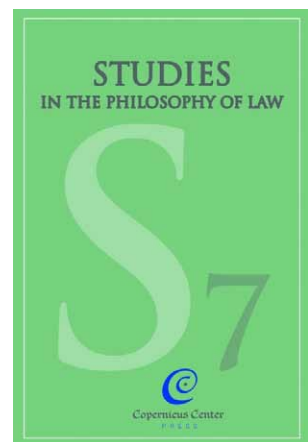
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**Edited by Jerzy Stelmach, Bartosz Brożek**  
**STUDIES IN THE PHILOSOPHY OF LAW VOL. 7**  
**Game Theory and the Law**

Game theory is a mathematical theory of strategic interactions between rational agents. It has been widely, and with much success, applied in various areas of social sciences, especially economics and sociology. However, it has been relatively rarely used in the analyses pursued within legal theory and legal dogmatics. The present volume is intended to fill in – at least to a certain extent – this gap: the general message of the most of the papers collected in it is that game theory can be a useful tool also for legal scholars. It contains, though, also two skeptical voices regarding the applicability of game theory in legal analysis.

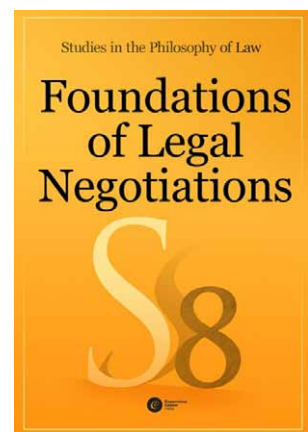
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**Edited by Jerzy Stelmach, Bartosz Brożek**  
**FOUNDATIONS OF LEGAL NEGOTIATIONS**  
**Studies in the Philosophy of Law vol. 8**

A collection of essays from the leading scholars in the field dealing with various dimensions of legal negotiations. The contributions concern the logical structure of legal negotiations, as well as the possible philosophical assumptions behind the process of negotiating. The collection covers also the problem of the economic mechanisms and the psychological underpinnings of negotiation in the shadow of the law. The essays address both conceptual and practical issues.

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