

PROGRESS IN THEORETICAL COMPUTER SCIENCE

Franck van Breugel

**Comparative
Metric Semantics of
Programming Languages**

**Nondeterminism and
Recursion**

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Comparative Metric Semantics Of Programming Languages Nondeterminism And Recursion

Gabriel Ciobanu



Comparative Metric Semantics Of Programming Languages Nondeterminism And Recursion:

Comparative Metric Semantics of Programming Languages Franck van Breughel, 2012-12-06 During the last three decades several different styles of semantics for programming languages have been developed This book compares two of them the operational and the denotational approach On the basis of several examples we show how to define operational and denotational semantic models for programming languages Furthermore we introduce a general technique for comparing various semantic models for a given language We focus on different degrees of nondeterminism in programming languages Nondeterminism arises naturally in concurrent languages It is also an important concept in specification languages In the examples discussed the degree of nondeterminism ranges from a choice between two alternatives to a choice between a collection of alternatives indexed by a closed interval of the real numbers The former arises in a language with nondeterministic choices A real time language with dense choices gives rise to the latter We also consider the nondeterministic random assignment and parallel composition both couched in a simple language Besides nondeterminism our four example languages contain some form of recursion a key ingredient of programming languages

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Solving Higher-Order Equations Christian Prehofer, 2012-12-06 This monograph develops techniques for equational reasoning in higher order logic Due to its expressiveness higher order logic is used for specification and verification of hardware software and mathematics In these applications higher order logic provides the necessary level of abstraction for concise and natural formulations The main assets of higher order logic are quantification over functions or predicates and its abstraction mechanism These allow one to represent quantification in formulas and other variable binding constructs In this book we focus on equational logic as a fundamental and natural concept in computer science and mathematics We present calculi for equational reasoning modulo higher order equations presented as rewrite rules This is followed by a systematic development

from general equational reasoning towards effective calculi for declarative programming in higher order logic and A calculus
This aims at integrating and generalizing declarative programming models such as functional and logic programming In
these two prominent declarative computation models we can view a program as a logical theory and a computation as a
deduction *Continuous Lattices and Domains* G. Gierz, K. H. Hofmann, K. Keimel, J. D. Lawson, M. Mislove, D. S.

Scott, 2003-03-06 Table of contents **Neural Networks and Analog Computation** Hava Siegelmann, 1998-12-01 The
theoretical foundations of Neural Networks and Analog Computation conceptualize neural networks as a particular type of
computer consisting of multiple assemblies of basic processors interconnected in an intricate structure Examining these
networks under various resource constraints reveals a continuum of computational devices several of which coincide with
well known classical models On a mathematical level the treatment of neural computations enriches the theory of
computation but also explicated the computational complexity associated with biological networks adaptive engineering tools
and related models from the fields of control theory and nonlinear dynamics The material in this book will be of interest to
researchers in a variety of engineering and applied sciences disciplines In addition the work may provide the base of a
graduate level seminar in neural networks for computer science students FM 2009: Formal Methods Ana

Cavalcanti, Dennis Dams, 2009-11-04 th FM 2009 the 16 International Symposium on Formal Methods marked the 10th an
versary of the First World Congress on Formal Methods that was held in 1999 in Toulouse France We wished to celebrate
this by advertising and organizing FM 2009 as the Second World Congress in the FM series aiming to once again bring
together the formal methods communities from all over the world The statistics displayed in the table on the next page
include the number of countries represented by the Programme Committee members as well as of the authors of submitted
and accepted papers Novel this year was a special track on tools and industrial applications Submissions of papers on these
topics were especially encouraged but not given any special treatment It was just as hard to get a special track paper
accepted as any other paper What we did promote however was a discussion of how originality contribution and soundness
should be judged for these papers The following questions were used by our Programme Committee **Mathematical**

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Approaches to Semantics of Programming Languages* Gabriel Ciobanu, 1994 DAIMI PB., 1984 On the Relating
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Meyer,Erik Peter de Vink,1989

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