

ALGEBRAIC SEMANTICS IN LANGUAGE AND PHILOSOPHY



GODEHARD LINK

Algebraic Semantics

Irène Guessarian



Algebraic Semantics:

Algebraic Semantics in Language and Philosophy Godehard Link, 1998-01 An analysis of the structural properties of collections or pluralities homogeneous objects like water and the semantics and philosophy of events *A General Algebraic Semantics for Sentential Logics* Josep Maria Font, Ramon Jansana, 2017-03-02 An exposition of the approach to the algebraization of sentential logics developed by the Barcelona logic group Algebraic Semantics of Imperative Programs Joseph Goguen, Grant Malcolm, 1996 Algebraic Semantics of Imperative Programs presents a self contained and novel executable introduction to formal reasoning about imperative programs The authors primary goal is to improve programming ability by improving intuition about what programs mean and how they run The semantics of imperative programs is specified in a formal implemented notation the language OBJ this makes the semantics highly rigorous yet simple and provides support for the mechanical verification of program properties OBJ was designed for algebraic semantics its declarations introduce symbols for sorts and functions its statements are equations and its computations are equational proofs Thus an OBJ program is an equational theory and every OBJ computation proves some theorem about such a theory This means that an OBJ program used for defining the semantics of a program already has a precise mathematical meaning Moreover standard techniques for mechanizing equational reasoning can be used for verifying axioms that describe the effect of imperative programs on abstract machines These axioms can then be used in mechanical proofs of properties of programs Intended for advanced undergraduates or beginning graduate students Algebraic Semantics of Imperative Programs contains many examples and exercises in program verification all of which can be done in OBJ Algebraic Methods in Semantics M. Nivat, John C. Reynolds, 1985 This book which contains contributions from leading researchers in France USA and Great Britain gives detailed accounts of a variety of methods for describing the semantics of programming languages i e for attaching to programs mathematical objects that encompass their meaning Consideration is given to both denotational semantics where the meaning of a program is regarded as a function from inputs to outputs and operational semantics where the meaning includes the sequence of states or terms generated internally during the computation The major problems considered include equivalence relations between operational and denotational semantics rules for obtaining optimal computations especially for nondeterministic programs equivalence of programs meaning preserving transformations of programs and program proving by assertions Such problems are discussed for a variety of programming languages and formalisms and a wealth of mathematical tools is described *Algebraic Semantics* I. Guessarian, 1981-02 *Algebraizable Logics* W. J. Blok, Don Pigozzi, 2022-07-23 W J Blok and Don Pigozzi set out to try to answer the question of what it means for a logic to have algebraic semantics In this seminal book they transformed the study of algebraic logic by giving a general framework for the study of logics by algebraic means The Dutch mathematician W J Blok 1947 2003 received his doctorate from the University of Amsterdam in 1979 and was Professor of Mathematics at the University of Illinois Chicago until his

death in an automobile accident Don Pigozzi 1935 grew up in Oakland California received his doctorate from the University of California Berkeley in 1970 and was Professor of Mathematics at Iowa State University until his retirement in 2002 The Advanced Reasoning Forum is pleased to make available in its Classic Reprints series this exact reproduction of the 1989 text with a new errata sheet prepared by Don Pigozzi

Algebraic Semantics Irène Guessarian, 1981

Semantics of Systems of Concurrent Processes Irene Guessarian, Laboratoire informatique théorique et programmation (France), 1990-11-28 This volume contains the proceedings of the 1990 Spring School of Theoretical Computer Science devoted to the semantics of concurrency The papers are of two kinds surveys and tutorials introducing the subject to novices and students and giving updates of the state of the art research papers presenting recent achievements in the semantics of concurrency The contributions explicate the connections similarities and differences between various approaches to the semantics of concurrency such as pomsets and metric semantics event structures synchronization trees fixpoints and languages traces CCS and Petri nets and categorical models They also cover and compare the various notions of observation and bisimulation equivalences logics for concurrency and applications to distributed systems

Semantics and Algebraic Specification

Jens Palsberg, 2009-09-19 This Festschrift volume published to honor Peter D Mosses on the occasion of his 60th birthday includes 17 invited chapters by many of Peter's coauthors collaborators close colleagues and former students Peter D Mosses is known for his many contributions in the area of formal program semantics In particular he developed action semantics a combination of denotational operational and algebraic semantics The presentations given on a symposium in his honor in Udine Italy on September 10 2009 were on subjects related to Peter's many technical contributions and they were a tribute to his lasting impact on the field Topics addressed by the papers are action semantics security policy design colored petri nets order sorted parameterization and induction object oriented action semantics structural operational semantics model transformations the scheme programming language type checking action algebras and denotational semantics

Relational and Algebraic Methods in Computer Science Peter Höfner, Damien Pous, Georg Struth, 2017-05-08 This book constitutes the proceedings of the 16th International Conference on Relational and Algebraic Methods in Computer Science RAMiCS 2017 held in Lyon France in May 2017 The 17 revised full papers and 2 invited papers presented together with 1 invited abstract were carefully selected from 28 submissions Topics covered range from mathematical foundations to applications as conceptual and methodological tools in computer science and beyond

A General Algebraic Semantics for Sentential Logics Josep M. Font, Ramon Jansana, 1996 The purpose of this monograph is to develop a very general approach to the algebraization of sentential logics to show its results on a number of particular logics and to relate it to other existing approaches namely to those based on logical matrices and the equational consequence developed by Blok Czelakowski Pigozzi and others The main distinctive feature of our approach lies in the mathematical objects used as models of a sentential logic We use abstract logics while the classical approaches use logical matrices Using models with more structure

allows us to reflect in them the metalogical properties of the sentential logic Since an abstract logic can be viewed as a bundle or family of matrices one might think that the new models are essentially equivalent to the old ones but we believe after an overall appreciation of the work done in this area that it is precisely the treatment of an abstract logic as a single object that gives rise to a useful and beautiful mathematical theory able to explain the connections not only at the logical level but at the metalogical level between a sentential logic and the particular class of models we associate with it namely the class of its full models Traditionally logical matrices have been regarded as the most suitable notion of model in the algebraic studies of sentential logics and indeed this notion gives several completeness theorems and has generated an interesting mathematical theory

Formal Methods for Nonmonotonic and Related Logics

Karl Schlechta, 2018-11-03 The two volumes in this advanced textbook present results proof methods and translations of motivational and philosophical considerations to formal constructions In this Vol I the author explains preferential structures and abstract size In the associated Vol II he presents chapters on theory revision and sums defeasible inheritance theory interpolation neighbourhood semantics and deontic logic abstract independence and various aspects of nonmonotonic and other logics In both volumes the text contains many exercises and some solutions and the author limits the discussion of motivation and general context throughout offering this only when it aids understanding of the formal material in particular to illustrate the path from intuition to formalisation Together these books are a suitable compendium for graduate students and researchers in the area of computer science and mathematical logic

Nature of Computation and Communication

Phan Cong Vinh, Hafiz Mahfooz Ul Haque, 2024-05-02 This book constitutes the refereed post conference proceedings of the 9th International Conference on Nature of Computation and Communication ICTCC 2023 held in Ho Chi Minh City Vietnam in October 2023 The 12 revised full papers presented were carefully selected from 30 submissions The papers of ICTCC 2023 cover formal methods for self adaptive systems and discuss natural approaches and techniques for natural computing systems and their applications

Human-Centric Information Processing Through Granular Modelling

Andrzej Bargiela, Witold Pedrycz, 2009-02-26 Information granules and their processing permeate a way in which we perceive the world carryout processing at the conceptual abstract level and communicate our findings to the surrounding environment The importance of information granulation becomes even more apparent when we are faced with a rapidly growing flood of data become challenged to make decisions in complex data settings and are required to appreciate the context from which the data is derived Human centricity of systems that claim to be intelligent and the granular computing come hand in hand It is not surprising at all to witness that the paradigm of Granular Computing has started to gain visibility and continues along this path by gathering interest from the circles of academics and practitioners It is quite remarkable that the spectrum of application and research areas that have adopted information granulation as a successful strategy for dealing with information complexity covers such diverse fields as bioinformatics image understanding environmental monitoring urban

sustainability to mention few most visible in the literature Undoubtedly there are two important aspects of Granular Computing that are worth stressing First there are several formalisms in which information granules are articulated so be intervals sets fuzzy sets rough sets soft sets approximate sets near sets and alike They are complementary and each of them offers some interesting views at the complexity of the world and cyberspace

Software Fault Prevention, Verification, and Validation Shaoying Liu, 2025-02-24 This book constitutes the refereed proceedings of the First International Symposium on Software Fault Prevention Verification and Validation SFPVV 2024 held in Hiroshima Japan during December 2 3 2024 The 18 full papers included in this book were carefully reviewed and selected from 39 submissions This SFPVV 2024 symposium encourages the exchange of ideas and discussion on how formal methods testing based techniques AI driven approaches and their combinations can be explored established and refined to achieve the goals of software fault prevention verification and validation

ModelEd, TestEd, TrustEd Joost-Pieter Katoen, Rom Langerak, Arend Rensink, 2017-10-16 This Festschrift volume has been published in honor of Ed Brinksma on the occasion of his 60th birthday The contributions in this Festschrift are written by a number of Ed's former Ph D students and collaborators The papers are a reflection on his research contributions and interests and all fall into the area of formal methods or in Ed's terminology applied mathematics in computer science The papers address modeling languages and semantics model based testing verification and performance analysis probabilistic computation system dynamics and applications of formal methods

Unifying Theories of Programming Burkhard Wolff, Marie-Claude Gaudel, Abderrahmane Feliachi, 2013-01-03 This book constitutes the refereed proceedings of the 4th International Symposium on Unifying Theories of Programming UTP 2012 held in Paris France in August 2012 co located with the 18th International Symposium on Formal Methods FM 2012 The 8 revised full papers presented together with 2 invited talks and one invited lecture were carefully reviewed and selected from 13 submissions

Software Specification Methods Henri Habrias, Marc Frappier, 2013-03-01 This title provides a clear overview of the main methods and has a practical focus that allows the reader to apply their knowledge to real life situations The following are just some of the techniques covered UML Z TLA SAZ B OMT VHDL Estelle SDL and LOTOS

A Dictionary of Computer Science Andrew Butterfield, Gerard Ekembe Ngondi, 2016 This bestselling dictionary has been fully revised making it the most up to date and authoritative reference of its kind Providing comprehensive coverage of computer applications in industry school work education and the home it is the ideal reference for students professionals and anyone who uses computers

Algebraic Calculi for Hybrid Systems Peter Höfner, 2009

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