

*Theoretical Aspects of*

# Reasoning About Knowledge

*Proceedings of the  
Third Conference  
(TARK 1990)*

*Edited by  
Rohit Parikh*

# Theoretical Aspects Of Reasoning About Knowledge

**Joseph Y. Halpern**



## **Theoretical Aspects Of Reasoning About Knowledge:**

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*Rough Sets* Z. Pawlak, 2012-12-06 To date computers are supposed to store and exploit knowledge At least that is one of the aims of research fields such as Artificial Intelligence and Information Systems However the problem is to understand what knowledge means to find ways of representing knowledge and to specify automated machineries that can extract useful information from stored knowledge Knowledge is something people have in their mind and which they can express through natural language Knowledge is acquired not only from books but also from observations made during experiments in other words from data Changing data into knowledge is not a straightforward task A set of data is generally disorganized contains

useless details although it can be incomplete Knowledge is just the opposite organized e.g. laying bare dependencies or classifications but expressed by means of a poorer language i.e. pervaded by imprecision or even vagueness and assuming a level of granularity One may say that knowledge is summarized and organized data at least the kind of knowledge that computers can store

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**Theoretical Aspects of Reasoning about Knowledge** Joseph Y. Halpern, 1986 **Theoretical Aspects of Reasoning About Knowledge** Theoretical Aspects of Reasoning about Knowledge Moshe Y. Vardi, 1988 **Theoretical Aspects of Reasoning about Knowledge** Ronald Fagin, 1994 Interest in the area of Theoretical Aspects of Reasoning About Knowledge has increased significantly since the first conference was held in 1986 in the Asilomar Conference Center in Pacific Grove California Since then the conference has become a regular biennial event The results of scientists in the field of reasoning about knowledge have contributed to research in a variety of areas including artificial intelligence economics linguistics philosophy and theoretical computer science This volume chronicles the fifth conference held in 1994 which included presentations by an interdisciplinary collection of leading researchers in the field The 23 extended abstracts published here include 21 contributed papers and 2 invited papers and represent state of the art research This volume is a valuable reference to the active interdisciplinary field of reasoning about knowledge suitable for researchers students and teachers

**Conference on Theoretical Aspects of Reasoning and Knowledge ; 2** ,1988 Theoretical Aspects of Reasoning about Knowledge Rohit Patrick, 1990 **Theoretical Aspects of Reasoning about Knowledge** Joseph Y. Halpern, 1986 **Conference on Theoretical Aspects of Reasoning and Knowledge ; 4** ,1992 **Conference on Theoretical Aspects of Reasoning and Knowledge ; 3** ,1990 **Proceedings of the Conference on Theoretical Aspects of Reasoning about Knowledge** International Business Machines Corporation, American Association for Artificial

Intelligence, États-Unis. Office of Naval Research, Association for Computing Machinery, 1986 Theoretical Aspects of Reasoning about Knowledge Rohit Parikh, 1990 Selected papers presented to the 3rd conference TARK 1990 Pacific Grove Calif March 1990 The 19 papers represent current research from computer science artificial intelligence economics linguistics and philosophy Four tutorials and an invited talk provide background and points of connection **Theoretical Aspects of Reasoning about Knowledge** Yoram Ofer Moses, 1992 **Conference on Theoretical Aspects of Reasoning and Knowledge ; 1986** ,1986 Collected Papers Robert J. Aumann, 2000 Robert Aumann's career in game theory has spanned over research from his doctoral dissertation in 1956 to papers as recent as January 1995 Threaded through all of Aumann's work symbolized in his thesis on knots is the study of relationships between different ideas between different phenomena and between ideas and phenomena When you look closely at one scientific idea writes Aumann you find it hitched to all others It is these hitches that I have tried to study **Theoretical Aspects of Reasoning about Knowledge. Proceedings of the Conference Held in Monterey, California on March 19, 20, 21, and 22, 1986** Joseph Y. Halpern, IBM ALMADEN RESEARCH CENTER SAN JOSE CA., 1986 Work on reasoning about knowledge has been carried out by researchers in a number of different fields philosophy linguistics artificial intelligence economics and theoretical computer science among others This conference represents the first attempt to bring together researchers from all these areas to discuss issues of mutual interest This volume consists of those nineteen papers together with a few invited papers intended to provide an overview of the state of the art of the field None of the final submissions was formally referred and many of them represent preliminary reports on continuing research It is anticipated that most of these papers will appear in more polished and complete form in scientific journals Encyclopedia of Microcomputers Allen Kent, James G. Williams, 1994-05-12 The Encyclopedia of Microcomputers serves as the ideal companion reference to the popular Encyclopedia of Computer Science and Technology Now in its 10th year of publication this timely reference work details the broad spectrum of microcomputer technology including microcomputer history explains and illustrates the use of microcomputers throughout academe business government and society in general and assesses the future impact of this rapidly changing technology **Conference on Theoretical Aspects of Reasoning about Knowledge** ,1990 The Third Conference on Theoretical Aspects of Reasoning about Knowledge was held at the Asilomar Conference Center in Pacific Grove Seventy nine papers covering aspects of reasoning about knowledge in artificial intelligence computer science economics and philosophy were submitted in response to a call for papers The program committee considered all the papers carefully at least three and usually four committee members read each paper In the end nineteen papers were selected based on their contribution novelty interest to an interdisciplinary audience and relevance to the scope of the conference In addition to the contributed papers the program included tutorial sessions and an invited talk intended to provide an overview of several topics The proceedings of the conference were published by Morgan Kaufmann Publishers

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