

Meetings Ahead

P R O G R A M

SYMPOSIUM ON THEORY OF COMPUTING

Marina del Rey - May 5, 6, 7, 1969

Opening Remarks

SESSION 1. May 5, 1969, Morning

Chairman - Jeffrey D. Ullman, Bell Telephone Laboratories

*Context Sensitive Immediate Constituent Analysis - Context Free Languages Revisited*

P. S. Peters, University of Texas and

R. W. Ritchie, University of Washington

*Abstract Families of Processors*

G. Rose, Case Western Reserve University

*Quasi Realtime Languages*

R. V. Book and S. Greibach, Harvard University

*The Inherent Ambiguity Partial Algorithm Problem for Context Free Languages*

J. Ullian, Washington University

*Abstract Families of Deterministic Languages*

W. J. Chander, University of Southern California

*Intercalation Theorems for Stack Languages*

W. Ogden, Case Western Reserve University

SESSION 2. May 5, 1969, Afternoon

Chairman - Juris Hartmanis, Cornell University

*On Effective Procedures for Speeding Up Algorithms*

M. Blum, University of California

*On Classes of Computable Functions*

S. Basu, Carnegie-Mellon University

*On Minimal Program Complexity Measures*

D. W. Loveland, Carnegie-Mellon University

*Classes of Computable Functions Defined by Bounds on Computation*

E. M. McCreight and A. R. Meyer, Carnegie-Mellon University

*Complexity Classes of Recursive Functions and the Existence of Complexity Gaps*

A. Borodin, Cornell University

*Speed-Ups by Changing the Order in Which Sets are Enumerated*

P. R. Young, Purdue University

SESSION 3. May 6, 1969, Morning

Chairman - Michael A. Harrison, University of California

*Translations on a Context Free Grammar*

A. V. Aho and J. D. Ullman, Bell Telephone Laboratories

*Free Groups and Regular Expressions*

P. Johansen, Massachusetts Institute of Technology

*Transformations and Translations from the Point of View of Generalized Finite Automata Theory*

J. W. Thatcher, IBM Corporation

*Context Free Grammars on Trees*

W. C. Rounds, Case Western Reserve University

*Computability over Arbitrary Fields*

G. T. Herman, IBM, United Kingdom

S. D. Isard, University of Sussex

*Languages in General Algebras*

C. D. Shepard, Defense Research Tele-Communications Establishment

SESSION 4. May 6, 1969, Afternoon

Chairman - Robert W. Floyd, Stanford University

*Properties of Deterministic Top Down Grammars*

D. J. Rosenkrantz and R. E. Stearns, General Electric Company

*Some Properties of Precedence Languages*

M. J. Fischer, Carnegie-Mellon University

*Efficient LR(1) Processor Construction*

A. Korenjak, RCA Laboratories

*Formalization of Properties of Recursively Defined Functions*

Z. Manna and A. Pnueli, Stanford University

*Formal Models for Some Standard Features of Programming Languages*

H. P. Zeiger, University of Colorado

*Towards a Theory of Semantics and Compilers for Programming Languages*

E. Blum, University of Southern California

SESSION 5. May 7, 1969, Morning

Chairman - Albert R. Meyer, Carnegie-Mellon University

*Variations on Pushdown Machines*

S. A. Cook, University of California

*Pushdown Store Machines and Real-Time Computation*

S. N. Cole, IBM Corporation

*Deterministic Simulation of Nondeterministic Turing Machines*

W. J. Savitch, University of California

*The Logical Complexity of Geometric Properties in the Plane*

L. Hodes, National Institutes of Health

*On the Problem of Computational Complexity of Arithmetic Functions*

A. Avizienis, University of California at Los Angeles

*A Unifying Framework for the Theory of Iterative Arrays of Machines*

H. Yamada, University of Pennsylvania,

S. Amoroso, Stevens Institute of Technology and

E. Lieblein, U. S. Army Electronics Command

*On the Computation Time of Certain Classes of Boolean Functions*

P. Spira, University of California