1.	Record Nr.	UNISA996465524703316
	Titolo	Applied Semantics [[electronic resource]] : International Summer School, APPSEM 2000, Caminha, Portugal, September 9-15, 2000. Advanced Lectures / / edited by Gilles Barthe, Peter Dybjer, Luis Pinto, João Saraiva
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2002
	ISBN	3-540-45699-6
	Edizione	[1st ed. 2002.]
	Descrizione fisica	1 online resource (VIII, 536 p.)
	Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2395
	Disciplina	005.13/1
	Soggetti	Semantics
		Programming languages (Electronic computers)
		Computer logic
		Programming Languages, Compilers, Interpreters
		Logics and Meanings of Programs
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
	Nota di contenuto	An Introduction to Dependent Type Theory -- Monads and Effects -- Abstract Machines, Control, and Sequents -- Normalization and Partial Evaluation -- Computing with Real Numbers -- The Join Calculus: A Language for Distributed Mobile Programming -- An Introduction to Functional Nets -- Operational Semantics and Program Equivalence -- Using, Understanding, and Unraveling the OCaml Language From Practice to Theory and Vice Versa.
	Sommario/riassunto	This book is based on material presented at the international summer school on Applied Semantics that took place in Caminha, Portugal, in September 2000. We aim to present some recent developments in programming language research, both in semantic theory and in implementation, in a series of graduate-level lectures. The school was sponsored by the ESPRIT Working Group 26142 on Applied Semantics (APPSEM),whichoperatedbetweenApril1998andMarch2002.The purpose of this working group was to bring together leading reseachers, both in semantic theory and in implementation, with the speci?c aim of

improving the communication between theoreticians and practitioners. TheactivitiesofAPPSEMwerestructuredintonineinterdisciplinarythemes: A: Semantics for object-oriented programming B: Program structuring C: Integration of functional languages and proof assistants D: Veri?cation methods E: Automatic program transformation F: Games, sequentiality, and abstract machines G: Types and type inference in programming H: Semantics-based optimization I: Domain theory and real number computation These themes were identi?ed as promising for pro?table interaction between semantic theory and practice, and were chosen to contribute to the following general topics: – description of existing programming language features; – design of new programming language features; – implementation and analysis of programming languages; – transformation and generation of programs; – veri?cation of programs. The chapters in this volume give examples of recent developments covering a broad range of topics of interest to APPSEM.