Record Nr.	UNISA996465794003316
Titolo	Programming Languages and System Architectures [[electronic resource]] : International Conference, Zurich, Switzerland, March 2 - 4, 1994. Proceedings / / edited by Jürg Gutknecht
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1994
ISBN	3-540-48356-X
Edizione	[1st ed. 1994.]
Descrizione fisica	1 online resource (CCCLX, 348 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 782
Disciplina	005.13
Soggetti	Architecture, Computer
	Electronic circuits
	Software engineering
	Computer programming
	Programming languages (Electronic computers)
	Computer System Implementation
	Software Engineering/Programming and Operating Systems
	Programming Techniques
	Software Engineering
	Programming Languages, Compilers, Interpreters
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Interconnecting computers: Architecture, technology, and economics Languages and interactive software development Mechanized support for stepwise refinement Hardware and software: The closing gap On computing power Increasing memory bandwidth for vector computations The advantages of machine-dependent global optimization Dependence-conscious global register allocation Type test elimination using typeflow analysis Where concurrent processes originate High-level abstractions for efficient concurrent systems Language and architecture paradigms as object classes: A unified approach towards multiparadigm programming Engineering a programming language: The type and class system of Sather OPAL:

1.

	Design and implementation of an algebraic programming language Architectural issues in spreadsheet languages Technological steps toward a software component industry Distributed high-level module binding for flexible encapsulation and fast inter-modular optimization Is Oberon as simple as possible? A smaller object- oriented language based on the concept of module type On the essence of Oberon Adding concurrency to the Oberon system.
Sommario/riassunto	Programming languages and system architectures are at the frontiers of two different worlds. The conference on which this book is based was an adventure in a land where the two worlds - the formal world of algorithms and the physical world of electronic circuits - interact. The participants explored this land under the guidance of internationally renowned researchers such as Butler W. Lampson, Susan Graham, Jan L. A. van de Snepscheut, and C.A.R. Hoare, all of whom gave invited papers. The volume includes these papers together with sixteen session papers. Subjects of special interest include: programing language design and history, programming environments, programming methods, operating systems, compiler construction, and innovative system architectures.