

Perspectives On Scientific Argumentation Theory Practice And Research

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This book attempts to consolidate contemporary thinking and research on the role of scientific argumentation in education. Perspectives on Scientific Argumentation brings together prominent scholars in the field to share the sum of their knowledge about the place of scientific argumentation in teaching and learning. Chapters explore scientific argumentation as a means of addressing and solving problems in conceptual change, reasoning, knowledge-building and the promotion of scientific literacy.

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Argumentation theory, or argumentation, is the interdisciplinary study of how conclusions can be reached through logical reasoning; that is, claims based, soundly or not, on premises.It includes the arts and sciences of civil debate, dialogue, conversation, and persuasion.It studies rules of inference, logic, and procedural rules in both artificial and real world settings.

[Argumentation theory - Wikipedia](#)

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Argumentation is a vital factor for communication and it endured in our society for centuries. This theory had its origin in foundationalism, a theory of justification or reasoning in the field of philosophy. But during those days the argumentation was based on oration and logic.

[Argumentation Theory](#)

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Theory and perspective are two terms we come across in research studies. A theory is basically a set of principles or ideas that explain something, whereas perspective is the way a person looks at things. While most people generally believe scientifically acceptable theories as true, perspectives differ from person to person. Key Areas Covered. 1.

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In Toulmin's method, every argument begins with three fundamental parts: the claim, the grounds, and the warrant. A claim is the assertion that authors would like to prove to their audience. It is, in other words, the main argument. The grounds of an argument are the evidence and facts that help support the claim.

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One of these newcomers was the scientific management theory, the theory of Frederic Winslow Tylor (1896-1915). This paper is a critical review on scientific management theory looking from the ...

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Abstract. The aim of this contribution is to illustrate how the pragma-dialectical model of critical discussion may be explained and studied with the jurors' deliberations in the film 12 Angry Men.The film itself may be understood as an argument by example, and to defend this idea we take into consideration the thesis that the filmmaker wants to establish, the constraints of the medium, and ...

[Teaching Argumentation Theory and Practice: The Case of 12 ...](#)

Postmodern Perspective Postmodernism diverges from the other two perspectives in its unwillingness to seek Truth or to make permanent ontological or epistemological commitments such as those that give rise to modernist forms of scientific endeavor or to symbolic-interpretive descriptions of meaning and human meaning making activity.

[Three Perspectives Of Organizational Theory Management Essay](#)

Skepticism (American and Canadian English) or scepticism (British, Irish, and Australian English) is generally a questioning attitude or doubt towards one or more putative instances of knowledge which are asserted to be mere belief or dogma. Formally, skepticism is a topic of interest in philosophy, particularly epistemology.More informally, skepticism as an expression of questioning or doubt ...

Argumentation—arriving at conclusions on a topic through a process of logical reasoning that includes debate and persuasion— has in recent years emerged as a central topic of discussion among science educators and researchers. There is now a firm and general belief that fostering argumentation in learning activities can develop students' critical thinking and reasoning skills, and that dialogic and collaborative inquiries are key precursors to an engagement in scientific argumentation. It is also reckoned that argumentation helps students assimilate knowledge and generate complex meaning. The consensus among educators is that involving students in scientific argumentation must play a critical role in the education process itself. Recent analysis of research trends in science education indicates that argumentation is now the most prevalent research topic in the literature. This book attempts to consolidate contemporary thinking and research on the role of scientific argumentation in education. Perspectives on Scientific Argumentation brings together prominent scholars in the field to share the sum of their knowledge about the place of scientific argumentation in teaching and learning. Chapters explore scientific argumentation as a means of addressing and solving problems in conceptual change, reasoning, knowledge-building and the promotion of scientific literacy. Others interrogate topics such as the importance of language, discursive practice, social interactions and culture in the classroom. The material in this book, which features intervention studies, discourse analyses, classroom-based experiments, anthropological observations, and design-based research, will inform theoretical frameworks and changing pedagogical practices as well as encourage new avenues of research.

Educational researchers are bound to see this as a timely work. It brings together the work of leading experts in argumentation in science education. It presents research combining theoretical and empirical perspectives relevant for secondary science classrooms. Since the 1990s, argumentation studies have increased at a rapid pace, from stray papers to a wealth of research exploring ever more sophisticated issues. It is this fact that makes this volume so crucial.

A proposal for an interdisciplinary, context-sensitive framework for assessing the strength of scientific arguments that melds Jürgen Habermas's discourse theory and sociological contextualism. Recent years have seen a series of intense, increasingly acrimonious debates over the status and legitimacy of the natural sciences. These "science wars" take place in the public arena—with current battles over evolution and global warming—and in academia, where assumptions about scientific objectivity have been called into question. Given these hostilities, what makes a scientific claim merit our consideration? In *Cogent Science in Context*, William Rehg examines what makes scientific arguments cogent—that is, strong and convincing—and how we should assess that cogency. Drawing on the tools of argumentation theory, Rehg proposes a multidimensional, context-sensitive framework both for understanding the cogency of scientific arguments and for conducting cooperative interdisciplinary assessments of the cogency of actual scientific arguments. Rehg closely examines Jürgen Habermas's argumentation theory and its implications for understanding cogency, applying it to a case from high-energy physics. A series of problems, however, beset Habermas's approach. In response, Rehg outlines his own "critical contextualist" approach, which uses argumentation-theory categories in a new and more context-sensitive way inspired by ethnography of science.

This book offers its readers an overview of recent developments in the theory of legal argumentation written by representatives from various disciplines, including argumentation theory, philosophy of law, logic and artificial intelligence. It presents an overview of contributions representative of different academic and legal cultures, and different continents and countries. The book contains contributions on strategic maneuvering, argumentum ad absurdum, argumentum ad hominem, consequentialist argumentation, weighing and balancing, the relation between legal argumentation and truth, the distinction between the context of discovery and context of justification, and the role of constitutive and regulative rules in legal argumentation. It is based on a selection of papers that were presented in the special workshop on Legal Argumentation organized at the 25th IVR World Congress for Philosophy of Law and Social Philosophy held 15-20 August 2011 in Frankfurt, Germany.

Topical Themes in Argumentation Theory brings together twenty exploratory studies on important subjects of research in contemporary argumentation theory. The essays are based on papers that were presented at the 7th Conference of the International Society for the Study of Argumentation (ISSA) in Amsterdam in June 2010. They give an impression of the nature and the variety of the kind of research that has recently been carried out in the study of argumentation. The volume starts with three essays that provide stimulating theoretical perspectives on argumentation. Subsequently, some views are explained on the intriguing topics of 'dissensus' and 'deep disagreement'. After a discussion of three different approaches to the treatment of types of argumentation some classical themes from antique argumentation theory are revisited. The new research area of visual argumentation is explored in the next part. The volume concludes with three reports of experimental studies concerning argumentative discourse. The volume starts with three essays that provide stimulating theoretical perspectives on argumentation. Subsequently, some views are explained on the intriguing topics of 'dissensus' and 'deep disagreement'. After a discussion of three different approaches to the treatment of types of argumentation some classical themes from antique argumentation theory are revisited. The new research area of visual argumentation is explored in the next part. The volume concludes with three reports of experimental studies concerning argumentative discourse.

Argumentation theory is a distinctly multidisciplinary field of inquiry. It draws its data, assumptions, and methods from disciplines as disparate as formal logic and discourse analysis, linguistics and forensic science, philosophy and psychology, political science and education, sociology and law, and rhetoric and artificial intelligence. This presents the growing group of interested scholars and students with a problem of access, since it is even for those active in the field not common to have acquired a familiarity with relevant aspects of each discipline that enters into this multidisciplinary matrix. This book offers its readers a unique comprehensive survey of the various theoretical contributions which have been made to the study of argumentation. It discusses the historical works that provide the background to the field and all major approaches and trends in contemporary research. Argument has been the subject of systematic inquiry for twenty-five hundred years. It has been graced with theories, such as formal logic or the legal theory of evidence, that have acquired a more or less settled provenance with regard to specific issues. But there has been nothing to date that qualifies as a unified general theory of argumentation, in all its richness and complexity. This being so, the argumentation theorist must have access to materials and methods that lie beyond his or her "home" subject. It is precisely on this account that this volume is offered to all the constituent research communities and their students. Apart from the historical sections, each chapter provides an economical introduction to the problems and methods that characterize a given part of the contemporary research program. Because the chapters are self-contained, they can be consulted in the order of a reader's interests or research requirements. But there is value in reading the work in its entirety. Jointly authored by the very people whose research has done much to define the current state of argumentation theory and to point the way toward more general and unified future treatments, this book is an impressively authoritative contribution to the field.

The essays that are collected in *Controversy and Confrontation* provide a closer insight into the relationship between controversy and confrontation that deepens our understanding of the functioning of argumentative discourse in managing differences of opinion. Their authors stem from two backgrounds. First, the controversy scholars Dascal, Marras, Euli, Regner, Ferreira, and Lessl discuss historical controversies in science, both from a theoretical and an empirical perspective; Saim concentrates on a historical controversy; Fritz provides a historical perspective on controversies by analyzing communication principles. Second the argumentation scholars Johnson, van Laar, van Eemeren, Garssen and Meuffels address theoretical or empirical aspects of argumentative confrontation; Aakhus and Vasilyeva examine argumentative discourse from the perspective of conversation analysis; Jackson analyzes argumentative confrontation in a recent debate between scientists and politicians. Last but not least, two contributors, Kutrovátz and Zemplén, make an attempt to bridge the study of historical controversy and the study of argumentation.

Many studies have highlighted the importance of discourse in scientific understanding. Argumentation is a form of scientific discourse that plays a central role in the building of explanations, models and theories. Scientists use arguments to relate the evidence that they select from their investigations and to justify the claims that they make about their observations. The implication is that argumentation is a scientific habit of mind that needs to be appropriated by students and explicitly taught through suitable instruction. Edited by Sibel Erduran, an internationally recognised expert in chemistry education, this book brings together leading researchers to draw attention to research, policy and practice around the inclusion of argumentation in chemistry education. Split into three sections: Research on Argumentation in Chemistry Education, Resources and Strategies on Argumentation in Chemistry Education, and Argumentation in Context, this book blends practical resources and strategies with research-based evidence. The book contains state of the art research and offers educators a balanced perspective on the theory and practice of argumentation in chemistry education.

Like three guides in one, *Scientific Argumentation in Biology* combines theory, practice, and biological content. This thought-provoking book starts by giving you solid background in why students need to be able to go beyond expressing mere opinions when making research-related biology claims. Then it provides 30 field-tested activities your students can use when learning to propose, support, and evaluate claims; validate or refute them on the basis of scientific reasoning; and craft complex written arguments. Detailed teacher notes suggest specific ways to use the activities to enrich and supplement (not replace) what you're doing in class already. You'll find *Scientific Argumentation* to be an ideal way to help your students learn standards-based content, improve their practices, and develop scientific habits of mind.

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