Conference Record
of the
1980 LISP Conference

Papers presented at
Stanford University
Stanford California
August 25-27, 1980

Sponsored by
Stanford University
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The LISP Company, (T. C.)
The 1980 LISP Conference
Stanford, August 25-27, 1980

Invited Address: 9:00 to 9:30, August 25, 1980
John McCarthy, Stanford University

Session 1: 9:30 to 10:20, August 25, 1980
Chaired by Richard Fateman, U. C. Berkeley

Symbolic Computing with and without LISP
J. Campbell, University of Exeter and J. Fitch, University of Bath

Pros and CONS - Multics Emacs: A Commercial Text-processing System in LISP
B. Greenberg, Honeywell

Session 2: 10:45 to 12:00, August 25, 1980
Chaired by Daniel Friedman, Indiana University

Explicit Parallelism in LISP-like Languages
G. Prin, University of Pisa

Continuation-Based Multiprocessing
M. Wand, Indiana University

MULTI - A LISP Based Multiprocessing System
D. McKay and S. Shapiro, SUNY at Buffalo

Session 3: 1:30 to 3:10, August 25, 1980
Chaired by Carolyn Talcott, Stanford University

The Function-Class
T. Kurokawa, Japan

A Constructive Alternative to Axiomatic Data Type Definitions
R. Cartwright, Cornell University

A Semantic Comparison of LISP and SCHEME
S. Muchnick, UC Berkeley and U. Pleban, University of Kansas

MODLISP
J. Davenport and R. Jenks, IBM

Session 4: 3:45 to 5:00, August 25, 1980
Chaired by Alan Kay, Xerox PARC

Extending Object Oriented Programming in Smalltalk
I. Goldstein and D. Bobrow, Xerox PARC

A System of Communicating Residential Environments
E. Sandewall, H. Sorenson, and C. Stromberg, Linkoping

A Session with Tinker: Interleaving Program Testing with Program Writing
H. Lieberman and C. Hewitt, MIT

Session 5: 9:00 to 10:15, August 26, 1980
Chaired by David Wise, Indiana University

Computing with Text-Graphics Forms
F. Lakin, Xerox

Design of the APIARY for Actor Systems
C. Hewitt, MIT

Address Memory Management for a Gigantic LISP Environment
J. White, MIT
Session 6: 10:45 to 12:00, August 26, 1980  Chaired by Carl Hewitt, MIT

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