Vladimir A. Fomichov

Semantics–Oriented Natural Language Processing

Mathematical Models and Algorithms

Mathematical Models For The Semantics Of

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   Mathematical Models for the Semantics of Parallelism Marisa Venturini Zilli,1987-10-07 The papers collected in this volume are most of the material presented at the Advanced School on Mathematical Models for the Semantics of Parallelism held in Rome September 24 October 1 1986 The need for a comprehensive and clear presentation of the several semantical approaches to parallelism motivated the stress on mathematical models by means of which comparisons among different approaches can also be performed in a perspicuous way   *Semantics-Oriented Natural Language Processing* Vladimir Fomichov A.,2009-12-01 Gluecklich die wissen dass hinter allen Sprachen das Unsaegliche steht Those are happy who know that behind all languages there is something unsaid Rainer Maria Rilke This book shows in a new way that a solution to a fundamental problem from one scienti c eld can help to nd the solutions to important problems emerged in several other elds of science and technology In modern science the term Natural Language denotes the collection of all such languages that every language is used as a primary means of communication by people belonging to any country or any region So Natural Language NL includes in particular the English Russian and German languages The applied computer systems processing natural language printed or written texts NL texts or oral speech with respect to the fact that the words are associated with some meanings are called semantics oriented natural language processing s tems NLPSs On one hand this book is a snapshot of the current stage of a research p gram started many years ago and called Integral Formal Semantics IFS of NL The goal of this program has been to develop the formal models and methods he ing to overcome the dif culties of logical character associated with the engineering of semantics oriented NLPSs The designers of such systems of arbitrary kinds will nd in this book the formal means and algorithms being of great help in their work   **The Alternative Mathematical Model of Linguistic Semantics and Pragmatics** Vilém Novák,2013-06-29 In opposition to the classical set theory of natural language Nov k s highly original monograph offers a theory based on alternative and fuzzy sets This new approach is firmly grounded in semantics and pragmatics and accounts for the vagueness inherent in natural language filling a large gap in our current knowledge The theory will foster fruitful debate among researchers in linguistics and artificial intellegence   **Mathematical Models for the Semantics of Parallelism** Marisa Venturini Zilli,2014-03-12 The papers collected in this volume are most of the material presented at the Advanced School on Mathematical Models for the Semantics of Parallelism held in Rome September 24 October 1 1986 The need for a comprehensive and clear presentation of the several semantical approaches to parallelism motivated the stress on mathematical models by means of which comparisons among different approaches can also be performed in a perspicuous way   **Mathematical Models of Meaning** Paul Kockelman,2025-08-19 A mathematical model of meaning that captures the dynamics and diversity of meaning oriented agents In Mathematical Models of Meaning Paul Kockelman offers answers to the following kinds of questions What is meaning What is the relation between meaning information value and purpose What ingredients are

necessary for a system to exhibit meaning What behaviors and capacities for behavior are particular to meaning oriented agents Is there a relatively simple mathematical model that can adequately capture the dynamics and diversity of meaning oriented agents And finally how can we best bridge the divide between interpretive paradigms that are qualitative and context rich and formal methods that are quantitative and domain general Partially grounded in a pragmatist approach this book rethinks the semiotic statistical and logical currents of Charles Sanders Peirce s thought in relation to more recent developments in allied traditions Putting possible worlds as well as social relations at the center of significance it focuses on the emergence of meaningful behavior among relatively distributed agents that choose in real time learn over developmental time or evolve over phylogenetic time   **Semantics** Muhammad Tanvir Afzal,2012-04-25 The current book is a nice blend of number of great ideas theories mathematical models and practical systems in the domain of Semantics The book has been divided into two volumes The current one is the first volume which highlights the advances in theories and mathematical models in the domain of Semantics This volume has been divided into four sections and ten chapters The sections include 1 Background 2 Queries Predicates and Semantic Cache 3 Algorithms and Logic Programming and 4 Semantic Web and Interfaces Authors across the World have contributed to debate on state of the art systems theories mathematical models in the domain of Semantics Subsequently new theories mathematical models and systems have been proposed developed and evaluated   **The Compiler Design Handbook** Y.N. Srikant,Priti Shankar,2002-09-25 The widespread use of object oriented languages and Internet security concerns are just the beginning Add embedded systems multiple memory banks highly pipelined units operating in parallel and a host of other advances and it becomes clear that current and future computer architectures pose immense challenges to compiler designers challenges th   **Modeling Students' Mathematical Modeling Competencies** Richard Lesh,Peter L. Galbraith,Christopher R. Haines,Andrew Hurford,2013-03-17 Modeling Students Mathematical Modeling Competencies offers welcome clarity and focus to the international research and professional community in mathematics science and engineering education as well as those involved in the sciences of teaching and learning these subjects   **Modern Computational Models of Semantic Discovery in Natural Language** Žižka, Jan,2015-07-17 Language that is oral or written content that references abstract concepts in subtle ways is what sets us apart as a species and in an age defined by such content language has become both the fuel and the currency of our modern information society This has posed a vexing new challenge for linguists and engineers working in the field of language processing how do we parse and process not just language itself but language in vast overwhelming quantities Modern Computational Models of Semantic Discovery in Natural Language compiles and reviews the most prominent linguistic theories into a single source that serves as an essential reference for future solutions to one of the most important challenges of our age This comprehensive publication benefits an audience of students and professionals researchers and practitioners of linguistics and language discovery This book includes a comprehensive range

of topics and chapters covering digital media social interaction in online environments text and data mining language processing and translation and contextual documentation among others **Algebraic Methods: Theory, Tools and Applications** Martin Wirsing,Jan A. Bergstra,1989-09-20 **Mathematical Modeling of the Immune System in Homeostasis, Infection and Disease** Gennady Bocharov,Burkhard Ludewig,Andreas Meyerhans,Vitaly Volpert,2020-02-24 The immune system provides the host organism with defense mechanisms against invading pathogens and tumor development and it plays an active role in tissue and organ regeneration Deviations from the normal physiological functioning of the immune system can lead to the development of diseases with various pathologies including autoimmune diseases and cancer Modern research in immunology is characterized by an unprecedented level of detail that has progressed towards viewing the immune system as numerous components that function together as a whole network Currently we are facing significant difficulties in analyzing the data being generated from high throughput technologies for understanding immune system dynamics and functions a problem known as the curse of dimensionality As the mainstream research in mathematical immunology is based on low resolution models a fundamental question is how complex the mathematical models should be To respond to this challenging issue we advocate a hypothesis driven approach to formulate and apply available mathematical modelling technologies for understanding the complexity of the immune system Moreover pure empirical analyses of immune system behavior and the system s response to external perturbations can only produce a static description of the individual components of the immune system and the interactions between them Shifting our view of the immune system from a static schematic perception to a dynamic multi level system is a daunting task It requires the development of appropriate mathematical methodologies for the holistic and quantitative analysis of multi level molecular and cellular networks Their coordinated behavior is dynamically controlled via distributed feedback and feedforward mechanisms which altogether orchestrate immune system functions The molecular regulatory loops inherent to the immune system that mediate cellular behaviors e g exhaustion suppression activation and tuning can be analyzed using mathematical categories such as multi stability switches ultra sensitivity distributed system graph dynamics or hierarchical control GB is supported by the Russian Science Foundation grant 18 11 00171 AM is also supported by grants from the Spanish Ministry of Economy Industry and Competitiveness and FEDER grant no SAF2016 75505 R the Mar a de Maeztu Programme for Units of Excellence in R D MDM 2014 0370 and the Russian Science Foundation grant 18 11 00171 **Ten Years Of Concurrency Semantics: Selected Papers Of The Amsterdam Concurrency Group** J W De Bakker,J Rutten,1992-09-22 This collection of reprints describes a unified treatment of semantics covering a wide range of notions in parallel languages Included are several foundational and introductory papers developing the methodology of metric semantics studies on the comparative semantics of parallel object oriented and logic programming and papers on full abstraction and transition system specifications In addition links with process algebra and the theory of domain equations are established Throughout a

uniform proof technique is used to relate operational and denotational models The approach is flexible in that both linear time branching time or bisimulation and intermediate models can be handled as well as schematic and interpreted elementary actions The reprints are preceded by an extensive introduction surveying related work on metric semantics

<u>High-Performance Computing Systems and Technologies in Scientific Research, Automation of Control and Production</u> Vladimir Jordan,Nikolay Filimonov,Ilya Tarasov,Vladimir Faerman,2021-01-15 This book constitutes selected revised and extended papers from the 10th International Conference on High Performance Computing Systems and Technologies in Scientific Research Automation of Control and Production HPCST 2020 Barnaul Russia in May 2020 Due to the COVID 19 pancemic the conference was partly held in virtual mode The 14 full papers presented in this volume were thoroughly reviewed and selected form 51 submissions The papers are organized in topical sections on hardware for high performance computing and its applications information technologies and computer simulation of physical phenomena **The Formal Semantics of Programming Languages** Glynn Winskel,1993-02-05 The Formal Semantics of Programming Languages provides the basic mathematical techniques necessary for those who are beginning a study of the semantics and logics of programming languages These techniques will allow students to invent formalize and justify rules with which to reason about a variety of programming languages Although the treatment is elementary several of the topics covered are drawn from recent research including the vital area of concurency The book contains many exercises ranging from simple to miniprojects Starting with basic set theory structural operational semantics is introduced as a way to define the meaning of programming languages along with associated proof techniques Denotational and axiomatic semantics are illustrated on a simple language of while programs and fall proofs are given of the equivalence of the operational and denotational semantics and soundness and relative completeness of the axiomatic semantics A proof of Godel s incompleteness theorem which emphasizes the impossibility of achieving a fully complete axiomatic semantics is included It is supported by an appendix providing an introduction to the theory of computability based on while programs Following a presentation of domain theory the semantics and methods of proof for several functional languages are treated The simplest language is that of recursion equations with both call by value and call by name evaluation This work is extended to lan guages with higher and recursive types including a treatment of the eager and lazy lambda calculi Throughout the relationship between denotational and operational semantics is stressed and the proofs of the correspondence between the operation and denotational semantics are provided The treatment of recursive types one of the more advanced parts of the book relies on the use of information systems to represent domains The book concludes with a chapter on parallel programming languages accompanied by a discussion of methods for specifying and verifying nondeterministic and parallel programs <u>Foundations of Object-Oriented Languages</u> J.W. de Bakker,W.P. de Roever,G. Rozenberg,1991-04-24 Proceedings **Formal Models and Semantics** Bozzano G Luisa,2014-06-28 The second part of this Handbook presents a choice of material on the theory of automata and rewriting

systems the foundations of modern programming languages logics for program specification and verification and some chapters on the theoretic modelling of advanced information processing   **MontiArc - Architectural Modeling and Simulation of Interactive Distributed Systems** Arne Haber,2016-09-02 Formal ADLs offer great potential to analyse the architecture of a system predict the overall performance by using simulations and allow to automatically generate parts of the implementation Nevertheless ADLs are rather not used in industrial practice since several problems hinder to exploit their potential to the full extend This thesis elaborates the design of an ADL that copes with these impediments of ADLs in practice Therefore the design of a lightweight ADL is derived which also provides well defined extension points to be adapted to a certain domain or development process Furthermore it is investigated how architectural modeling can be enriched with agile development methods to support incremental modeling and the validation of system architectures Therefore a set detailed of requirements for architectural modeling and the simulation of system architectures is defined and MontiArc a concrete ADL to model logical architectures of distributed interactive systems is derived The language is based on the mathematical FOCUS BS01 framework which allows to simulate modeled systems in an event based style Code generators and a simulation framework provide means to continuously refine and test architectural models To add new features or adapt the language to a new domain a corresponding language extension method is presented to extend the syntax language processing tools and code generators of the ADL A lightweight model library concept is presented which allows to develop and reuse component models and their implementation in a controlled and transparent way The developed language the simulator and the language extension techniques have been examined in several case studies which either used or extended MontiArc   *An Extensible Component & Connector Architecture Description Infrastructure for Multi-Platform Modeling* Andreas Wortmann,2016-11-08 Software engineering for complex systems requires abstraction multi domain expertise separation of concerns and reuse Domain experts rarely are software engineers and should formulate solutions using their domain s vocabulary instead of general purpose programming languages GPLs Successful integration of domain specific languages DSLs into a software system requires a separation of concerns between domain issues and integration issues while retaining a loose enough coupling to support DSL reuse in different contexts Component based software engineering CBSE increases reuse and separation of concerns by encapsulating functionalities in components Components are GPL artifacts which raises accidental complexities Model driven engineering MDE abstracts from GPLs by lifting models to primary development artifacts Models can be abstract and better comprehensible by using domain vocabulary instead of a GPL They can be platform independent and translated into GPLs for different target platforms Component connector C C architecture description languages ADLs combine CBSE and MDE to compose of architectures from component models We present concepts for engineering software systems with exchangeable component behavior languages The concepts are realized in a software architecture modeling infrastructure that comprises modeling languages to develop applications based on C C

software architectures with exchangeable component behavior DSLs It supports transformations from platform independent to platform specific software architectures and compositional code generation With this it enables domain experts to re use the most appropriate component behavior DSL and facilitates composition of domain solutions through encapsulation in components *Systems Research I* Kyoichi Kijima,Junichi Iijima,Ryo Sato,Hiroshi Deguchi,Bumpei Nakano,2022-05-04 This book is in honor of Yasuhiko Takahara a first class researcher who has been active for some 50 years at the global level in systems research Researchers and practitioners from Japan and other countries who have been influenced by Takahara have come together from far and wide to contribute their major research masterpieces in the field of systems research in the broadest sense While the roots of Takahara s systems research are in general systems theory and systems control theory he developed his research and teaching in diverse directions such as management information science engineering social simulation and systems thinking As a result many of the researchers and practitioners he supervised or influenced have established their own positions and are now active around the world in a wide range of systems research Volume I is a collection of their masterpieces or representative works in the field of systems theory and modeling **Active Conceptual Modeling of Learning** Peter P. Chen,Leah Y. Wong,2008-01-04 This volume is a collection of papers presented during the first International ACM L Workshop which was held in Tucson Arizona during the 25th International Conference on Conceptual Modeling ER 2006 Included in this state of the art survey are 11 revised full papers carefully reviewed and selected from the workshop presentations These are rounded off with four invited lectures and an introductory overview and represent the current thinking in conceptual modeling research

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