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Autore	Claudel, Paul
Titolo	Positions et propositions / Paul Claudel
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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
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Altri autori (Persone)	SalomaaArto WoodDerick <1940-> YuSheng
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Nota di contenuto	CONTENTS ; Preface ; Hazard Algebras (Extended Abstract) ; 1 Introduction ; 2 Transients ; 3 Change-Counting Algebra

; 4 Counting Changes to a Threshold	; 5
Circuit Simulations	; 6 Extensions of Boolean
Functions	; 7 Complexity Issues
; 8 Conclusions	; References
Undecidability and Incompleteness Results in Automata Theory	
1 Introduction	; 2 Basic Concepts and II2-Completeness; 3
Undecidability and Incompleteness Results	
; 4 Representation Independent Incompleteness Results	
; 5 Incomplete Languages	; 6 Minimal Automata and
Incompleteness	; 7 Succinctness Results
8 Conclusion	References ; Automata Theory: Its
Past and Future	; 1 Introduction
; 2 Beginnings of Automata Theory	; 3 External
Changes Impacting Future Directions	
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Formal Power Series in Automata Theory	
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Automata and the Theorem of Kleene	; 4
Algebraic systems and pushdown automata	
; 5 Principal cones of algebraic power series	
; 6 Decidability questions	; References ;
Playing Infinite Games in Finite Time	; 1
Infinite games	; 2 The score function
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 ciliates.	

Sommario/riassunto

This volume gathers lectures by 8 distinguished 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 begin-