SLP '86 Overview
Third IEEE-CS Symposium on
Logic Programming

September 21-25, 1986
Westin Hotel Utah
Salt Lake City, Utah

Chairpersons
Conference: Gary Lindstrom, U. of Utah; Program: Robert M. Keller, U. of Utah; Local Arrangements: Thomas C. Henderson, U. of Utah; Tutorials: George Luger, U. of New Mexico; Exhibits: Ross Overbeek, Argonne National Laboratory

Program Committee
Francois Bancilhon, MCC; William Kornfeld, Quintus; John Conery, U. of Oregon; Al Despain, U.C. Berkeley; Herve Gallaire, ECRC, Rikio Onai, NTT, Seif Haridi, SICS, Ross Overbeek, Argonne, Lynette Hirschman, SDC/Burroughs, Mark Stickel, SRI, Peter Kogge, IBM, Sten Ake Tamlund, Uppsala University

Tutorials
Concurrent, on Monday, September 22
Introduction to AI Programming in Prolog George Luger, University of New Mexico
Building Prolog Interpreters David Scott Warren, SUNY, Stony Brook
Theory of Parallelism, with Applications to Logic Programming Neil Ostlund, Romas Aelianunas, University of Waterloo

Invited speakers
W.W. Bledsoe, Some Thoughts on Proof Discovery
Sten-Ake Tamlund, Logic Programming — A Logical View

Panel session
William Kornfeld, moderator:
Logic Programming for Systems Programming

Exhibits
The exhibit area includes displays by publishers, equipment manufacturers, and software houses. The list of exhibitors includes: Arity, Addison-Wesley, Elsevier, Expert Systems, Logicware, Overbeek Enterprises, Prolog Systems, Quintus, and Symbolics.

Papers
Tuesday, September 23 through Thursday, September 25
The Logic of Tensed Statements in English—an Application of Logic Programming
Peter Ohstrom, University of Aalborg, Nils Klarlund, University of Aarhus
Incremental Flavor-Mixing of Meta-Interpreters for Expert System Construction
Leon Sterling and Randall D. Beer, Case Western Reserve University
The Phonng Philosopher’s Problem or Logic Programming for Telecommunications Applications
J.L. Armstrong, N.A. Elshiewy, and R. Virding, Ericsson Telecom
EDUCE—A Marriage of Convenience: Prolog and a Relational DBMS
Jorge Bocca, ECRC, Munich
Paging Strategy for Prolog Based Dynamic Virtual Memory
Mark Ross, Royal Melbourne Institute of Technology, K. Ramamohanarao, University of Melbourne
A Logical Treatment of Secondary Storage
Anthony J. Kusalik, University of Saskatchewan, Ian T. Foster, Imperial College, London
Compiling Control
Maurice Bruynooghe, Danny De Schreye, Bruno Krekels, Katholieke Universiteit Leuven
Automatic Mode Inference for Prolog Programs
Saumya K. Debray, David S. Warren, SUNY at Stony Brook
IDEAL: an Ideal DEductive Applicative Language
Pier Giorgio Bosco, Elio Giovannetti, C.S.E.L.T., Torino
A Theory of Modules for Logic Programming
Dale Miller, University of Pennsylvania
Building-In Classical Equality Into Prolog
P. Hodnott, E.W. Elocok, The University of Western Ontario
Negation as Failure Using Tight Derivations for General Logic Programs
Allen Van Gelder, Stanford University
Characterisation of Terminating Logic Programs
Thomas Vasak, The University of New South Wales, John Potter, New South Wales Institute of Tech.
An Execution Model for Committed-Choice Non-Deterministic Languages
Jim Crammond, Heriot-Watt University
Timestamped Term Representation in Implementing Prolog
Heikki Mannila, Eski Ukkonen, University of Helsinki

IEEE COMPUTER SOCIETY

IEEE THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
Refutation Methods for Horn Clauses with Equality Based on E-Unification
Jean H. Gallier and Stan Raatz, University of Pennsylvania

An Algorithm for Unification in Equational Theories
Alberto Martelli, Gianfranco Rossi, Università di Torino

An Implementation of Narrowing: The RITE Way
Alan Josephson and Nachum Dershowitz, University of Illinois at Urbana-Champaign

Selecting the Backtrack Literal in the AND Process of the AND/OR Process Model
Nam S. Woo and Kwang-Moc Choe, AT&T Bell Laboratories

Distributed Semi-intelligent Backtracking for a Stack-based AND-parallel Prolog
Peter Borgwardt, Tektronix Labs, Doris Rea, University of Minnesota

The Sync Model for Parallel Execution of Logic Programming
Pay-yun Peggy Li and Alain J. Martin, California Institute of Technology

Redundancy In Function-Free Recursive Rules
Jeff Naughton, Stanford University

Performance Evaluation of a Storage Model for OR-Parallel Execution
Andrzej Ciepllewski and Bogumil Hausman, SISC, Stockholm

MAIL: A Memory with a Real-Time Garbage Collector for Implementing Logic Programming Languages
Yves Bekkers, Bernard Canet, Olivier Ridoux, Lucien Ungaro, INRIA/INRIA Rennes

A High Performance LOW RISC Machine for Logic Programming
J.W. Mills, Arizona State University

Register Allocation in a Prolog Machine
Saumya K. Debroy, SUNY at Stony Brook

Garbage Cut for Garbage Collection of Iterative Programs
Jonas Barklund and Hakan Millroth, Uppsala University

Accommodations
The Westin Hotel Utah is a gracious turn of the century hotel with Mobil 4-Star and AAA 5-Star ratings. The Temple Square Hotel, located one city block away, offers basic comforts for budget-conscious attendees.

Transportation
The Official Carrier for SLP '86 is United Airlines, and the Official Travel Agent is Morris Travel (361 West Lowndale Drive, Salt Lake City, Utah 84115, phone 1-800-621-3535). Special airfares are available to SLP '86 attendees. A courtesy limousine is available from Salt Lake International Airport to both symposium hotels, running every half hour from 6:30-23:00. The taxi fare is approximately $10.

Excursion
Wasatch Mtns., Antique Train, Deer Valley Resort, Western Barbeque

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**SLP '86 Symposium and Tutorial Registration Coupon**

Advance symposium and tutorial registration is available until September 1, 1986. No refunds will be made after that date. Send a check or money order (no currency will be accepted) payable to "Third IEEE Symposium on Logic Programming" to: Third IEEE Symposium on Logic Programming, IEEE Computer Society, 1730 Massachusetts Avenue, N.W., Washington, D.C. 20036-1900.

<table>
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<tr>
<th>Your Name</th>
<th>Affiliation</th>
<th>Full mailing address</th>
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IEEE Computer Society membership number (if applicable)

Educational institution (for students)

Circle applicable items:

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<tr>
<th>Symposium Registration: Advance On-Site</th>
<th>IEEE Computer Society members $185 $215</th>
<th>Non-members $230 $270</th>
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<tbody>
<tr>
<td>Full-time student members $50 $50</td>
<td>Full-time student non-members $65 $65</td>
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<tr>
<td>Retired members $50 $50</td>
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**Tutorial Registration:** (circle which tutorial: "Lugent, "Women, or "Ostlund")

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<tr>
<th>Advance On-Site</th>
<th>IEEE Computer Society members $140 $170</th>
<th>Non-members $175 $215</th>
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Total enclosed ____________________

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**SLP '86 Hotel Reservation Coupon**

Mail or Call: Phone 801-531-1000, Telex 389434
Westin Hotel Utah
Main and South Temple Streets
Salt Lake City UT 84111

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<th>Your Name</th>
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Circle applicable items:

**Room Rates (circle choice):**

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<tr>
<th></th>
<th>Westin Hotel Utah</th>
<th>Temple Square Hotel</th>
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<tbody>
<tr>
<td>single room</td>
<td>$60</td>
<td>$30</td>
</tr>
<tr>
<td>double room</td>
<td>$70</td>
<td>$36</td>
</tr>
</tbody>
</table>

A deposit of one night's room or credit card guarantee is required for arrivals after 6 pm.

**Reservation:**

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Reservations must be made mentioning SLP '86 by August 31, 1986 to guarantee these special rates.