Record Nr.	UNISA996465660003316
Titolo	Category Theory and Computer Science [[electronic resource]] : Paris, France, September 3-6, 1991. Proceedings / / edited by David H. Pitt, Pierre-Louis Curien, Samson Abramsky, Andrew Pitts, Axel Poigne, David E. Rydeheard
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1991
ISBN	3-540-38413-8
Edizione	[1st ed. 1991.]
Descrizione fisica	1 online resource (VIII, 304 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 530
Disciplina	005.1
Soggetti	Mathematics
	Computers
	Computer logic
	Mathematical logic
	Programming languages (Electronic computers)
	Software engineering
	Mathematics, general
	I heory of Computation
	Logics and Meanings of Programs
	Programming Languages Compilers Interpreters
	Software Engineering
Lingua di pubblicazione	
Englia di pubblicazione	Matorialo a stampa
	Materiale a stampa
Note generali	Bibliographic Level Mode of Issuance: Monograph
NOTA OI CONTENUTO	Local variables and non-interference in algol-like languages Categories of information systems Collapsing graph models by preorders Linear logic and interference control Higher dimensional word problem BCK-formulas having unique proofs Proof nets and coherence theorems A modular approach to denotational semantics Programs in partial algebras — A categorical approach Tail recursion from universal invariants A direct proof

1.

	of the intuitionistic Ramsey Theorem Constructions and predicates Relating models of impredicative type theories Two results on set-theoretic polymorphism An algebra of graphs and graph rewriting Dataflow networks are fibrations Applications of the calculus of trees to process description languages.
Sommario/riassunto	The papers in this volume were presented at the fourth biennial Summer Conference on Category Theory and Computer Science, held in Paris, September3-6, 1991. Category theory continues to be an important tool in foundationalstudies in computer science. It has been widely applied by logicians to get concise interpretations of many logical concepts. Links between logic and computer science have been developed now for over twenty years, notably via the Curry-Howard isomorphism which identifies programs with proofs and types with propositions. The triangle category theory - logic - programming presents a rich world of interconnections. Topics covered in this volume include the following. Type theory: stratification of types and propositions can be discussed in a categorical setting. Domain theory: synthetic domain theory develops domain theory internally in the constructive universe of the effective topos. Linear logic: the reconstruction of logic based on propositions as resources leads to alternatives to traditional syntaxes. The proceedings of the previous three category theory conferences appear as Lecture Notes in Computer Science Volumes 240, 283 and 389.