Meetings Ahead

PROGRAM

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