Record Nr.	UNINA9910450501403321			
Titolo	A half-century of automata theory [[electronic resource]] : celebration and inspiration / / editors, A. Salomaa, D. Wood, S. Yu			
Pubbl/distr/stampa	River Edge, N.J., : World Scientific, c2001			
ISBN	1-281-95168-4 9786611951689 981-281-016-1			
Descrizione fisica	1 online resource (164 p.)			
Altri autori (Persone)	SalomaaArto WoodDerick <1940-> YuSheng			
Disciplina	511.3			
Soggetti	Machine theory Algebra Electronic books.			
Lingua di pubblicazione	Inglese			
Formato	Materiale a stampa			
Livello bibliografico	Monografia			
Note generali	Description based upon print version of record.			
Nota di bibliografia	Includes bibliographical references.			
Nota di contenuto	CONTENTS; Preface; Hazard Algebras (Extended Abstract)Abstract); 1 Introduction; 2Transients; 3 Change-Counting Algebra; 4 Counting Changes to a Threshold; 5Circuit Simulations; 6 Extensions of BooleanFunctions; 7 Complexity Issues; 8 Conclusions; ReferencesUndecidability and Incompleteness Results in Automata Theory1 Introduction; 2 Basic Concepts and II2-Completeness; 3Undecidability and Incompleteness Results; 4 Representation Independent Incompleteness Results; 5 Incomplete Languages; 6 Minimal Automata andIncompleteness; 7 Succinctness Results8 ConclusionReferences8 ConclusionReferences; 2 Beginnings of Automata Theory; 1 Introduction; 2 Beginnings of Automata Theory; 3 ExternalChanges Impacting Future Directions; 3 External			

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	; 4 Conclusions	; References	; Forty Years of		
	Formal Power Series	in Automata Theory			
	; 1 Introduction				
	2 Continuous monoid	2 Continuous monoids and semirings			
	Automata and the Theorem of Kleene		; 4		
	Algebraic systems and pushdown automata				
	; 5 Principal cones of algebraic power series				
	; 6 Decidability questi	ons	; References ;		
	Playing Infinite Game	s in Finite Time	; 1		
	Infinite games	; 2 The score fu	nction		
	3 Theoretical results	about scoring	4 When		
	to end the play ; 5 Finding playable games				
	; 6 A specific suggestion ; References ;				
	Gene Assembly in Ciliates: Computing by Folding and Recombination				
	; Introduction.	; 1 Preliminaries.	; 2 DNA		
	molecules: structure and notation.				
	3 Gene assembly in c	ciliates.			
Sommario/riassunto	This volume gathers I	ectures by 8 distinguish	ned pioneers of automata		
	theory, including two Turing Award winners. In each contribution, the				
	early developments of automata theory are reminisced about and future				
	directions are suggested. Although some of the contributions go into				
	rather intriguing technical details, most of the book is accessible to a				
	wide audience interested in the progress of the age of computers. The				
	book is a must for professionals in theoretical computer science and				
	related areas of mathematics. For students in these areas it provides an				
	exceptionally deep view at the begi				
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