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Editors: K.M. George and D.D. Fisher

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General Chair's Message

WAC '89 is the third Workshop on Applied Computing to be held in the region consisting of Arkansas, Kansas, Missouri, Oklahoma and Texas. The objectives of the WAC meetings are:

1) to provide a forum for interchange of ideas among computing specialists from a broad range of disciplines in academia and industry;
2) to provide a quality meeting at a location with reasonable cost; and
3) to provide an opportunity for graduate students to present papers and interact with scientists in the region.

It takes dedication and interest on the part of the participants to make a conference evolve in stature. WAC '89 has the "in cooperation with" status from both ACM and IEEE Computer Society. It also has the support of NSF and MASUA. A regional steering committee is established for this and future WAC workshops. The enthusiasm and interest shown by the authors of papers and the steering committee members indicate that WAC will develop into a well reputed conference.

I wish to thank all of the authors for submitting their papers for WAC '89. Special thanks are due to the program chair, Dr. K.M. George, who has put together a high quality technical program. I also wish to acknowledge the support of the members of the steering committee.

D.D. Fisher, Ph.D.
WAC '89 General Chair
Oklahoma State University
Program Chair's Message

It is my pleasure to present the technical program for the Workshop on Applied Computing 1989. Authors were required to submit full papers for review. Fifty-seven papers were received. Each paper was reviewed by at least two referees. In order to facilitate the presentation of ongoing research, papers were accepted at two levels -- full and short papers. I am confident that a high quality program is presented here. I thank all the authors for supporting the workshop by submitting papers.

This program is made possible by the help of many. In particular, I am very grateful to the referees, some of whom were burdened with the task of reviewing several papers. I also wish to acknowledge the generous help of the steering committee in enlisting referees. The conference general chair, Dr. D.D. Fisher, was always there when I needed counselling and support. Lise Patton from the Arts and Sciences Extension Office, Oklahoma State University, has been extremely helpful in organizing the conference and this program. I also wish to thank Dr. G.E. Hedrick and Dr. Mansur Samadzadeh for their help during times of need.

Finally, this year's program has the "in cooperation with" status from both the ACM and the IEEE Computer Society. It is also partially supported by the NSF and MASUA.

K.M. George, Ph.D.
Program Chair
Oklahoma State University
### List of Referees

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hal Berghel</td>
<td>The University of Arkansas</td>
</tr>
<tr>
<td>John Chandler</td>
<td>Oklahoma State University</td>
</tr>
<tr>
<td>Susan Ennis</td>
<td>Amoco Production TRC</td>
</tr>
<tr>
<td>D.D. Fisher</td>
<td>UT Tyler</td>
</tr>
<tr>
<td>Michael Folk</td>
<td>NCSR</td>
</tr>
<tr>
<td>K.M. George</td>
<td>Oklahoma State University</td>
</tr>
<tr>
<td>Alan Goerner</td>
<td>University of Missouri - Kansas City</td>
</tr>
<tr>
<td>Ronald Goforth</td>
<td>The University of Arkansas</td>
</tr>
<tr>
<td>David Gustasson</td>
<td>Kansas State University</td>
</tr>
<tr>
<td>William Hankley</td>
<td>Kansas State University</td>
</tr>
<tr>
<td>Ray Hashemi</td>
<td>University of Arkansas - Little Rock</td>
</tr>
<tr>
<td>G.E. Hedrick</td>
<td>Oklahoma State University</td>
</tr>
<tr>
<td>M.L. Hines</td>
<td>University of Missouri - Kansas City</td>
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<tr>
<td>A. D. Kulkarni</td>
<td>UT Tyler</td>
</tr>
<tr>
<td>Vijay Kumar</td>
<td>University of Missouri - Kansas City</td>
</tr>
<tr>
<td>S. Lakshmivaraahan</td>
<td>University of Oklahoma</td>
</tr>
<tr>
<td>H. Lu</td>
<td>Oklahoma State University</td>
</tr>
<tr>
<td>Blayne B. Mayfield</td>
<td>Oklahoma State University</td>
</tr>
<tr>
<td>David Miller</td>
<td>Oklahoma State University</td>
</tr>
<tr>
<td>Gaylord Northrop</td>
<td>University of Arkansas - Little Rock</td>
</tr>
<tr>
<td>Rex Page</td>
<td>Amoco Production TRC</td>
</tr>
<tr>
<td>Jim Peters</td>
<td>Kansas State University</td>
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<tr>
<td>Jerry P. Place</td>
<td>University of Missouri - Kansas City</td>
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<tr>
<td>Raju Ramaswamy</td>
<td>University of Missouri - Kansas City</td>
</tr>
<tr>
<td>Richard Rankin</td>
<td>The University of Arkansas</td>
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<tr>
<td>Rama Reddy</td>
<td>University of Arkansas - Little Rock</td>
</tr>
<tr>
<td>Tom Reyes</td>
<td>Amoco Production TRC</td>
</tr>
<tr>
<td>David Roach</td>
<td>The University of Arkansas</td>
</tr>
<tr>
<td>Hossien Saiedian</td>
<td>Kansas State University</td>
</tr>
<tr>
<td>David Sallach</td>
<td>The University of Arkansas</td>
</tr>
<tr>
<td>Mansur Samadzadeh</td>
<td>Oklahoma State University</td>
</tr>
<tr>
<td>John Talburt</td>
<td>University of Arkansas - Little Rock</td>
</tr>
<tr>
<td>Adrian Tang</td>
<td>University of Missouri - Kansas City</td>
</tr>
<tr>
<td>George Thomas</td>
<td>Amoco Production TRC</td>
</tr>
<tr>
<td>Glen Thompson</td>
<td>Amoco Production TRC</td>
</tr>
<tr>
<td>Elizabeth Unger</td>
<td>Kansas State University</td>
</tr>
<tr>
<td>Samuel P. Uselton</td>
<td>University of Tulsa</td>
</tr>
<tr>
<td>Appie van de Liefvoort</td>
<td>University of Missouri - Kansas City</td>
</tr>
<tr>
<td>Roger Wainwright</td>
<td>University of Tulsa</td>
</tr>
<tr>
<td>Virgil Wallentine</td>
<td>Kansas State University</td>
</tr>
<tr>
<td>Charles Wesley Ford</td>
<td>University of Arkansas - Little Rock</td>
</tr>
<tr>
<td>Gregg Wonderly</td>
<td>AT&amp;T Bell Laboratories</td>
</tr>
</tbody>
</table>
### Authors

<table>
<thead>
<tr>
<th>Name</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Allen</td>
<td>193</td>
</tr>
<tr>
<td>Morteza Anvari</td>
<td>107</td>
</tr>
<tr>
<td>Jonathan Asuru</td>
<td>29</td>
</tr>
<tr>
<td>Hal Berghel</td>
<td>194</td>
</tr>
<tr>
<td>Jim Bolin</td>
<td>185</td>
</tr>
<tr>
<td>Randy Brown</td>
<td>177</td>
</tr>
<tr>
<td>Yang Cai</td>
<td>162</td>
</tr>
<tr>
<td>Nancy Calhoun</td>
<td>48</td>
</tr>
<tr>
<td>Chung-I Chiang</td>
<td>216</td>
</tr>
<tr>
<td>Yow-Ruey Chien</td>
<td>104</td>
</tr>
<tr>
<td>S.K. Dhall</td>
<td>131, 140</td>
</tr>
<tr>
<td>J.C. Diázx</td>
<td>134</td>
</tr>
<tr>
<td>Don Fisher</td>
<td>80, 90</td>
</tr>
<tr>
<td>Marcel Gandriau</td>
<td>114</td>
</tr>
<tr>
<td>Alan Goerner</td>
<td>210</td>
</tr>
<tr>
<td>Rajeev Gopal</td>
<td>55</td>
</tr>
<tr>
<td>Daniel R. Greening</td>
<td>170</td>
</tr>
<tr>
<td>M. Grammatikakis</td>
<td>131</td>
</tr>
<tr>
<td>Steven C. Hansen</td>
<td>201</td>
</tr>
<tr>
<td>Lein Harn</td>
<td>97, 229</td>
</tr>
<tr>
<td>Ray Hashemi-Nassab</td>
<td>107</td>
</tr>
<tr>
<td>George E. Hedrick</td>
<td>29</td>
</tr>
<tr>
<td>Mary Lou Hines</td>
<td>72</td>
</tr>
<tr>
<td>Timothy Hines</td>
<td>14</td>
</tr>
<tr>
<td>Samuel Hsieh</td>
<td>145</td>
</tr>
<tr>
<td>David Huang</td>
<td>229</td>
</tr>
<tr>
<td>A.J. Hurst</td>
<td>23</td>
</tr>
<tr>
<td>Krishna Kavi</td>
<td>7</td>
</tr>
<tr>
<td>Mustafa Kamal</td>
<td>130</td>
</tr>
<tr>
<td>M. Kazerouni-Zand</td>
<td>90</td>
</tr>
<tr>
<td>Thomas Kiesler</td>
<td>97</td>
</tr>
<tr>
<td>Man C. Kong</td>
<td>162</td>
</tr>
<tr>
<td>Arun Kulkarni</td>
<td>185</td>
</tr>
<tr>
<td>Vijay Kumar</td>
<td>86, 210, 223</td>
</tr>
<tr>
<td>S. Lakshmirarahan</td>
<td>131, 140</td>
</tr>
<tr>
<td>Gregory Larsen</td>
<td>107</td>
</tr>
<tr>
<td>K. Lee</td>
<td>134</td>
</tr>
<tr>
<td>Y. Liang</td>
<td>140</td>
</tr>
</tbody>
</table>
Tiong-Hu Lian ........................................ 80
Lester Lipsky ........................................ 156
Huizhu Lu ........................................... 80
Christiane Massoutie .............................. 114
Blayne Mayfield .................................... 121
R.A. McBride ......................................... 42
Donna Mooney ........................................ 205
Jerry Place ........................................... 169, 210, 223
J.F. Peters ............................................ 35
Lin Ling Polican ....................................... 86
Shirley Pomeranz .................................... 62
Raju Ramaswamy .................................... 104, 216
Richard Rankin ....................................... 22, 194
Tom C. Reyes ......................................... 34
Hossein Saiedian ..................................... 1
A.S.M. Sajeev ......................................... 23
Frederick Sheldon .................................... 7
Charles Bradley Slaten ......................... 4
Jerry Stach ........................................... 169
Nardyan Subramaniam ............................ 106
John Talburt .......................................... 107, 205
Aby Tehranipour ..................................... 156
George Thomas ....................................... 34
Glenn Thompson ..................................... 34
Elizabeth Unger ..................................... 1, 14, 42, 48, 72, 105, 145, 201
Samuel P. Uselton ................................. 177
Appie van de Liefvoort ......................... 65, 156, 210
Maarten van Swaay ................................ 145
Alan Wexelblat ...................................... 170
Ralph Wilkerson .................................... 121
George Whitson ..................................... 185
K.W. Wong ............................................ 35, 105
Joseph Wrobel ....................................... 193
Cathy Wu ............................................. 185
Gi Chul Yang ........................................ 223
Yan-Guan Zhao ...................................... 71
Table of Contents

Software Engineering:
1. Design Principles of A Specification Methodology for Office Systems:
   Hossein Saeedian, Elizabeth Unger: Kansas State University 1

2. A New Software Reliability Model for Estimating Failure Rate Due to Residual Software Defects:
   Frederick T. Sheldon and Krishna Kavi: The University of Texas at Arlington 7

3. Learning Lines-of-Code from Similar Development Efforts:
   Timothy R. Hines: University of Missouri-Kansas City; Elizabeth Unger: Kansas State University 14

4. Translating From Formal Specifications To High Level Languages Using PROLOG:
   Richard Rankin: University of Arkansas 22

Languages:
5. Access Control Through Capabilities In A Programming Language:
   A.S.M. Sajeev and A.J. Hurst: Monash University 23

6. A Directed Graph For Intermediate Code Representation:
   Jonathan M. Asuru and George E. Hedrick: Oklahoma State University 29

7. Implementation of a Multi-Language Query Compiler for a Heterogenous Multi Database System:
   Tom C. Reyes, George F. Thomas, and Glenn R. Thompson: Amoco Production TRC 34

8. An Implementation of a Procedural Language for Representing Turing Machines:
   Charles Bradley Slaten: AT&T Bell Laboratories 41

Expert Systems:
9. Ruled-Based Active Message System:
   R.A. McBride: University of South Dakota; K.W. Wong, J.F. Peters, E.A. Unger: Kansas State University 42

10. PREFER: Small Group Decision Support System Tool:
    Nancy J. Calhoun and Elizabeth A. Unger: Kansas State University 48

11. Computer Application in a Heterogeneous Environment - A Report on the In Vitro Screening System:
    Rajeev Gopal: Vanderbilt University 55

Numerical Computation:
12. An Application of an Interactive Method for Nonlinear Elliptic Eigenvalue Problems:
    Shirley B. Pomeranz: The University of Tulsa 62

13. A Note On The Inverse Of A Tridiagonal Matrix:
    Appie van de Liefvoort: University of Missouri-Kansas City 65

14. An Equation Solver by Tree Transformation in Pascal:
    Yan-Guang Zhao: Southwestern Oklahoma State University 71

Data Base and Data Structures:
15. Object-Oriented Databases: An Overview and A Proposal:
    Mary Lou A. Hines: University of Missouri-Kansas City; Elizabeth A. Unger: Kansas State University 72

16. Implementation and Evaluation of Grid and BANG
    (Balance and Nested Grid) File Structures:
    Tiong-Hu Lian, Don Fisher
    Hui-shu Lu: Oklahoma State University 80

17. Managing Concurrent Transactions on Extendible Hasing:
    Vijay Kumar and Ling Ling Policar: University of Missouri-Kansas City 86

18. Deletions on Persistent B-Trees:
    M. Kazemouni-Zand: Langston University; D.D. Fisher: Oklahoma State University 90

Networks:
19. A Variation on the Rabin Public-Key Encryption Scheme Incorporating Coding Technique:
    Lein Harn and Thomas Kiesler: University of Missouri-Kansas City 97

20. A Key Management Mechanism In OSI Environment:
    Raju Ramaswamy and Yaw-Ruey Chien: University of Missouri-Kansas City 104

21. An Architecture for Active Message Systems:
    K.W. Wong and E.A. Unger: Kansas State University 105

22. Comparison of Different Algorithms for a Matrix Estimation Problem:
    Narayanan Subramaniam: University of Missouri-Kansas City 106
Expert Systems II:
23. A Rule-Based System for Visitation Scheduling Within the Periodic Class of
Asynchronous Parallel Systems:
Ray Hashemi-Nassab: University of Arkansas; Morteza Anvari: California State University
Gregory Larsen: Emerson Electric Company; John Talburt: University of Arkansas 107
24. Classes and Types in Logic for Knowledge Representation:
Marcel Gandriau and Christiane Massoutie: Langages et Systèmes Informatiques 114
25. Term Symmetry and the E-Completion Process:
Blythe E. Mayfield: Oklahoma State University; Ralph Wilkerson:
University of Missouri - Rolla 121
Mustafa Kamal: Central Missouri State University 130

Parallel Processing:
27. Experiments on Probabilistic Routing for Generalized Hypercube Architectures:
M. Grammatikakis, S. Lakshmivaranhan and S.K. Dhall: University of Oklahoma 131
28. Performance Evaluation of Schedule:
I.C. Diaz and K. Lee: University of Tulsa 134
29. A New Class of Parallel Algorithms for Finding Connected Components
on Machines with Bit-Vector Operations:
Y. Liang, S.K. Dhall and S. Lakshmivaranhan: University of Oklahoma 140
30. A Concurrency Method: Prototype Implementation:
Elizabeth A. Unger, Samuel Hsieh and Maarten van Swaay: Kansas State University 145

Potpourri:
31. Residual Lifetimes as a Function of Queue Length for M/G/1/N Loops:
Aby Tehranipour: University of Vermont; Lester Lipsky: University of Connecticut;
Apple van de Liefvoort: University of Kansas 156
32. A Fast Polylog Parallel Algorithm For The Longest Common Subsequence Problem:
Yang Cai and Man C. Kong: University of Kansas 162
33. A Heuristic Model for Hardware Evaluation under Unity, Delay and Workload Constraints:
Jerry Such and Jerry Place: University of Missouri-Kansas City 169
34. Experiences with Cooperative Moderation of a Usenet Newsgroup:
Alan D. Wexelblat and Daniel R. Greening: MCC Software Technology Program 170

Image Processing or Graphics:
35. Graphics Object Description Language (GODcL):
Samuel P. Useiton and Randy A. Brown: University of Tulsa 177
36. Some Applications of the Parallel Distributed Processing Models:
Arun Kulkarni, George Whitson, Jim Bolin and Cathy Wu: University of Texas at Tyler 185
37. A Binary Vision System for Printed Circuit Board Missing Parts Inspection:
Joseph S. Wrobel and David K. Allen: University of Arkansas 193

Expert Systems III:
38. Automating 'Phonemic' Analysis:
Hal Berghel and Richard Rankin: University of Arkansas 194
39. The Abstract Intelligent Entity as a Means of Comparison of Biological Organisms
and Computer Processes and Their Respective Systems:
Steven C. Hansen and Elizabeth A. Unger: Kansas State University 201
40. Determination of Strongly Connected Components in Abstract Theauri
by The Method of Quartets:
John R. Talburt and Donna Mooney: University of Arkansas at Little Rock 205

Networks II:
41. Modeling Database Concurrency Control Mechanisms Using Stochastic Predicate-Event Nets:
Vijay Kumar, Alan A. Goerner, Jerry P. Place and Apple van de Liefvoort:
University of Missouri - Kansas City 210
42. Placement of Data Integrity Security Services in OSI Architecture:
Raju Ramaswamy and Chung-I Chiang: University of Missouri - Kansas City 216
43. An Efficient Algorithm for Mutual Exclusion in Computer Networks:
Jerry Place, Vijay Kumar and Gi Chul Yang: University of Missouri - Kansas City 223
44. An Authenticated Public-Key Distribution Scheme for a Distributed Network:
Lehn Harn and David Huang: University of Missouri - Kansas City 229

* Denotes short paper