

WORKSHOPS IN COMPUTING

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D.J. Andrews, J.F. Groote and  
C.A. Middelburg (Eds.)

# **Semantics of Specification Languages, Utrecht 1993**



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# Semantics Of Specification Languages Sosl

**M Woodhall**



## **Semantics Of Specification Languages Sosl:**

Semantics of Specification Languages (SoSL) Derek J. Andrews, Jan F. Groote, C.A. Middelburg, 2012-12-06 SoSL was the first International Workshop on Semantics of Specification Languages held from 25-27 October 1993 in Utrecht the Netherlands. The workshop was organized by the Department of Philosophy of Utrecht University with financial support from the Nationale Facilititeit Informatica of the Nederlandse Organisatie voor Wetenschappelijk Onderzoek NWO and under the auspices of the British Computer Society's specialist group in Formal Aspects of Computing Science BCS FACS. The concern of the workshop was the semantics of specification languages and the issues closely related to this area such as type checking and the justification of proof rules and proof obligations. Its aim was the exchange of problems and ideas in this field of formal methods and the identification of common programs of work for further investigation. The program of SoSL consisted of 3 invited lectures presenting the developments of the semantics of 3 major specification languages. Furthermore, there were 16 presentations of submitted papers. This volume provides a direct account of the workshop. It contains 3 papers that match the invited lectures and the 16 selected papers. The editors want to thank all those who have contributed to the workshop: the Program Committee and the referees for selecting the contributed papers; the invited speakers for their interesting talks; the Organizing Committee for all their efforts; and of course the participants. We have the feeling that the workshop was worthwhile and should be repeated.

Semantics of Specification Languages (SoSL) Derek Andrews, Jan Frisco Groote, Cornelis A. Middelburg, 1994

**Language Prototyping: An Algebraic Specification Approach** Jan Heering, Paul Klint, Arie Van Deursen, 1996-09-30 Language prototyping provides a means to generate language implementations automatically from high-level language definitions. This volume presents an algebraic specification approach to language prototyping and is centered around the ASF/SDF formalism and Meta-Environment. The volume is an integrated collection of articles covering a number of case studies and includes several chapters proposing new techniques for deriving advanced language implementations. The accompanying software is freely available.

**Semantics in Data and Knowledge Bases** Klaus-Dieter Schewe, Bernhard Thalheim, 2011-09-06 This book constitutes the thoroughly refereed post-proceedings of the 4th International Workshop on Semantics in Data and Knowledge Bases SDKB 2010 held in Bordeaux, France, in July 2010. The 6 revised full papers presented together with an introductory survey by the volume editors were carefully reviewed and selected during two rounds of revision and improvement. The papers reflect a variety of approaches to semantics in data and knowledge bases.

*Formal Description Techniques VII* D. Hogrefe, S. Leue, 2016-01-09 This book presents the latest research in formal techniques for distributed systems, including material on theory, applications, tools, and industrial usage of formal techniques.

**KORSO: Methods, Languages, and Tools for the Construction of Correct Software** Manfred Broy, Stefan Jähnichen, 1995-11-08 This book constitutes the final report of the work carried out in the project KORSO (Korrekte Software) funded by the German Federal Ministry for Research and Technology. KORSO is an evolutionary prototype

oriented project aimed at improving the theoretical foundations of quality driven software engineering and at implementing known techniques for applications of practical relevance The 21 strictly refereed papers presented are organized in five sections on methods for correctness languages development systems and logical frameworks tools and case studies In addition the preface and introductory paper give valuable background information and a concise state of the art overview

*ZUM '95: The Z Formal Specification Notation* Jonathan P. Bowen, 1995-08-23 This book presents the proceedings of the 9th International Conference of Z Users ZUM 95 held in Limerick Ireland in September 1995 The book contains 34 carefully selected papers on Z using Z applications of Z proof testing industrial usage object orientation animation of specification method integration and teaching formal methods Of particular interest is the inclusion of an annotated Z bibliography listing 544 entries While focussing on Z by far the most commonly used formal method both in industry and application the volume is of high relevance for the whole formal methods community

*ZUM '98: The Z Formal Specification Notation* Jonathan P. Bowen, Andreas Fett, Michael G. Hinchey, 1998-09-16 1 In a number of recent presentations most notably at FME 96 one of the foremost scientists in the field of formal methods C A R Hoare has highlighted the fact that formal methods are not the only technique for producing reliable software This seems to have caused some controversy not least amongst formal methods practitioners How can one of the founding fathers of formal methods seemingly denounce the field of research after over a quarter of a century of support This is a question that has been posed recently by some formal methods skeptics However Prof Hoare has not abandoned formal methods He is reiterating 2 albeit more radically his 1987 view

that more than one tool and notation will be required in the practical industrial development of large scale complex computer systems and not all of these tools and notations will be or even need be formal in nature Formal methods are not a solution but rather one of a selection of techniques that have proven to be useful in the development of reliable complex systems and to result in hardware and software systems that can be produced on time and within a budget while satisfying the stated requirements After almost three decades the time has come to view formal methods in the context of overall industrial scale system development and their relationship to other techniques and methods We should no longer consider the issue of whether we are pro formal or anti formal but rather the degree of formality if any that we need to support in system development This is a goal of ZUM 98 the 11th International Conference of Z Users held for the first time within continental Europe in the city of Berlin Germany

*Functional Programming, Glasgow 1993* John T. O'Donnell, Kevin Hammond, 2012-12-06 The Functional Programming Group at the University of Glasgow was started in 1986 by John Hughes and Mary Sheeran Since then it has grown in size and strength becoming one of the largest computing science research groups at Glasgow and earning an international reputation The first Glasgow Functional Programming Workshop was organised in the summer of 1988 Its purpose was threefold to provide a snapshot of all the research going on within the group to share research ideas between Glaswegians and colleagues in the U K and abroad and to introduce research students to the art of writing and presenting

papers at a semi formal but still local and friendly conference The success of the first workshop has led to an annual series  
Rothesay 1988 Fraserburgh 1989 Ullapool 1990 Portree 1991 Ayr 1992 and the workshop reported in these proceedings Ayr  
1993 Most participants wrote a paper that appeared in the draft proceedings distributed at the workshop and each draft  
paper was presented by one of the authors The papers were all refereed by several other participants at the workshop both  
internal and external and the programme committee selected papers for these proceedings Most papers have been revised  
twice based firstly on feedback at the workshop and secondly using the referee reports

**Incompleteness and Uncertainty in Information Systems** V.S. Alagar,S. Bergler,F.Q. Dong,2012-12-06 The Software Engineering and  
Knowledgebase Systems SOFfEKS Research Group of the Department of Computer Science Concordia University Canada  
organized a workshop on Incompleteness and Uncertainty in Information Systems from October 8 9 1993 in Montreal A  
major aim of the workshop was to bring together researchers who share a concern for issues of incompleteness and  
uncertainty The workshop attracted people doing fundamental research and industry oriented research in databases software  
engineering and AI from North America Europe and Asia The workshop program featured six invited talks and twenty other  
presentations The invited speakers were Martin Feather University of Southern California Information Systems Institute Laks  
V S Lakshmanan Concordia University Ewa Orlowska Polish Academy of Sciences z Pawlak Warsaw Technical University and  
Academy of Sciences F Sadri Concordia University A Skowron Warsaw University The papers can be classified into four  
groups rough sets and logic concept analysis databases and information retrieval and software engineering The workshop  
opened with a warm welcome speech from Dr Dan Taddeo Dean Faculty of Engineering and Computer Science The first day s  
presentations were in rough sets databases and information retrieval Papers given on the second day centered around  
software engineering and concept analysis Sufficient time was given in between presentations to promote active interactions  
and numerous lively discussions At the end of two days the participants expressed their hope that this workshop would be  
continued

**Z User Workshop, Cambridge 1994** J.P. Bowen,J.A. Hall,2012-12-06 This volume contains papers from the  
Eighth Z User Meeting to be held at the University of Cambridge from 29 30 June 1994 The papers cover a wide range of  
issues associated with Z and formal methods with particular reference to practical application These issues include education  
standards tool support and interaction with other design paradigms such as consideration of real time and object oriented  
approaches to development Among the actual topics covered are the formal specification in Z of Defence Standard 00 56  
formal specification of telephone features specifying and interpreting class hierarchies in Z and software quality assurance  
using the SAZ method Z User Workshop Cambridge 1994 provides an important overview of current research into industrial  
applications of Z and will provide invaluable reading for researchers postgraduate students and also potential industrial  
users of Z

**6th Refinement Workshop** David Till,2012-12-06 The Sixth Refinement Workshop took place at City  
University in London from 5th to 7th January 1994 The present volume includes all of the papers which were submitted and

accepted for presentation together with two papers by invited speakers The workshops in the series have generally occurred at one year intervals but in this last case a two year period had elapsed These workshops have established themselves as an important event in the calendar for all those who are interested in progress in the underlying theory of refinement and in the take up by industry of the methods supported by that theory One of the proposed themes of the sixth workshop was the reporting of successful adoption in industry of rigorous software development methods The programme committee was perhaps slightly disappointed by the response from industry to the call in this respect However the recent period could be characterised as one of consolidation when those companies which have made the decision that formal development methods are important to their business have been adopting them where appropriate and finding them to be worthwhile On the other hand the difficult economic climate which exists in most parts of the developed world is perhaps not the context within which companies still dubious about the benefits are going to opt for making major changes in their working practices

**Interfaces to Database Systems (IDS94)** Peter H. Sawyer, 2013-11-11 A brief survey of the major DBMS and HeI conference proceedings over the past 10 years will reveal isolated pockets of research in database user interfaces but little sense of being swept along with the general advances in DBMS technology and HeI New data models have evolved to meet the needs of different application domains persistent programming languages are blurring the traditional distinction between data definition and application programming languages distribution and inter operability have become issues as have the storage of heterogeneous media types yet it is still rare to read of the HeI issues raised by these technological innovations being expressly addressed and rarer still to find recognition of the usability problems with longer established database technologies There are at least two reasons why this should be surprising Database systems are not like other computer systems existing both as back ends to other applications and as stand alone data stores they are typically slow deal with very large volumes of data and can involve all sorts of security confidentiality and even cooperability issues Databases are everywhere Perhaps only word processors and spread sheets are more widespread In addition as business cultures change and personal computing continues to mould expectations end users find themselves interacting increasingly closely with database systems

*Algebra of Communicating Processes* Alban Ponse, Christiaan Verhoef, Sebastiaan F.M. van Vlijmen, 2012-12-06 ACP the Algebra of Communicating Processes is an algebraic approach to the study of concurrent processes initiated by Jan Bergstra and Jan Willem Klop in the early eighties These proceedings comprise the contributions to ACP94 the first workshop devoted to ACP The workshop was held at Utrecht University 16-17 May 1994 These proceedings are meant to provide an overview of current research in the area of ACP They contain fifteen contributions The first one is a classical paper on ACP by J A Bergstra and J W Klop The Algebra of Recursively Defined Processes and the Algebra of Regular Processes Report IW 235-83 Mathematical Centre Amsterdam 1983 It serves as an introduction to the remainder of the proceedings and indeed as a general introduction to ACP An extended abstract of this paper is published

under the same title in the ICALP 84 proceedings Of the remaining contributions three were submitted by the invited speakers and the others were selected by the programme committee As for the presentations Jos Baeten Rob van Glabbeek Jan Friso Groote and Frits Vaandrager were each invited to deliver a lecture A paper relating to Frits Vaandrager's lecture has already been submitted for publication elsewhere and is not therefore included in these proceedings Gabriel Ciobanu one of our guests gave an impression of his work in an extra lecture Furthermore ten presentations were given on the basis of selected papers

*Rough Sets, Fuzzy Sets and Knowledge Discovery* Wojciech P. Ziarko, 2012-12-06 The objective of this book is two fold Firstly it is aimed at bringing together key research articles concerned with methodologies for knowledge discovery in databases and their applications Secondly it also contains articles discussing fundamentals of rough sets and their relationship to fuzzy sets machine learning management of uncertainty and systems of logic for formal reasoning about knowledge Applications of rough sets in different areas such as medicine logic design image processing and expert systems are also represented The articles included in the book are based on selected papers presented at the International Workshop on Rough Sets and Knowledge Discovery held in Banff Canada in 1993 The primary methodological approach emphasized in the book is the mathematical theory of rough sets a relatively new branch of mathematics concerned with the modeling and analysis of classification problems with imprecise uncertain or incomplete information The methods of the theory of rough sets have applications in many sub areas of artificial intelligence including knowledge discovery machine learning formal reasoning in the presence of uncertainty knowledge acquisition and others This spectrum of applications is reflected in this book where articles although centered around knowledge discovery problems touch a number of related issues The book is intended to provide an important reference material for students researchers and developers working in the areas of knowledge discovery machine learning reasoning with uncertainty adaptive expert systems and pattern classification

**Neural Computation and Psychology** Leslie S. Smith, Peter J.B. Hancock, 2013-06-29 The papers that appear in this volume are refereed versions of presentations made at the third Neural Computation and Psychology Workshop held at Stirling University Scotland from 31 August to 2 September 1994 The aim of this series of conferences has been to explore the interface between Neural Computing and Psychology this has been a fruitful area for many researchers for a number of reasons The development of Neural Computation has supplied tools to researchers in Cognitive Neuroscience allowing them to look at possible mechanisms for implementing theories which would otherwise remain black box techniques These theories may be high level theories concerned with interaction between a number of brain areas or low level describing the way in which smaller local groups of neurons behave Neural Computation techniques have allowed computer scientists to implement systems which are based on how real brains appear to function providing effective pattern recognition systems We can thus mount a two pronged attack on perception The papers here come from both the Cognitive Psychology viewpoint and from the Computer Science viewpoint it is a mark of the growing maturity of the interface between the two subjects that

they can understand each other's papers and the level of discussion at the workshop itself showed how important each camp considers the other to be. The papers here are divided into four sections reflecting the primary areas of the material.

**Asynchronous Digital Circuit Design** Graham Birtwistle, Alan Davis, 2013-04-17 As the costs of power and timing become increasingly difficult to manage in traditional synchronous systems, designers are being forced to look at asynchronous alternatives. Based on reworked and expanded papers from the VII Banff Higher Order Workshop, this volume examines asynchronous methods which have been used in large circuit design, ranging from initial formal specification to more standard finite state machine based control models. Written by leading practitioners in the area, the papers cover many aspects of current practice, including practical design, silicon compilation, and applications of formal specification. It also includes a state of the art survey of asynchronous hardware design. The resulting volume will be invaluable to anyone interested in designing correct asynchronous circuits which exhibit high performance or low power operation. Functional Programming, Glasgow 1994 Kevin Hammond, David N. Turner, Patrick M. Sansom, 2013-03-09 This is the proceedings of the seventh annual workshop held by the Glasgow Functional Programming Group. The purpose of the workshop is to provide a focus for new research, to foster research contacts with other functional language researchers, and to provide a platform for research students to develop their presentation skills. As in previous years, we spent three days closeted together in a pleasant seaside town, isolated from normal work commitments. We were joined by colleagues from other universities, both UK and abroad, and from industry. Workshop participants presented a short talk about their current research work and produced a paper which appeared in a draft proceedings. These papers were then reviewed and revised in the light of discussions at the workshop and the referees' comments. A selection of those revised papers, the majority of those presented at the workshop, appears here in the published proceedings. The papers themselves cover a wide span, from theoretical work on algebras and bisimilarity to experience with a real world medical application. Unsurprisingly, given Glasgow's track record, there is a strong emphasis on compilation techniques and optimisations, and there are also several papers on concurrency and parallelism. Persistent Object Systems Malcolm Atkinson, David Maier, Veronique Benzaken, 2012-12-06 The Sixth International Workshop on Persistent Object Systems was held at Les Mazets des Roches near Tarascon, Provence, in southern France, from the fifth to the ninth of September 1994. The attractive context and autumn warmth greeted the 53 participants from 12 countries spread over five continents. Persistent object systems continue to grow in importance. Almost all significant uses of computers to support human endeavours depend on long-lived and large-scale systems. As expectations and ambitions rise, so the sophistication of the systems we attempt to build also rises. The quality and integrity of the systems and their feasibility for supporting large groups of co-operating people depends on their technical foundation. Persistent object systems are being developed which provide a more robust and yet simpler foundation for these persistent applications. The workshop followed the tradition of the previous workshops in the series, focusing on the design, implementation, and use



of persistent object systems in particular and persistent systems in general There were clear signs that this line of research is maturing as engineering issues were discussed with the aid of evidence from operational systems The work presented covered the complete range of database facilities transactions concurrency distribution integrity and schema modification There were examples of very large scale use one involving tens of terabytes of data Language issues particularly the provision of reflection continued to be important **East/West Database Workshop** Johann Eder, Leonid A.

Kalinichenko, 2013-06-29 This volume results from the four day scientific Second International East West Database Workshop which took place 25th 28th September 1994 in Klagenfurt Austria continuing a series of workshops started in Kiev in 1990 Lecture Notes in Computer Science No 504 Springer Next Generation Information System Technology The aims of this workshop are twofold first to provide a forum for the presentation and in depth discussion of scientific achievements in the field of advanced databases that will effectively improve the building and use of future information systems second to establish and increase communication between research communities which were formerly separated and therefore had only rare opportunities to interact It should establish contacts between researchers from the East and from the West to make exchange of ideas possible and to trigger collaborations However it is not only political borders which change their perviousness as a result of or giving rise to new autonomies or new possibilities for interaction and collaboration The same happens with the borders between scientific areas in particular in the dynamically evolving areas of computer science Databases and programming languages are integrated in object oriented databases database and information retrieval technology form together the basis for modern multimedia information systems Furthermore the borders between different information systems change and allow various forms of collaboration while maintaining different degrees of autonomy Heterogeneous and distributed databases are enabling technologies for these systems

## Decoding **Semantics Of Specification Languages Sosl**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Semantics Of Specification Languages Sosl**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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