

3) The program was too heavy for a bidisciplinary conference. It needed more talk-time.

In summing up, the conference did not succeed in attaining its ambitious aims, but for a first attempt it did well.

Derick Wood  
McMaster University

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#### 15TH ANNUAL SYMPOSIUM ON SWITCHING AND AUTOMATA THEORY

The 15th Annual Symposium on Switching and Automata Theory was held in New Orleans, Louisiana, on October 14-16, 1974. A report on the meeting is planned for the next issue. The program is indicated below.

Monday, October 14 - Session I - 9:30 a.m. - 12:30 p.m.

Chairman: Arnold L. Rosenberg, IBM Watson Research Center

A Two Dimensional Generating System Modeling Growth by Binary Cell Division  
by J. W. Carlyle, S. A. Greibach, and A. Paz, University of California,  
Los Angeles.

On the Power of Multiplication in Random Access Machines  
by Juris Hartmanis and Janos Simon, Cornell University.

Coffee Break - 10:30 a.m. - 11:00 a.m.

The Equivalence Problem for Regular Expressions Over One Letter is Elementary  
by Jose Lucas Rangel, University of Wisconsin.

P-Complete Problems and Approximate Solutions  
by Sartaj Sahni and Teofilo Gonzalez, University of Minnesota.

Approximation Algorithms for the Traveling Salesperson Problem  
D. J. Rosenkrantz, R. E. Stearns, and P. M. Lewis, General Electric  
Company.

Luncheon - 12:45 p.m.

Session II - 2:00 p.m. - 5:00 p.m.

Chairman - Ashok K. Chandra, IBM Watson Research Center

Relationships Between Monadic Recursion Schemes and Deterministic Context-Free Languages by Emily P. Friedman, Harvard University.

Recursive Schemes, Algebraic Trees and Deterministic Languages  
by Bruno Courcelle, IRIA.

Initial Algebra Semantics  
by J. A. Goguen, University of California, Los Angeles, and J. W. Thatcher,  
IBM Watson Research Center.

Coffee Break - 3:30 p.m. - 4:00 p.m.

Axiomatic Equivalence of Programs with Structured Variables  
by C. M. Hoffman and L. H. Landweber, University of Wisconsin.

Ianov Schemes Augmented by a Pushdown Memory  
by Nobuki Tokura, Tadao Kasami, and Shukichi Furuta, Osaka University.

Dinner - 6:00 p.m.

Business Meeting - 8:00 p.m.

Tuesday, October 15 - Session III - 9:30 a.m. - 12:30 p.m.  
Chairman - Ian Munro, University of Waterloo

On Hash-Coding Algorithms for Partial-Match Retrieval  
by Ronald L. Rivest, IRIA.

Bounds on the Complexity of the Maximal Common Subsequence Problem  
by A. V. Aho, Bell Labs, D. S. Hirschberg, and J. D. Ullman, Princeton University.

Coffee Break - 10:30 a.m. - 11:00 a.m.

Bounds on Selection Networks  
by Andrew Chi-Chih Yao, University of Illinois.

On the Computational Complexity of Finding the Maxima of a Set of Vectors  
by H. T. Kung, Carnegie-Mellon University.

On Self-Organizing Sequential Search Heuristics  
by Ronald L. Rivest, IRIA.

Operations on Sparse Relations and Efficient Algorithms for Grammar Problems  
by Harry B. Hunt III, Thomas G. Szymanski, and Jeffrey D. Ullman, Princeton University.

Luncheon - 12:45 p.m.

Session IV - 2:00 p.m. - 5:00 p.m.  
Chairman - Sheldon Akers, General Electric Company

Minimization of Fanout in Switching Networks  
by John P. Hayes, University of Southern California.

Combinatorial Complexity of Monotone Switching Circuits  
by Edmund A. Lamagna and John E. Savage, Brown University.

On Boolean Functions Having Maximal Number of Subfunction Classes  
by Pawel Kerntopf, Stanford University.

Coffee Break - 3:30 p.m. - 4:00 p.m.

A Comparative Study of Models of Parallel Computation  
by R. J. Lipton, L. Snyder, Yale University; and Y. Zalcstein, State University of New York at Stony Brook.

The Recursive Equivalence of the Reachability Problem and the Liveness Problem  
for Petri Nets and Vector Addition Systems by Michael Hack, M.I.T.

Wednesday, October 16 - Session V - 9:30 a.m. - 12:30 p.m.  
Chairman - Juris Hartmanis, Cornell University

Non-Complex Sequences: Characterizations and Examples  
by Robert P. Daley, University of Chicago.

Two Way Deterministic Pushdown Automaton Languages and Some Open Problems  
In The Theory of Computation by Zvi Galil, Cornell University.

Coffee Break - 10:30 a.m. - 11:00 a.m.

"Natural" Properties of Flowchart Complexity Measures  
by Theodore P. Baker, Florida State University.

Skeletal LR Parsing  
by Alan J. Demers, Princeton University.

Characterization of Context-Free Grammatical Families  
by Armin Cremers and Seymour Ginsburg, University of Southern California.

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C O M P U T E R    S C I E N C E    C O N F E R E N C E

February 18-20, 1975  
Statler-Hilton Hotel  
Washington, D. C.

Announcing the third annual COMPUTER SCIENCE CONFERENCE sponsored by many Computer and Information Science Departments of universities and industrial organizations throughout the United States and Canada: A MEETING PRIMARILY DEVOTED TO SHORT CURRENT RESEARCH REPORTS (15 minutes including discussion). The response to the first two conferences in Columbus, Ohio and Detroit, Michigan clearly demonstrated the need for a third similar conference. Reports of research are invited from any area of the computer and information sciences. An attempt will be made to schedule all appropriate papers. Submissions from laboratories, institutes, industry and universities are particularly desired. Thesis and dissertation research reports are also welcome. Abstracts only will be required. No full texts will be available. The printed program will be prepared directly from the abstracts submitted so abstracts must be in camera ready form. The original and two duplicates of the abstracts must be received by DECEMBER 1, 1974. Registration fees will be low. A number of invited papers will be presented. There will be a special luncheon meeting for computer science department chairmen. There will also be an extensive textbook exhibit. An employment register will be available to assist computer science professionals at all levels to find employment. Special forms, which can be obtained from the address below, must be filled out by prospective employers and employees for this employment register.

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