
Contents

1	The Early Development of Programming Languages	1
2	Backus Normal Form versus Backus Naur Form	95
3	Teaching ALGOL 60	99
4	ALGOL 60 <i>Confidential</i>	103
5	SMALGOL-61	115
6	Man or Boy?	123
7	A Proposal for Input-Output Conventions in ALGOL 60	127
8	The Remaining Trouble Spots in ALGOL 60	155
9	SOL — A Symbolic Language for Systems Simulation	175
10	A Formal Definition of SOL	191
11	The Science of Programming Languages	205
12	Programming Languages for Automata	237
13	A Characterization of Parenthesis Languages	263
14	Top-Down Syntax Analysis	285
15	On the Translation of Languages from Left to Right	327
16	Context-Free Multilanguages	361
17	Semantics of Context-Free Languages	377
18	Examples of Formal Semantics	401
19	The Genesis of Attribute Grammars	423
20	A History of Writing Compilers	439
21	RUNCIBLE — Algebraic Translation on a Limited Computer	457
22	Computer-Drawn Flowcharts	471
23	Notes on Avoiding ‘go to’ Statements	495
24	An Empirical Study of FORTRAN Programs	507
25	Efficient Coroutine Generation of Constrained Gray Sequences	545
	Index	575