RESUME

OSCAR H. IBARRA

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EDUCATION

Ph.D., 1967, Electrical Engineering, University of California, Berkeley

M.S., 1965, Electrical Engineering, University of California, Berkeley

B.S., 1962, Electrical Engineering, University of the Philippines

PROFESSIONAL EXPERIENCE

Professor	Department of Computer Science University of California at Santa Barbara	July 1999 -
Professor and Chair	Department of Computer Science University of California at Santa Barbara	July 1997 - June 1999
Professor	Department of Computer Science University of California at Santa Barbara	November 1989 - June 1997
Professor	Department of Computer Science University of Minnesota	September 1978 - October 1989
Associate Professor	Department of Computer Science University of Minnesota	1973-August 1978
Visiting Professor	Department of Engineering Sciences (Computer Science Program) College of Engineering University of the Philippines (supported by NSF Scientists and Engineers in Economic Development Program)	September 1975 - June 1976 (sabbatical leave)

Assistant Professor	Department of Computer Science University of Minnesota	1969-1973
Assistant Professor	Department of Electrical Eng. and Computer Sciences University of California, Berkeley	1967-1969
Research Assistant	Department of Electrical Eng. and Computer Sciences University of California, Berkeley	1964-1967
Instructor	Department of Electrical Eng. University of the Philippines	1962-1963

PROFESSIONAL ACTIVITIES

Honors and Awards:

- Fellow, John Simon Guggenheim Memorial Foundation, 1984-1985
- Fellow, Minnesota Supercomputer Institute, September 1987-
- Fellow, Institue of Electrical and Electronics Engineers (IEEE), January 1992-
- Fellow, Ammerican Association for the Advancement of Science (AAAS), September 1993-
- Outstanding UCSB Computer Science Professor, 1993
- Fellow, Association for Computing Machinery (ACM), March 1995-
- First ITL Infosys Distinguished Speaker Award, 1996
- Keynote Speaker, Third International Conference on High Performance Computing, 1996
- Barr Systems Distinguished Lecturer, University of Florida, 1997
- Keynote Speaker, Twelfth International Conference on Parallel and Distributed Computing Systems, 1999
- 2001 IEEE Computer Society's Harry M. Goode Memorial Award, 2001
- Recipient of the Japan Society for the Promotion of Science (JSPS) Invitation Fellowship for Research in Japan for senior scientists, October-November 2002. Host university: Japan Advanced Institute of Science and Technology (JAIST).
- Invited Speaker at the Nihon University's symposium, "Frontiers of Theoretical Computer Science", celebrating the 100th anniversary of the founding of the College of Humanities and Sciences, Japan, September 27, 2002.
- Recipient of the Philippine-American Academy of Science and Engineering (PAASE) Founder's Lectureship Award in Engineering, presented at the academy's 21st Annual Meeting and Symposium, August 23, 2002, Solomon's Island, Maryland.
- Workshop in Honor of 60th Birthday, "Computer Science: From Theory to Practice, A Workshop on the Occasion of Oscar H. Ibarra's 60th Birthday", August 14, 2002, Singapore.

- Recipient of the "Award of Distinction" for outstanding contributions to computer science, presented by the Computing Society of the Philippines (CSP) during the International Symposium on Parallel Architectures, Algorithms, and Networks (ISPAN'02), Manila, May 23, 2002.
- Recipient of the University of the Philippines Alumni Association (UPAA) distinguished alumnus award: the 2003 Outstanding Professional in the field of Mathematics, Statistics, and Computer Science, June 2003 (http://www.up.edu.ph/oar/carillon/carillon06-03_2.html).
- First P Prize in Membrane Computing, announced during the 2003 Workshop on Membrane Computing, Tarragona, Spain, July 2003.
- Elected member of the European Academy of Sciences (EAS), 2003.
- Included in Thomson ISI (Institute for Scientific Information) database of 230 Highly Cited Researchers in Computer Science (http://www.isihighlycited.com/isi_copy/Comm_news31.htm).
- Keynote Speaker at the 2003 ATVA (International Workshop on Automated Technology for Verification and Analysis), December 10-13, 2003, Taipei, Taiwan.
- Invited Speaker at the 2004 CIAA (Ninth International Conference on Implementation and Application of Automata), July 22-24, Kingston, Ontario, Canada.
- Invited Speaker at the 2005 MFCS (30th International Symposium on Mathematical Foundations of Computer Science), August 29-September 2, Gdansk, Poland.
- Invited Speaker at the 2005 WMC (6th Workshop on Membrane Computing), June 27-29, Vienna, Austria.
- Recipient of a Nokia Visiting Research Fellow scholarship, 2007.
- Recipient of the 2007 Blaise Pascal Medal in Computer Science from the European Academy of Sciences.
- Invited Speaker at the 16th International Symposium on Fundamentals of Computation Theory (FCT 2007), August 27-30, Budapest, Hungary.
- Invitead Speaker at the 2007 Workshop on Reachabilty Problems, July 7-8, Turku, Finland.
- Keynote Speaker at the 9th International Symposium on Parallel Architectures, Algorithms, and Networks (I-SPAN 2008), May 7-9. Sydney, Australia.
- Invited Speaker at the 12th International Conference: Developments in Language Theory (DLT 2008), September 16-18, Kyoto, Japan.

Recent Grants:

- NSF Research Grant ("Collaborative Research: P Systems: Theory and Applications to Modeling and Simulation of Cells"), with A. Paun, 2005-2008, $150,000 (Ibarra's part).
- NSF Research Grant ("Collaborative Research: New Automata Theories for Analyzing Infinite-State and Membrane Computing Systems"), with Z. Dang, 2004-2008, $201,748 (Ibarra's part).
- NSF Research Grant ("Computational Complexity Issues for Privacy in Data Access Mechanisms"), with J. Su, 2004-2005, $42,000.
- NSF Research Grant ("Constraint Databases: Optimization Techniques and Applications"), with J. Su, 2001-2004, $450,000.

- NSF REU Grant ("Research Experience for Undergraduates"), with J. Su, 2001-2002, $10,000.
- NSF Research Grant ("Complexity and Optimization Issues in Constraint Query Languages"), with J. Su, 1997-2001, $341, 395.

Current Editorships:

- Editor-in-Chief, International Journal of Foundations of Computer Science (IJFCS), 1997 -
- Editor, Theoretical Computer Science, 1992 -
- Editor, Journal of Parallel and Distributed Computing, 1992 -
- Editor, Journal of Computing and Information, 1995 -
- Editor, Grammars: A Journal of Mathematical Research on Formal & Natural Languages, 2003 -
- Editor, Mathematics Applied in Science and Technology, 2007 -

Recent Conference Proceedings Edited:

- Proceedings of the International Symposium on Parallel Architectures, Algorithms, and Networks (ISPAN), 2002 (co-editor).
- Proceedings of the International Computing and Combinatorics Conference (COCOON), 2002 (co-editor).
- Proceedings of the International Conference on Application and Implementation of Automata (CIAA), 2003 (co-editor).
- Proceedings of the International Conference on Developments in Language Theory (DLT), 2006.
- Proceedings of the International Conference on Application and Implementation of Automata (CIAA), 2006 (co-editor).

Current Membership in Advisory Committees/Boards:

- Advisory Committee of the IEEE Technical Committee on Parallel Processing
- IFIP Working Group on Cellular Automata

Reviewing and Refereeing Activities:

- Reviews for grant proposals, journals, and conferences/workshops

Memberships in Professional Organizations and Societies:

- Fellow: Institute of Electrical and Electronics Engineers (IEEE), American Association for the Advancement of Science (AAAS), Association for Computing Machinery (ACM), Japan Society for the Promotion of Science (JSPS)
- Member, IEEE Technical Committee on Parallel Processing
- Member, IEEE Computer Society
- Member, ACM Special Interest Group on Algorithms and Computation Theory
- Member, Society for Industrial and Applied Mathematics
- Member, European Association for Theoretical Computer Science

Recent Service to Conferences:

- PC (Program Committee) Chair, 10th International Conference on Developments in Language Theory (DLT'6), 2006.
- PC Co-Chair, 10th International Conference on Implementation and Application of Automata (CIAA'06), 2006.
- PC Chair, 8th International Conference on Implementation and Apllication of Automata (CIAA'03), 2003
- PC Chair, 6th International Symposium on Parallel Architectures, Algorithms, and Networks (ISPAN'02), 2002.
- PC Co-Chair, 8th International Computing and Combinatorics Conference (COCOON'02), 2002.
- PC Vice-Chair, 9th International Conference on High Performance Computing (HiPC'02), 2002.
- PC Vice-Chair, 31st International Conference on Parallel Processing (ICPP'02), 2002.
- Workshop Chair, Annual Workshop on Advances in Parallel and Distributed Computational Models (APDCM), 2000, 2001, 2002, 2003, 2004, 2005, 2006.
- General Co-Chair, International Symposium on Parallel Architectures, Algorithms, and Networks, 2004.
- PC Member: CIAA 2000, 2001, 2002, 2003, 2004, 2005, 2007.
- PC Member: DLT 2004, 2005, 2007.
- PC Member: Workshop on Descriptional Complexity of Formal Systems (DCFS), 2004, 2005, 2006, 2007.
- PC Member: Workshop in Membrane Computing (WMC), 2005, 2006, 2007.
- PC Member, Latin American Theoretical Informatics Symposium, 2002.
- PC Member, 4th International Workshop on Distributed Computing, 2002.
- PC Member, 2003 International Workshop on Automated Technology for Verification and Analysis, 2003, 2004, 2005, 2006.
- Steering Committee Member, Workshop on Bio-Inspired Solutions to Parallel Processing Problems (BioSP3), 2000, 2001, 2002, 2003.
- Steering Committee Member, CIAA (starting in 2003).

Recent Invited/Keynote Lectures and Conference Presentations:

- Presented papers at numerous conferences.
- Gave invited lectures at: Universidad Politecnica de Madrid, Universitat Politechnica de Catalunya (Barcelona, Spain), Rovira i Virgili University (Tarragona, Spain), Rutgers University, University of Massachusetts, and the following universities in Japan: Nihon University, Japan Advanced Institute of Science and Technology, University of Electro-communications, Kyoto University, Kyushu University, Tohoku University, University of Aizu.
- Invited/Keynote Speaker:

- 2003 ATVA (International Workshop on Automated Technology for Verification and Analysis), December 10-13, 2003, Taipei, Taiwan
- 2004 CIAA (Ninth International Conference on Implementation and Application of Automata), July 22-24, Kingston, Ontario, Canada
- 2005 MFCS (30th International Symposium of Mathematical Foundations of Computer Science, Gdansk, Poland, August 29-September 2,2005.
- 2005 WMC (6th Workshop on Membrane Computing), June 27-29, Vienna, Austria.
- 2007 FCT (16th International Symposium on Fundamentals of Computation Theory), August 27-30, Budapest, Hungary.
- 2007 Workshop on Reachabilty Problems, July 7-8, Turku, Finland.
- I-SPAN 2008 (9th International Symposium on Parallel Architectures, Algorithms, and Networks), May 7-9. Sydney, Australia.
- DLT 2008 (2th International Conference: Developments in Language Theory), September 16-18, Kyoto, Japan.

PH.D. STUDENTS

Has graduated 22 Ph.D. students.

RESEARCH

Research Interests:

Design and Analysis of Algorithms, Theory of Computation, Computational Complexity, Parallel Computing, Formal Verification, DNA/Molecular/Membrane Computing

Publications:

Note: In the list of publications that follows, only conference papers starting from 1986 are listed.

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
1)	1967	On the Equivalence of Finite-State Sequential Machine Models	*IEEE Transactions on Electronic Computers,* Vol. 16, 88-90, February, 1967.	Journal
2)	1967	Two-way Pushdown Automata (with J.N. Gray and M.A. Harrison)	*Information and Control,* Vol. 11, 30-70, August, 1967.	Journal
3)	1968	Multi-head and Multi-tape Pushdown Automata (with M.A. Harrison)	*Information and Control,* Vol. 13, 433-470, November, 1968.	Journal
4)	1970	Simple Matrix Languages	*Information and Control,* Vol. 17, 359-394, November, 1970.	Journal
5)	1970	Tape-Bounded Turing Acceptors and Principal AFLS (with R.V. Book, S.A. Greibach, and B. Wegbreit)	*Journal of Computer and System Sciences,* Vol. 4, 622-625, December, 1970.	Journal
6)	1971	Characterizations of Some Tape and Time Complexity Classes of Turing Machines in Terms of Multihead and Auxiliary Stack Automata	*Journal of Computer and System Sciences,* Vol. 5, 88-117, April, 1971.	Journal
7)	1971	Characterizations of Transductions Defined by Abstract Families of Transducers	*Mathematical Systems Theory,* Vol. 5, 271-281, September, 1971.	Journal
8)	1972	A Note Concerning Nondeterministic Tape Complexities	*Journal of the Association for Computing Machinery,* Vol. 19, 608-612, October, 1972.	Journal
9)	1973	On Two-Way Multihead Automata	*Journal of Computer and System Sciences,* Vol. 7, 28-36, February, 1973.	Journal
10)	1973	Controlled Pushdown Automata	*Information Sciences,* Vol. 6, 327-342, 1973.	Journal
11)	1974	Some Results Concerning Automata on Two-Dimensional Tapes (with R.T. Melson)	*International Journal of Computer Mathematics,* Vol. 4, Section A, 269-279, 1974.	Journal
12)	1974	A Hierarchy Theorem for Polynomial Space Recognition	*SIAM Journal on Computing*, Vol. 3, 184-187, September, 1974.	Journal
13)	1975	Hierarchies of Turing Machines with Restricted Tape Alphabet Size (with S.K. Sahni)	*Journal of Computer and System Sciences,* Vol. 11, 56-67, August, 1975.	Journal

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14)	1975	Polynomially Complete Fault Detection Problems (with S.K. Sahni)	*IEEE Transactions on Computers,* Vol. C-24, 242-249, March, 1975.	Journal
15)	1974	A Note on Semi-linear Sets and Bounded-Reversal Multi-head Pushdown Automata	*Information Processing Letters,* Vol. 3, 25-28, July, 1974.	Journal
16)	1975	On 3-Head Versus 2-Head Finite Automata (with C.E. Kim)	*Acta Informatica,* Vol. 4, 193-200, 1975.	Journal
17)	1975	Fast Approximation Algorithms for the Knapsack and Sum of Subset Problems (with C.E. Kim)	*Journal of the Association for Computing Machinery,* Vol. 22, 463-468, October, 1975.	Journal
18)	1976	On Two-Processor Scheduling of One-or Two-Unit Time Tasks with Precedence Constraints (with C.E. Kim)	*Journal of Cybernetics,* Vol. 5, 87-110, 1976.	Journal
19)	1976	Finite Automata with Multiplication (with C.E. Kim and S.K. Sahni)	*Theoretical Computer Science,* Vol. 2, 271-294, September, 1976.	Journal
20)	1977	Bounds for LPT Schedules on Uniform Processors (with T. Gonzalez and S.K. Sahni)	*SIAM Journal on Computing,* Vol. 6, 155-166, March, 1977.	Journal
21)	1977	Heuristic Algorithms for Scheduling Independent Tasks on Nonidentical Processors (with C.E. Kim)	*Journal of the Association for Computing Machinery,* Vol. 24, 280-289, April, 1977.	Journal
22)	1976	A Useful Device for Showing the Solvability of Some Decision Problems (with C.E. Kim)	*Journal of Computer and System Sciences,* Vol. 13, 153-160, October, 1976.	Journal
23)	1978	Reversal-bounded Multicounter Machines and their Decision Problems	*Journal of the Association for Computing Machinery,* Vol. 25, 116-133, January 1978.	Journal
24)	1978	Approximation Algorithms for Certain Scheduling Problems (with C.E. Kim)	*Mathematics of Operations Research,* Vol. 3, 197-204, August, 1978.	Journal
25)	1978	The Unsolvability of the Equivalence Problem for e -Free NGSM's with Unary Input (Output) Alphabet and Applications	*SIAM Journal on Computing,* Vol. 7, 524-532, November, 1978.	Journal
26)	1978	On Two-way Sequential Transductions of Full Semi AFLS	*Theoretical Computer Science,* Vol. 7, 287-309, 1978.	Journal

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27)	1979	Some Decision Problems Concerning Sequential Transducers and Checking Automata (with E.M. Gurari)	*Journal of Computer and System Sciences,* Vol. 18, 18-34, February, 1979.	Journal
28)	1979	An NP-Complete Number-Theoretic Problem (with E.M. Gurari)	*Journal of the Association for Computing Machinery*, Vol. 26, 567-581, July, 1979.	Journal
29)	1979	On the Space Complexity of Recursive Algorithms (with E.M. Gurari)	*Information Processing Letters,* Vol. 8, 267-271, June, 1979.	Journal
30)	1979	Simple Counter Machines and Number-Theoretic Problems (with E.M. Gurari)	*Journal of Computer and System Sciences,* Vol. 19, 145-162, October, 1979.	Journal
31)	1979	Restricted One-Counter Machines with Undecidable Universe Problems	*Mathematical Systems Theory,* Vol. 13, 181-186, 1979.	Journal
32)	1980	Path Systems: Constructions, Solutions, and Applications (with E.M. Gurari)	*SIAM Journal on Computing,* Vol. 9, 348-374, 1980.	Journal
33)	1980	A Note on the Parallel Complexity of Computing the Rank of Order n Matrices (with S. Moran and L.E. Rosier)	*Information Processing Letters,* Vol. 11, 162, 1980.	Journal
34)	1981	The Complexity of the Equivalence Problem for Two Characterizations of Presburger Sets (with E.M. Gurari)	*Theoretical Computer Science,* Vol. 13, 295-314, 1981.	Journal
35)	1981	On Restricted One-Counter Machines (with L. Rosier)	*Mathematical Systems Theory,* Vol. 14, 241-245, 1981.	Journal
36)	1981	The Complexity of the Equivalence Problem for Simple Programs (with E.M. Gurari)	*Journal of the Association for Computing Machinery,* Vol. 28, 535-560, 1981.	Journal
37)	1981	Characterizations of Presburger Functions (with B. Leininger)	*SIAM Journal on Computing,* Vol. 10, 22-39, 1981.	Journal
38)	1981	The Complexity of Decision Problems for Finite-Turn Multicounter Machines (with E.M. Gurari)	*Journal of Computer and System Sciences,* Vol. 22, 220-229, 1981.	Journal
39)	1981	Probabilistic Algorithms and Straight-Line Programs for Some Rank Decision Problems (with S. Moran and L. Rosier)	*Information Processing Letters,* Vol. 12, 227-232, 1981.	Journal

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40)	1981	Deterministic and Probabilistic Algorithms for Maximum Bipartite Matching Via Fast Matrix Multiplication (with S. Moran)	*Information Processing Letters,* Vol. 13, 12-15, 1981.	Journal
41)	1981	On the Decidability of Equivalence for Deterministic Pushdown Transducers (with L. Rosier)	*Information Processing Letters,* Vol. 13, 89-93, 1981.	Journal
42)	1982	Some Simplified Undecidable and NP-hard Problems for Simple Programs (with E.M. Gurari)	*Theoretical Computer Science,* Vol. 17, 55-73, 1982.	Journal
43)	1982	Straight-Line Programs with One Input Variable (with B. Leininger)	*SIAM Journal on Computing,* Vol. 11, 1-14, 1982.	Journal
44)	1982	The Complexity of the Equivalence Problem for Simple Loop-Free Programs (with B. Leininger)	*SIAM Journal on Computing,* Vol. 11, 15-27, 1982.	Journal
45)	1982	(Semi-)Alternating Stack Automata (with E.M. Gurari)	*Mathematical Systems Theory,* Vol. 15, 211-224, 1982.	Journal
46)	1982	On the Complexity of Simple Arithmetic Expressions (with B. Leininger and S. Moran)	*Theoretical Computer Science,* Vol. 19, 17-28, 1982.	Journal
47)	1982	Two-way Counter Machines and Diophantine Equations (with E.M. Gurari)	*Journal of the Association for Computing Machinery,* Vol. 29, 863-873, 1982.	Journal
48)	1982	On Some Decision Problems for RAM Programs (with S. Moran)	*Journal of Computer and System Sciences,* Vol. 24, 69-81, 1982.	Journal
49)	1982	A Generalized Fast Matrix Decomposition Algorithm and Applications (with S. Moran and R. Hui)	*Journal of Algorithms,* Vol. 3, 45-56, 1982.	Journal
50)	1982	2DST Mappings on Languages and Related Problems	*Theoretical Computer Science,* Vol. 19, 219-227, 1982.	Journal
51)	1983	Probabilistic Algorithms for Deciding Equivalence of Straight-line Programs (with S. Moran)	*Journal of the Association for Computing Machinery*, Vol. 30, 217-228, 1983.	Journal
52)	1983	On the Simplification and Equivalence Problems for Straight-line Programs (with B. Leininger)	*Journal of the Association for Computing Machinery*, Vol. 30, 641-656, 1983.	Journal

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53)	1983	On the Zero-Inequivalence Problem for Loop Programs (with B. Leininger)	*Journal of Computer and System Sciences*, Vol. 26, 47-64, 1983.	Journal
54)	1983	On Some Decision Questions Concerning Pushdown Machines	*Theoretical Computer Science,* Vol. 24, 313-322, 1983.	Journal
55)	1983	A Note on Finite-Valued and Finitely Ambiguous Transducers (with E.M. Gurari)	*Mathematical Systems Theory,* Vol. 16, 61-66, 1983.	Journal
56)	1983	On the Control Power of Integer Division (with S. Moran and L. Rosier)	*Theoretical Computer Science,* Vol. 24, 35-52, 1983.	Journal
57)	1983	Some Time-Space Tradeoff Results Concerning Single-Tape and Offline TM's (with S. Moran)	*SIAM Journal on Computing,* Vol. 12, 388-394, 1983.	Journal
58)	1983	On the Space and Time Complexity of Functions Computable by Simple Programs (with T. Chan)	*SIAM Journal on Computing,* Vol. 12, 708-716, 1983.	Journal
59)	1983	On the Finite-Valuedness Problem for Sequential Machines (with T. Chan)	*Theoretical Computer Science,* Vol. 23, 95-101, 1983.	Journal
60)	1983	Simple Programming Languages and Restricted Classes of Turing Machines (with L. Rosier)	*Theoretical Computer Science,* Vol. 26, 197-220, 1983.	Journal
61)	1984	A Note on the Complexity of Program Evaluation (with B. Leininger and L. Rosier)	*Mathematical Systems Theory,* Vol. 17, 85-96, 1984.	Journal
62)	1984	Characterizations and Computational Complexity of Systolic Trellis Automata (with S. Kim)	*Theoretical Computer Science*, Vol. 29, 123-153, 1984.	Journal
63)	1984	A Characterization of Systolic Binary Tree Automata and Applications (with S. Kim)	*Acta Informatica,* Vol. 21, 193-207, 1984.	Journal
64)	1985	Sequential Machine Characterizations of Trellis and Cellular Automata and Applications (with S. Kim and S. Moran)	*SIAM Journal on Computing,* Vol. 14, 426-447, 1985.	Journal
65)	1985	Some Independence Results in Complexity Theory (with S. Moran)	*International Journal of Computer Mathematics*, Vol. 17, 113-122, 1985.	Journal

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66)	1985	Some Results Concerning Linear Iterative (Systolic) Arrays (with S. Kim and M. Palis)	*Journal of Parallel and Distributed Computing*, Vol. 2, 182-218, 1985.	Journal
67)	1985	The Equivalence Problem and Correctness Formulas for a Simple Class of Programs (with L. Rosier)	*Information and Control*, Vol. 65, 18-41, 1985.	Journal
68)	1985	On Space and Time Efficient TM Simulations of Some Restricted Classes of PDA's (with S. Kim and L. Rosier)	*Information and Control*, Vol. 67, 126-143, 1985.	Journal
69)	1985	Fast Parallel Language Recognition by Cellular Automata (with M. Palis and S. Kim)	*Theoretical Computer Science,* Vol. 41, 231-246, 1985.	Journal
70)	1985	On Efficient Recognition of Transductions and Relations (with M. Palis and J. Chang)	*Theoretical Computer Science,* Vol. 39, 89-106, 1985.	Journal
71)	1985	On Simple Programs with Primitive Conditional Statements (with L. Rosier)	*Information and Control,* Vol. 65, 42-62, 1985.	Journal
72)	1985	Some Characterizations of Multihead Finite Automata (with S. Kim and L. Rosier)	*Information and Control,* 67, 114-125, 1985.	Journal
73)	1986	Designing Systolic Algorithms Using Sequential Machines (with S. Kim and M. Palis)	*IEEE Transactions on Computers*, Vol. c-35, 531-542, 1986.	Journal
74)	1986	Iterative Tree Arrays with Logarithmic Depth (with K. Culik II and S. Yu)	*International Journal of Computer Mathematics*, Vol. 20, 187-204, 1986.	Journal
75)	1986	On Pebble Automata (with J. Chang, M. Palis and B. Ravikumar)	*Theoretical Computer Science,* Vol. 44, 111-121, 1986.	Journal
76)	1987	Parallel Parsing on a One-Way Array of Finite-State Machines (with J. Chang and M. Palis)	*IEEE Transactions on Computers,* Vol. c-36, 64-75, 1987.	Journal
77)	1987	On Efficient Simulations of Systolic Arrays by Random-Access Machines (with M. Palis)	*SIAM Journal on Computing,* vol. 16, 367-377, 1987.	Journal

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78)	1987	VLSI Algorithms for Solving Recurrence Equations and Applications (with M. Palis)	*IEEE Transactions on Acoustics, Speech, and Signal Processing*, vol. ASSP-35, 1046-1064, 1987.	Journal
79)	1987	On One-way Cellular Arrays (with T. Jiang)	*SIAM Journal on Computing*, vol. 16, 1135-1154, 1987.	Journal
80)	1987	Some Observations Concerning Alternating Turing Machines Using Small Space (with J. Chang, B. Ravikumar, L. Berman)	*Information Processing Letters*, vol. 25, 1-9, 1987.	Journal
81)	1987	Single Row Routing with Crossover Bound (with D. Du and F. Naveda)	*IEEE Transactions on Computer Aided Design,* Vol. CAD-6, 190-201, 1987.	Journal
82)	1988	Systolic Tree Implementation of Data Structures (with J. Chang, M. Chung and K. Rao)	*IEEE Transactions on Computers*, vol. 37, 727-735, 1988.	Journal
83)	1988	On the Power of One-way Communication (with J. Chang and A. Vergis)	*Journal of the Association for Computing Machinery,* vol. 35, 697-726, 1988.	Journal
84)	1988	Two-dimensional Iterative Arrays: Characterizations and Applications (with M. Palis)	*Theoretical Computer Science,* vol. 57, 47-86, 1988.	Journal
85)	1988	On Two-Dimensional Via Assignment for Single-Row Routing (with D. Du and F. Naveda)	*IEEE Transactions on Computers*, vol. 37, 721-727, 1988.	Journal
86)	1988	Relating the Power of Cellular Arrays to their Closure Properties (with T. Jiang)	*Theoretical Computer Science*, vol. 57, 225-238, 1988.	Journal
87)	1988	Two-Dimensional Convolution on the Pyramid Computer (with J. Chang, T. Pong, and S. Sohn)	*IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 10, 590-593, 1988.	Journal
88)	1988	Sublogarithmic-space Turing Machines, Nonuniform Space Complexity, and Closure Properties (with B. Ravikumar)	*Mathematical Systems Theory*, vol. 21, 1-17, 1988.	Journal
89)	1988	Some Subclasses of Context-Free Languages in NCˆ1 (with T. Jiang and B. Ravikumar)	*Information Processing Letters*, vol. 29, 111-117, 1988.	Journal
90)	1989	Optimal Simulation of Tree Arrays by Linear Arrays (with T. Jiang)	*Information Processing Letters*, vol. 30, 295-302, 1989.	Journal

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91)	1989	On Iterative and Cellular Tree Arrays (with T. Jiang)	*Journal of Computer and System Sciences*, vol. 38, no. 3, 452-473, 1989.	Journal
92)	1989	Efficient Simulations of Simple Models of Parallel Computation by Time-Bounded Alternating TMs and Space-Bounded TMs (with J. Chang and M. Palis)	*Theoretical Computer Science*, vol. 68, 19-36, 1989.	Journal
93)	1991	Parallel Recognition and Parsing on the Hypercube (with T. Pong and S. Sohn)	*IEEE Transactions on Computers*, vol. 40, 764-770, 1991.	Journal
94)	1991	Learning Regular Languages from Counterexamples (with T. Jiang)	*Journal of Computer and System Sciences*, vol. 43, 299-316, 1991.	Journal
95)	1989	Relating the Type of Ambiguity of Finite Automata to Succinctness of their Representation (with B. Ravikumar)	*SIAM Journal on Computing*, vol. 18, 1263-1282, 1989.	Journal
96)	1990	String Processing on the Hypercube (with T. Pong and S. Sohn)	*IEEE Transactions on Acoustics, Speech, and Signal Processing*, vol. 38, 160-164, 1990.	Journal
97)	1991	Some Classes of Languages in NCˆ1 (with T. Jiang, J. Chang, and B. Ravikumar)	*Information and Computation*, vol. 90, pp. 86-106, 1991.	Journal
98)	1992	String Editing on a One-way Linear Array of Finite-state Machines (with T. Jiang and H. Wang)	*IEEE Transactions on Computers*, vol. 41, pp. 112-118, 1992.	Journal
99)	1990	Systolic Algorithms for Some Scheduling and Graph Problems (with T. Jiang, J. Chang, and M. Palis)	*Journal of VLSI Signal Processing*, vol. 1, 307-320, 1990.	Journal
100)	1991	Parallel Parsing on a One-way Linear Array of Finite-state Machines (with T. Jiang and H. Wang)	*Theoretical Computer Science*, vol. 85, 53-74, 1991.	Journal
101)	1990	On Mapping Systolic Algorithms onto the Hypercube (with S. Sohn)	*IEEE Transactions on Parallel and Distributed Systems*, vol. 1, 48-63, 1990.	Journal
102)	1991	The Power of Alternating One-reversal Counters and Stacks (with T. Jiang) (previously titled, Trading Reversals for Alternation)	*SIAM Journal on Computing*, vol. 20, 278-290, 1991.	Journal

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
103)	1990	An Efficient All-Parses Systolic Algorithm for General Context-free Parsing (with M. Palis)	*International Journal of Parallel Programming*, vol. 19, pp. 295-331, 1990.	Journal
104)	1992	On Space-bounded Synchronized Alternating Turing Machines (with N. Tran)	*Theoretical Computer Science*, vol. 99, pp. 243-264, 1992.	Journal
105)	1992	A Hierarchy Result for 2-Dimensional TM's Operating in Small Space (with T. Jiang, H. Wang, and Q. Zheng)	*Information Sciences*, vol. 64, pp. 49-56, 1992.	Journal
106)	1992	Iterative Algorithms for the Planar Convex Hull Problem on Mesh-Connected Arrays (with A. Holey)	*Parallel Computing*, vol. 18, pp. 281-296, 1992.	Journal
107)	1992	A Characterization of Exponential-Time Languages by Alternating Context-Free Grammars (with T. Jiang and H. Wang)	*Theoretical Computer Science*, vol. 99, pp. 301-313, 1992.	Journal
108)	1993	On Efficient Parallel Algorithms for Solving Set Recurrence Equations (with H. Wang and T. Jiang)	*Journal of Algorithms*, vol. 14, pp. 244-257, 1993.	Journal
109)	1989	Parallel Parsing on the Hypercube (with T. Pong and S. Sohn)	*Performance of Distributed and Parallel Systems*, T. Hasegawa, H. Takagi, and Y. Takahashi, editors, North-Holland, 1989.	Book Chapter
110)	1991	On Resetting DLBA's	*Bulletin of the European Association for Theoretical Computer Science*, no. 44, pp. 190-191, 1991; also appeared in *SIGACT (Special Interest Group in Automata and Computability Theory) News*, vol. 22, no. 1, pp. 62-63, 1991.	Bulletin
111)	1986	Systolic Arrays: Characterizations and Complexity	*Proceedings of the 1986 Mathematical Foundations of Computer Science Symposium* , Bratislava, Czechoslovakia, 1986.	Refereed Conference Proceedings (Invited Speaker)
112)	1986	On Pebble Automata (with J. Chang, M. Palis and B. Ravikumar)	*Proceedings of the 20th Annual Conference on Information Sciences and Systems,* Princeton, New Jersey, 1986.	Refereed Conference Proceedings

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113)	1986	Parallel Parsing on a One-Way Array of Finite-State Machines (with J. Chang and M. Palis)	*Proceedings of the 1986 International Conference on Parallel Processing*, St. Charles, Illinois, 1986.	Refereed Conference Proceedings
114)	1986	Systolic Tree Implementation of Data Structures (with J. Chang., M. Chung and K. Rao)	*Proceedings of the 1986 International Conference on Parallel Processing*, St. Charles, Illinois, 1986.	Refereed Conference Proceedings
115)	1986	On the Power of One-way Communication (with J. Chang and A. Vergis)	*Proceedings of the 27th Annual IEEE Symposium on Foundations of Computer Science*, Toronto, Canada, 1986.	Refereed Conference Proceedings
116)	1986	On Sparseness, Ambiguity and Other Decision Problems for Acceptors and Transducers (with B. Ravikumar)	*Proceedings of the 3rd Symposium on Theoretical Aspects of Computer Science*, Orsay, France, 1986.	Refereed Conference Proceedings
117)	1987	On One-way Cellular Arrays (with T. Jiang)	*Proceedings of the 14th International Colloquium on Automata, Languages, and Programming*, Karlsruhe, F. R. Germany, 1987.	Refereed Conference Proceedings
118)	1987	Two-Dimensional Convolution on the Pyramid Computer (with J. Chang, T. Pong, and S. Sohn)	*Proceedings of the 1987 International Conference on Parallel Processing*, St. Charles, Illinois, 1987.	Refereed Conference Proceedings
119)	1987	Relating the Degree of Ambiguity of Finite Automata to Succinctness of their Representation (with B. Ravikumar)	*Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science*, Pune, India, 1987.	Refereed Conference Proceedings
120)	1988	Systolic Algorithms for Some Scheduling and Graph Problems (with T. Jiang, J. Chang, and M. Palis)	*Proceedings of the 1988 International Conference on Systolic Arrays*, San Diego, California, 1988.	Refereed Conference Proceedings
121)	1988	Trading Reversals for Alternation (with T. Jiang)	*Proceedings of the Structure in Complexity Theory Third Annual Conference*, Washington, D.C., 1988.	Refereed Conference Proceedings
122)	1988	Some Languages in NCˆ1 (with T. Jiang and B. Ravikumar)	*Proceedings of the Aegean Workshop on Computing: 3rd International Workshop on Parallel Computation and VLSI Theory*, Corfu Island, Greece, 1988.	Refereed Conference Proceedings
123)	1988	Efficient Simulations of Simple Models of Parallel Computation by Time-Bounded Alternating TMs and Space-Bounded TMs (with J. Chang and M. Palis)	*Proceedings of the 15th International Colloquium on Automata, Languages, and Programming*, Tampere, Finland 1988.	Refereed Conference Proceedings

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124)	1988	Hypercube Algorithms for Some String Comparison Problems (with T. Pong and S. Sohn)	*Proceedings of the 1988 International Conference on Parallel Processing*, St. Charles, Illinois, 1988.	Refereed Conference Proceedings
125)	1988	Learning Regular Languages from Counterexamples (with T. Jiang)	*Proceedings of the 1988 Workshop on Computational Learning Theory*, Boston, Massachusetts, 1988.	Refereed Conference Proceedings
126)	1988	Parallel Parsing on the Hypercube (with T. Pong and S. Sohn)	*Proceedings of the International Seminar on Performance of Distributed and Parallel Systems*, Kyoto, Japan, 1988.	Refereed Conference Proceedings
127)	1989	On Mapping Systolic Algorithms onto the Hypercube (with S. Sohn)	*Proceedings of the 1989 International Conference on Parallel Processing*, St. Charles, Illinois, August 1989.	Refereed Conference Proceedings
128)	1989	An Efficient All-Parses Systolic Algorithm for General Context-free Parsing (with M. Palis)	*Proceedings of the 1989 Workshop on Algorithms and Data Structures*, Ottawa, Canada, August 1989.	Refereed Conference Proceedings
129)	1989	Cellular Arrays: Characterizations and Complexity	*1989 Workshop on Cellular Automata: Theory and Experiment* , Los Alamos, New Mexico, September 1989.	Refereed Conference Proceedings (Invited Speaker)
130)	1989	Scene Labeling on the Hypercube (with T. Pong and S. Sohn)	*Proceedings of the 1989 International Joint Conference on Artificial Intelligence Workshop on Parallel Algorithms for Machine Intelligence*, Detroit, Michigan, August 1989.	Refereed Conference Proceedings
131)	1989	Parallel Parsing on a One-way Linear Array of Finite-state Machines (with T. Jiang and H. Wang)	*Proceedings of the 1989 Ninth Conference on Foundations of Software Technology and Theoretical Computer Science*, Bangalore, India, December 1989.	Refereed Conference Proceedings
132)	1988	String Processing on the Hypercube (with T. Pong and S. Sohn)	*Proceedings of the 1988 International Conference on Parallel Processing*, August 1988.	Refereed Conference Proceedings
133)	1990	Iterative Algorithms for Planar Convex Hull on Mesh-Connected Arrays (with A. Holey)	*Proceedings of the 1990 International Conference on Parallel Processing*, St. Charles, Illinois, August 1990.	Refereed Conference Proceedings
134)	1990	String Editing on a One-way Linear Array of Finite-state Machines (with T. Jiang and H. Wang)	*Proceedings of the 1990 International Conference on Parallel Processing*, St. Charles, Illinois, August 1990.	Refereed Conference Proceedings

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135)	1990	Some Results Concerning 2-D On-line Tesselation Acceptors and 2-D Alternating Finite Automata	*Proceedings of the Toyohashi Symposium on Theoretical Computer Science*, Toyohashi, Japan, August 1990.	Refereed Conference Proceedings (Invited Speaker)
136)	1990	Efficient Parallel Algorithms for Solving Set Recurrence Equations and Applications (with H. Wang and Y. Jiang)	*Proceedings of the Second IEEE Symposium on Parallel and Distributed Processing*, Dallas, Texas, December 1990.	Refereed Conference Proceedings
137)	1991	Triangulation in a Plane and 3-D Convex Hull on Mesh-Connected Arrays and Hypercubes (with A. Holey)	*Proceedings of the Fifth International Parallel Processing Symposium*, Anaheim, California, April-May 1991.	Refereed Conference Proceedings
138)	1991	Fast Parallel Algorithms for Solving Triangular Systems of Linear Equations on the Hypercube (with M. Kim)	*Proceedings of the Fifth International Parallel Processing Symposium*, Anaheim, California, April-May 1991.	Refereed Conference Proceedings
139)	1991	Triangulation, Voronoi Diagram, and Convex Hull in k-Space on Mesh-Connected Arrays and Hypercubes (with A. Holey)	*Proceedings of the 20th Annual International Conference on Parallel Processing*, St. Charles, Illinois, August 1991.	Refereed Conference Proceedings
140)	1991	On Space-bounded Synchronized Alternating Turing Machines (with N. Tran)	*Proceedings of the 1991 Fundamentals of Computation Theory Conference*, Berlin, Germany, September 1991.	Refereed Conference Proceedings
141)	1991	Some Results Concerning 2-D On-line Tesselation Acceptors and 2-D Alternating Finite Automata (with T. Jiang and H. Wang)	*Proceedings of the International Symposium on Mathematical Foundations of Computer Science*, Warsaw, Poland, September 1991.	Refereed Conference Proceedings
142)	1992	Quadtree Building Algorithms on an SIMD Hypercube (with M. Kim)	*Proceedings of the 6th International Parallel Processing Symposium*, Beverly Hills, California, March 1992.	Refereed Conference Proceedings
143)	1992	New Results Concerning Synchronized Finite Automata (with N. Tran)	*Proceedings of the 1992 International Colloquium on Automata, Languages, and Programming*, Vienna, Austria, July 1992.	Refereed Conference Proceedings
144)	1992	Minimum Cover and Single Source Shortest Path Problems for Weighted Interval Graphs and Circular-arc Graphs (with H. Wang and Q. Zheng)	*Proceedings of the Thirtieth Annual Allerton Conference on Communication, Control, and Computing*, Allerton, Illinois, October 1992.	Refereed Conference Proceedings

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145)	1993	On the Equivalence of Two-way Pushdown Automata and Counter Machines over Bounded Languages (with T. Jiang, N. Tran, and H. Wang)	*Proceedings of the 1993 Symposium on Theoretical Aspects of Computer Science*, Germany, February 1993.	Refereed Conference Proceedings
146)	1993	Synchronized Finite Automata and 2DFA Reductions (with N. Tran)	*Theoretical Computer Science*, vol. 115, pp. 261-275, 1993.	Journal
147)	1993	Quadtree Building Algorithms on an SIMD Hypercube (with M. Kim)	*Journal of Parallel and Distributed Computing*, vol. 18, pp. 71-76, 1993.	Journal
148)	1993	A Note on Simple Programs with Two Variables (with N. Tran)	*Theoretical Computer Science*, vol. 112, pp. 391-397, 1993.	Journal
149)	1993	On the Shortest Path Problem for Permutation Graphs (with Q. Zheng)	*Proceedings of the 7th International Parallel Processing Symposium*, Newport Beach, California, pp. 198-204, April 1993.	Refereed Conference Proceedings
150)	1993	New Decidability Results Concerning Two-way Counter Machines and Applications (with T. Jiang, N. Tran, and H. Wang)	*Proceedings of the 1993 International Colloquium on Automata, Languages and Programming*, Lund, Sweden, pp. 313-324, July 1993.	Refereed Conference Proceedings
151)	1993	On the Equivalence of Two-way Pushdown Automata and Counter Machines over Bounded Languages (with T. Jiang, N. Tran, and H. Wang)	*International Journal of Foundations of Computer Science*, vol. 4, no. 2, pp. 135-146, 1993.	Journal
152)	1993	On the Communication Complexity of Parallel Computation (with N. Tran)	*Proceedings of the 1993 Mathematical Foundations of Computer Science Symposium*, Gdanks, Poland, pp. 517-526, August/September 1993.	Refereed Conference Proceedings
153)	1993	Finding Articulation Points and Bridges of Permutation Graphs (with Q. Zheng)	*Proceedings of the 1993 International Conference on Parallel Processing*, St. Charles, Illinois, pp. III 77-80, August 1993.	Refereed Conference Proceedings
154)	1994	Fast Parallel Algorithms for Solving Triangular Systems of Linear Equations on the Hypercube (with M. Kim)	*Journal of Parallel and Distributed Computing*, vol. 20, pp. 303-316, 1994.	Journal
155)	1994	Some Results Concerning 2-D On-line Tesselation Acceptors and 2-D Alternating Finite Automata (with T. Jiang and H. Wang)	*Theoretical Computer Science*, vol. 125, pp. 243-257, 1994.	Journal

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156)	1994	Some Efficient Algorithms for Permutation Graphs (with Q. Zheng)	*Journal of Algorithms*, vol. 16, pp. 453-469, 1994.	Journal
157)	1994	On Communication-bounded Synchronized Alternating Finite Automata (with N. Tran)	*Acta Informatica*, vol. 31, pp. 315-327, 1994.	Journal
158)	1994	A Flow Based Approach to the Pin Redistribution Problem for Multi-Chip Modules (with D. Chang and T. Gonzalez)	*Proceedings of the Fourth Great Lakes Symposium on VLSI*, Notre Dame, Indiana, pp. 114-119, March 1994.	Refereed Conference Proceedings
159)	1994	Transformations Between Boundary Codes, Run Length Codes and Linear Quadtrees (with M. Kim)	*Proceedings of the 1994 International Parallel Processing Symposium*, Cancun, Mexico, pp. 120-125, April 1994.	Refereed Conference Proceedings
160)	1994	On Some Open Problems Concerning the Complexity of Cellular Arrays (with T. Jiang)	*Proceedings: Results and Trends in Theoretical Computer Science - Colloquium in Honor of Arto Salomaa*, Graz, Austria, pp. 183-196, June 1994.	Refereed Conference Proceedings (Invited)
161)	1994	On the Parallel Complexity of Solving Recurrence Equations (with N. Tran)	*Proceedings of the 1994 International Symposium on Algorithms and Computation*, Beijing, China, pp. 469-477, August 1994.	Refereed Conference Proceedings
162)	1995	New Decidability Results Concerning Two-way Counter Machines (with T. Jiang, N. Tran, and H. Wang)	*SIAM Journal on Computing*, vol. 24, no. 1, pp. 123-137, 1995.	Journal
163)	1995	An Optimal Shortest Path Parallel Algorithm for Permutation Graphs (with Q. Zheng)	*Journal of Parallel and Distributed Computing*, vol. 24, pp. 94-99, 1995.	Journal
164)	1995	A Note on Parsing Pattern Languages (with T. Pong and S. Sohn)	*Pattern Recognition Letters*, vol. 16, no. 2, pp. 179-182, 1995.	Journal
165)	1995	The WWW Prototype of the Alexandria Digital Library (with D. Andresen, L. Carver, R. Dolin, C. Fischer, J. Frew, M. Goodchild, T. Kothuri, M. Larsgaard, B. Manjunath, D. Nebert, J. Simpson, T. Smith, T. Yang, Q. Zheng)	*Proceedings of ISDL'95: International Symposium on Digital Libraries*, Japan, August 1995.	Refereed Conference Proceedings

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166)	1995	On Symbolic Scheduling and Parallel Complexity of Loops (with T. Yang)	*Proceedings of IEEE Symposium on Parallel and Distributed Processing*, San Antonio, Texas, pp. 360-367, October 1995.	Refereed Conference Proceedings
167)	1996	Performance Prediction in Symbolic Scheduling of Partitioned Programs with Weight Variation (with T. Yang)	*Journal of Parallel and Distributed Computing*, vol. 34, pp. 171-182, 1996.	Journal
168)	1996	A Digital Library for Geographically Referenced Materials (with T. Smith, D. Andresen, L. Carver, R. Dolin, C. Fischer, J. Frew, M. Goodchild, R. Kemp, R. Kothuri, M. Larsgaard, B. Manjunath, D. Nebert, J. Simpson, A. Wells, T. Yang, Q. Zheng)	*IEEE Computer*, vol. 29, no. 5, pp. 54-60, 1996. (Note erratum on page 14 of vol. 29, no. 7 issue of IEEE Computer.)	Journal
169)	1996	SWEB: Towards a Scalable World Wide Web Server on Multicomputers (with D. Andresen, T. Yang, V. Holmedahl)	*Proceedings of the 1996 International Parallel Processing Symposium*, Honolulu, Hawaii, pp. 850-856, April 1996.	Refereed Conference Proceedings
170)	1996	Experimental Studies on a Compact Storage Scheme for Wavelet-Based Multiresolution Subregion Retrieval (with A. Poulakidas, A. Srinivasan, O. Egecioglu and T. Yang)	*Proceedings of the 1996 NASA Combined Industry, Space and Earth Science Data Compression Workshop*, Snowbird, Utah, pp. 61-70, 996.	Refereed Conference Proceedings
171)	1996	Scalability Issues for High Performance Digital Libraries on the World Wide Web (with D. Andresen, O. Egecioglu, T. Smith and T. Yang)	*Proceedings of ADL'96, Forum on Research and Technology Advances in Digital Libraries, IEEE, Washington, D.C., pp. 139-150, May 1996.*	Refereed Conference Proceedings
172)	1996	On the Complexity of Cellular Automata	*Proceedings of the French School in Theoretical Computer Science*, a volume in Mathematics and its Application Series, Kluwer, Saissac, France, June 1996.	Refereed Conference Proceedings (Invited)
173)	1996	On the Complexity of Commutativity Analysis (with P. Diniz and M. Rinnard)	*Proceedings of the 1996 Conference on Computing and Combinatorics*, Hong Kong, pp. 323-332, June 1996.	Refereed Conference Proceedings
174)	1996	Parallel Progressive Radiosity with Adaptive Meshing (with Y. Yu and T. Yang)	*Proceedings of Irregular'96*, Santa Barbara, pp. 159-170, August 1996.	Refereed Conference Proceedings
175)	1996	Efficient Access and Delivery of Images for the Digital Library	*Third International Conference on High Performance Computing*, Trivandrum, India, December 1996.	Refereed Conference Proceedings (Keynote)

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176)	1997	Toward a Scalable Distributed WWW Server on Workstation Clusters (with D. Andresen and T. Yang)	*Journal of Parallel and Distributed Computing*, vol. 42, pp. 91-100, 1997.	Journal
177)	1997	On the Parallel Complexity of Loops (with N. Tran and T. Yang)	*Theoretical Computer Science*, vol. 179, pp. 381-395, 1997.	Journal
178)	1997	On the Complexity of Commutativity Analysis (with P. Diniz and M. Rinard)	*International Journal of Foundations of Computer Science*, vol. 8, pp. 81-94, 1997.	Journal
179)	1997	Parallel Progressive Radiosity with Adaptive Meshing (with Y. Yu and T. Yang)	*Journal of Parallel and Distributed Computing*, Vol 42, pp. 30-41, 1997.	Journal
180)	1997	On the Containment and Equivalence of Conjunctive Queries with Linear Constraints (with J. Su)	*Proc. Sixteenth ACM Symp. on Principles of Database Systems*, pp. 32-43, 1997.	Refereed Conference Proceedings
181)	1997	A Compact Storage Scheme for Fast Wavelet-Based Subregion Retrieval (with A. Poulakidas, A. Srinivasan, O. Egecioglu, and T. Yang)	*Proc. of Third International Computing and Combinatorics Conference*, Shanghai, China, pp. 353-362, August 1997.	Refereed Conference Proceedings
182)	1998	Adaptive Partitioning and Scheduling for Enhancing WWW Application Performance (with D. Andresen, T. Yang, and O. Egecioglu)	*Journal of Parallel and Distributed Computing*, vol. 49, pp. 57-85, 1998.	Journal
183)	1998	Adaptive Load Sharing for Clustered Digital Library Servers (with H. Zhu, T. Yang, Q. Zheng, D. Watson, and T. Smith)	*Proc. of Seventh IEEE International Symposium on High Performance Distributed Computing*, Chicago, pp. 235-242, July 28-31, 1998.	Refereed Conference Proceedings
184)	1999	An Index Structure for Spatial Joins in Linear Constraint Databases (with H. Zhu and J. Su)	*Proc. International Conference on Data Engineering*, pp. 636-643, 1999.	Refereed Conference Proceedings
185)	1999	A Technique for Proving Decidability of Containment and Equivalence of Linear Constraint Queries (with J. Su)	*Journal of Computer and System Sciences* vol. 59, pp. 1-28, 1999.	Journal

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186)	1999	On Some Approximation Algorithms for the Set Partition Problem (with H. Zhu)	*Proc. 15th Triennial Conf. of Int. Federation of Operations Research Society*, China, August 1999.	Refereed Conference Proceedings
187)	1999	Counter Machines: Decision Problems and Applications (with J. Su)	*A special collection of papers commemorating the 60th birthday of Arto Salomaa*, pp. 84-96, Springer, 1999.	Invited Book Chapter
188)	2000	Image Compression for Fast Wavelet-Based Subregion Retrieval (with A. Poulakidas, A. Srinivasan, O. Egecioglu, and T. Yang)	*Theoretical Computer Science*, vol. 240, pp. 447-469, 2000.	Journal
189)	2000	Adaptive Load Sharing for Clustered Digital Library Servers (with H. Zhu, T. Yang, Q. Zheng, D. Watson, and T. R. Smith)	*International Journal on Digital Libraries*, vol. 2, pp. 225-235, 2000.	Journal
190)	2000	Counter Machines and the Safety and Disjointness Problems for Database Queries with Linear Constraints (with J. Su and C. Bartzis),	*Words, Sequences, Languages: Where Mathematics, Computer Science, Linguistics, and Biology Meet*, pp. 127-137, Kluwer, 2000.	Invited Book Chapter
191)	2000	Reachability Analysis for Some Models of Infinite-state Transition Systems (with T. Bultan and J. Su)	*Proceedings of 11th International Conference on Concurrency Theory*, Pennsylvania, pp. 183-198,2000.	Refereed Conference Proceedings
192)	2000	Some Complexity Issues in Parallel Computing	*Proceedings of Workshop on Algorithm Engineering as a New Paradigm*, Kyoto, pp. 48-56,2000.	Refereed Conference Proceedings (Invited)
193)	2000	Reachability and Safety in Queue Systems with Counters and Pushdown Stacks	*Proceedings of International Conference on Implementation and Application of Automata*, Canada, pp. 120-129, 2000.	Refereed Conference Proceedings
194)	2000	Generalizing the Discrete Timed Automaton (with J. Su)	*Proceedings of International Conference on Implementation and Application of Automata*, Canada, pp. 206-215, 2000.	Refereed Conference Proceedings
195)	2000	Counter Machines: Decidable Properties and Applications to Verification Problems (with S. Su, Z. Dang, T. Bultan, and R. Kemmerer)	*Proceedings of 25th International Symposium on Mathematical Foundations of Computer Science*, Slovak Republic, pp. 426-435, 2000.	Refereed Conference Proceedings

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196)	2000	Binary Reachability Analysis of Discrete Pushdown Automata (with Z. Dang, T. Bultan, R. Kemmerer, and J. Su)	*Proceedings of Conference on Computer Aided Verification*, Chicago, pp. 69-84, 2000.	Refereed Conference Proceedings
197)	2000	Toward Spatial Joins for Polygons (with H. Zhu and J. Su)	*Proceedings of International Conference on Statistical and Scientific Database Management*, pp. 231-244, 2000.	Refereed Conference Proceedings
198)	2000	Extending Rectangle Join Algorithms for Rectilinear Polygons (with H. Zhu and J. Su)	*Proceedings of the First International Conference on Web-Age Information Management*, pp. 247-258, 2000.	Refereed Conference Proceedings
199)	2000	Applications of the Unsolvability of Hilbert's Tenth Problem to Decision Questions Concerning Programs and Abstract Machines	in *Handbook on Hilbert's Tenth Problem*, to be published by the American Mathematical Society as a special volume in Advances in Mathematical Sciences.	Invited Chapter; but book project discontinued.
200)	2001	Moving Objects: Logical Relationships and Queries (with J. Su and H. Xu)	*Proc. Seventh International Symposium on Spatial and Temporal Databases*, pp. 3-19, 2001.	Refereed Conference Proceedings
201)	2001	On Multi-way Spatial Joins with Direction Predicates (with H. Zhu and J. Su)	*Proc. Seventh International Symposium on Spatial and Temporal Databases*, pp. 217-235, 2001.	Refereed Conference Proceedings
202)	2001	Decision Questions Concerning Semilinearity, Morphisms and Commutation of Languages (with T. Harju, J. Karhumaki, and A. Salomaa)	*Proc. Twenty Eighth International Colloquium on Automata, Languages and Programming*, pp. 579-590, 2001.	Refereed Conference Proceedings
203)	2002	Past Pushdown Timed Automata (with Z. Dang, T. Bultan, and R. Kemmerer)	*Proc. Sixth International Conference on Implementation and Application of Automata*, pp. 74-86, 2002.	Refereed Conference Proceedings
204)	2001	Decidable Approximations on Generalized and Parameterized Discrete Timed Automata (with Z. Dang and R. Kemmerer)	*Proc. Sixth Annual International Computing and Combinatorics Conference*, pp. 529-539, 2001.	Refereed Conference Proceedings
205)	2001	On Removing the Stack in Reachability Constructions (with Z. Dang)	*Proc. Twelfth Annual International Symposium on Algorithms and Computation*, pp. 244-256, 2001.	Refereed Conference Proceedings
206)	2001	Liveness Verification of Reversal-bounded Multicounter Machines with a Free Counter (with Z. Dang and P. San Pietro)	*Proc. Twenty First Foundations of Software Technology and Theoretical Computer Science*, pp. 132-143, 2001.	Refereed Conference Proceedings
207)	2001	On Reachability and Safety in Infinite-State Systems (with T. Bultan and J. Su)	*International Journal of Foundations of Computer Science*, vol. 12, pp. 821-836, 2001.	Journal

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208)	2002	Augmenting the Discrete Timed Automaton with Other Data Structures (with J. Su)	*Theoretical Computer Science*, vol. 289, pp. 191-204, 2002.	Journal
209)	2002	Verification in Queue-Connected Multicounter Machines	*International Journal of Foundations of Computer Science*, vol. 13, pp. 115-127, 2002.	Journal
210)	2002	On Cellular Arrays and Other Topics in Parallel Computing (formerly titled: Complexity Issues in Parallel Computation)	*IEICE (Institute of Electronics, Information and Communication Engineers) Transactions on Information and Systems*, vol. E85-D, pp. 312-321, 2002.	Journal (Invited)
211)	2002	On Moving Object Queries (with H. Hoda and J. Su)	*Proc. Twenty First ACM SIGACT-SIGMOD-SIGART Symp. on Principles of Database Systems*, pp. 188-198, 2002.	Refereed Conference Proceedings
212)	2002	Safety Verification for Two-Way Finite Automata with Monotonic Counters (with Z. Dang and Z-W. Sun)	*Proc. Sixth International Conference on Developments in Language Theory*, 2002.	Refereed Conference Proceedings
213)	2002	On the Emptiness Problem for Two-Way NFA with One Reversal-Bounded Counter (with Z. Dang and Z-W. Sun)	*Proc. Thirteenth Annual International Symposium on Algorithms and Computation*, pp. 103-114, 2002.	Refereed Conference Proceedings
214)	2002	Trajectory Queries and Octagons in Moving Object Databases (with H. Zhu and J. Su)	*Proc. Eleventh International Conference on Information and Knowledge Management*, pp. 413-421, 2002.	Refereed Conference Proceedings
215)	2002	Counter Machines and Verification Problems (with J. Su, Z. Dang, T. Bultan, R. Kemmerer)	*Theoretical Computer Science*, vol. 289, pp. 165-189, 2002.	Journal
216)	2002	The Existence of Omega-Chains for Transitive Mixed Linear Relations and Its Applications (with Z. Dang)	*International Journal of Foundations of Computer Science*, vol. 13, pp. 911-936, 2002.	Journal
217)	2003	Verification in Loosely Synchronous Queue-Connected Discrete Timed Automata (with Z. Dang and P. San Pietro)	*Theoretical Computer Science*, vol. 290, pp. 1713-1735, 2003.	Journal

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
218)	2003	Eliminating the Storage Tape in Reachability Constructions (with Z. Dang)	*Theoretical Computer Science*, vol. 299, pp. 687-706, 2003.	Journal
219)	2003	Generalized Discrete Timed Automata: Decidable Approximations for Safety Verification (with Z. Dang and R. Kemmerer)	*Theoretical Computer Science*, vol. 296, pp. 59-74, 2003.	Journal
220)	2002	Some Decision Problems Concerning Semilinearity and Commutation (with T. Harju, J. Karhumaki, and A. Salomaa)	*Journal of Computer and System Sciences*, vol. 65, pp. 278-294, 2002.	Journal
221)	2003	Closure and Decidable Properties of Some Language Classes with Respect to Ciliate Bio-Operations (with M. Daley and L. Kari)	*Theoretical Computer Science*, vol. 306, pp. 19-38, 2003.	Journal
222)	2002	Parallel Architectures, Algorithms, and Networks (co-edited with F. Hsu and R. Saldana)	*IEEE*, 2002.	Refereed Conference Proceedings
223)	2002	Computing and Combinatorics (co-edited with L. Zhang)	*Springer*, 2002.	Refereed Conference Proceedings
224)	2002	Implementation and Application of Automata (co-edited with Z. Dang)	*Springer*, 2003.	Refereed Conference Proceedings
225)	2003	A Solvable Class of Quadratic Diophantine Equations with Applications to Verification of Infinite State Systems (with G. Xie and Z. Dang)	*Proc. of the 30th International Colloquium on Automata, Languages and Programming (ICALP 2003)*, LNCS, vol. 2719, pp. 668-680, 2003.	Refereed Conference Proceedings
226)	2003	Dense Counter Machines and Verification Problems (with G. Xie, Z.Dang, and P. San Pietro)	*Proc. of the 15th International Conference on Computer Aided Verification (CAV 2003)*, LNCS, vol. 2725, pp. 93-105, 2003.	Refereed Conference Proceedings
227)	2003	The Number of Membranes Matters	*Proc. of the 2003 Workshop on Membrane Computing (WMC 2003)*, pp. 273-285, 2003.	Refereed Conference Proceedings

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
228)	2003	Characterizations of Catalytic Membrane Computing Systems (with Z. Dang, O. Egecioglu, and G. Saxena).	*Proc. of the 28th International Symposium on Mathematical Foundations of Computer Science (MFCS 2003)*, LNCS, vol. 2747, pp. 480-489, 2003.	Refereed Conference Proceedings
229)	2003	The ld and dlad Bio-Operations on Formal Languages (with M. Daley, L. Kari, I. McQuillan, and K. Nakano)	*Journal of Automata, Languages and Computation*, vol. 8, pp. 477-498, 2003.	Journal
230)	2004	Past Pushdown Timed Automata and Safety Verification (with Z. Dang, T. Bultan, and R. Kemmerer)	*Theoretical Computer Science*, vol. 313, pp. 57-71, 2004.	Journal
231)	2004	On Two-Way FA with Monotonic Counters and Quadratic Diophantine Equations (with Z. Dang)	*Theoretical Computer Science*, vol. 312, pp. 359-378, 2004.	Journal
232)	2004	On the Computational Complexity of Membrane Systems	*Theoretical Computer Science*, vol. 320, pp. 89-109, 2004.	Journal
233)	2004	Instance-Specific Solutions for Accelerating the CKY Parsing of Large Context-Free Grammars (with J. Bordim, Y. Ito, and K. Nakano)	*International Journal of Foundations of Computer Science*, vol. 15, pp. 403-415, 2004.	Journal
234)	2004	Catalytic P Systems, Semilinear Sets, and Vector Addition Systems (with Z. Dang and O. Egecioglu)	*Theoretical Computer Science*, vol. 312, pp. 379-399, 2004.	Journal
235)	2004	Implementation and Application of Automata	*Theoretical Computer Science*, vol. 328, 2004.	Journal
236)	2004	Composability of Infinite-State Activity Automata (with Z. Dang and J. Su)	*Proc. of the 15th Annual International Symposium on Algorithms and Computation*, Springer LNCS, pp. 377-388, 2004.	Refereed Conference Proceedings
237)	2004	A Matrix q-Analogue of the Parikh Map (with O. Egecioglu)	*Proc. of the 3rd IFIP International Conference on Theoretical Computer Science*, pp. 125-138, 2004.	Refereed Conference Proceedings
238)	2004	Automated Composition of *e*-Services: Lookaheads (with C. Gerede, R. Hull, and J. Su)	*Proc. of the 2nd International Conference on Service Oriented Computing*, pp. 252-262, 2004.	Refereed Conference Proceedings

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239)	2004	On the Computational Complexity of P Automata (with E. Csuhaj-Varju and G. Vaszil)	*Proc. of the 10th International Meeting on DNA Computing*, Springer LNCS, pp. 76-89, 2004.	Refereed Conference Proceedings
240)	2004	P Systems: Some Recent Results and Research Problems, **(invited paper)**	*Proc. of the Workshop on Unconventional Programming Paradigms*, Springer LNCS, (13 pages), 2004.	Refereed Conference Proceedings
241)	2004	Automata-Theoretic Techniques for Analyzing Infinite-State Systems, **(invited paper)**	*Proc. of the 9th International Conference on Implementation and Application of Automata*, LNCS 3317, 2004.	Refereed Conference Proceedings
242)	2004	On P Systems Operating in Sequential Mode (with Z. Dang)	*Proc. of the 6th Workshop on Descriptional Complexity of Formal Systems*, (12 pages), 2004.	Refereed Conference Proceedings
243)	2004	Real-Counter Automata and Their Decision Problems (with Z. Dang, P. San Pietro, and G. Xie)	*Proc. of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science*, Springer LNCS 3328, pp. 198-210, 2004.	Refereed Conference Proceedings
244)	2004	Computing and Combinatorics (with L. Zhang)	*International Journal of Foundations of Computer Science*, 2004.	Journal
245)	2004	The Power of Maximal Parallelism in P Systems (with H.-C. Yen and Z, Dang)	*Proc. of the 8th International Conference on Developments in Language Theory*, Springer LNCS 3340, pp. 212-224, 2004.	Refereed Conference Proceedings
246)	2005	On Two-Way Nondeterministic Finite Automata with One Reversal-Bounded Counter (with Z. Dang and Z.-W. Sun)	*Theoretical Computer Science*, vol. 330, pp. 59-79, 2005.	Journal
247)	2005	On Membrane Hierarchy in P Systems	*Theoretical Computer Science*, vol. 334, pp. 115-129, 2005.	Journal
248)	2005	Counting Time in Computing with Cells (with A. Paun)	*Proc. 11th International Meeting on DNA Computing*, pp. 25-36, 2005.	Refereed Conference Proceedings
249)	2005	On Bounded Symport/Antiport P Systems (with S. Woodworth)	*Proc. 11th International Meeting on DNA Computing*, pp. 37-48, 2005.	Refereed Conference Proceedings

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250)	2005	On Various Notions of Parallelism in P Systems (with H.-C. yen and Z, Dang)	*International Journal of Foundations of Computer Science*, pp. 683-705, 2005.	Journal
251)	2005	Signaling P Systems and Verification Problems (with C. Li, Z. Dang, and H.-C. Yen)	*Proc. of the 32nd International Colloquium on Automata, Languages, and Programing*, Springer LNCS, pp. 1462-1473, 2005.	Refereed Conference Proceedings
252)	2005	Some Computational Issues in Membrane Computing, **(invited paper)**	Proc. of the 30th International Symposium on Mathematical Foundations of Computer Science, Springer LNCS, pp. 39- 51, 2005.	Refereed Conference Proceedings
253)	2005	On Sequential and 1-Deterministic P Systems (with S. Woodworth, H.-C. Yen, and Z. Dang)	*Proc. of the 11th International Computing and Combinatorics Conference*, Springer LNCS 3595, pp. 905-914, 2005.	Refereed Conference Proceedings
254)	2005	On Deterministic Catalytic Systems (with H.-C. Yen)	*Proc. of the 10th International Conference on Implementation and Application of Automata*, Springer LNCS 3845, pp. 163-175, 2005.	Refereed Conference Proceedings
255)	2005	Some Recent Results Concerning Deterministic P Systems, **(invited paper)**	*Proc. of the 6th International Workshop on Membrane Computing*, Springer LNCS 3850, pp. 49-54, 2005.	Refereed Conference Proceedings
256)	2005	On Symport/Antiport Systems and Semilinear Sets (with S. Woodworth, H.-C. Yen, and Z. Dang)	*Proc. of the 6th International Workshop on Membrane Computing*, Springer LNCS 3850, pp. 253-271, 2005.	Refereed Conference Proceedings
257)	2005	Online and Minimum-Cost Ad Hoc Delegation in *e*-Service Composition (with C. Gerede, B. Ravikumar, and J. Su)	*Proc. of the 2005 IEEE International Conference on Services Computing*, IEEE Computer Society Press, pp. 103-112, 2005.	Refereed Conference Proceedings
258)	2005	On Model-Checking of P Systems (with Z. Dang, C. Li, and G. Xie)	*Proc. 4th International Conference on Unconventional Computation*, Springer LNCS 3699, pp. 82-93, 2005.	Refereed Conference Proceedings
259)	2005	On Symport/Antiport P Systems with One or Two Symbols (with S. Woodworth)	*Proc. of Workshop on Theory and Applicatiions of P Systems*, IEEE Computer Press, pp. 431-439, 2005.	Refereed Conference Proceedings

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260)	2005	On One-Membrane P Systems Operating in Sequential Mode (with Z. Dang)	*International Journal of Foundations of Computer Science*, pp. 867-881, 2005.	Journal
261)	2005	On Determinism Versus Nondeterminism in P Systems	*Theoretical Computer Science*, pp. 120-133, 2005.	Journal
262)	2005	On Composition and Lookahead Delegation of *e*-Services Modeled by Automata (with Z. Dang and J. Su)	*Theoretical Computer Science*, pp. 344-363, 2005.	Journal
263)	2006	On the Computational Complexity of P Automata (with E. Csuhaj-Varju and G. Vaszil)	*Natural Computing*, pp. 109-126, 2006.	Journal
264)	2006	A q-Analogue of the Parikh Matrix Mapping (with O. Egecioglu)	*Special Volume on Formal Models, Languages, and Applications*, World Scientific Publishing Co., pp. 97-111, 2006.	Invited Book Chapter
265)	2006	On the Computational Power of 1-Deterministic and Sequential P Systems (with S. Woodworth, H.-C. Yen, and Z. Dang)	*Fundamenta Informaticae*, pp. 133-152, 2006.	Journal
266)	2006	On Partially Blind Multihead Finite Automata (with B. Ravikumar)	*Theoretical Computer Science*, pp. 190-199, 2006.	Journal
267)	2006	Characterizations of Context-Sensitive Languages and Other Language Classes in Terms of Symport/Antiport P Systems (with Gheorghe Paun)	*Theoretical Computer Science*, pp. 88-103, 2006.	Journal
268)	2006	Simulating FAS-induced Apoptosis by Using P Systems (with Cheruku, A. Paun, F.J. Romero-Campero, and M. J. Perez-Jimenez)	*Proc. International Conference on Bio-Inspired Computing – Theory and Applications*, pp. 71-81, 2006.	Refereed Conference Proceedings
269)	2006	Developments in Language Theory (with Z. Dang)	*Proc. 10th International Conference on Developments in Language Theory*, Springer LNCS 4036, 2006.	Refereed Conference Proceedings

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270)	2006	Deterministic Catalytic Systems Are Not Universal (with H.-C. Yen)	*Theoretical Computer Science*, pp. 149-161, 2006.	Journal
271)	2006	On the Solvability of a Class of Diophantine Equations and Applications (with Z. Dang)	*Theoretical Computer Science*, pp. 342-346, 2006.	Journal
272)	2006	Characterizations of Some Restricted Spiking Neural P Systems (with S. Woodworth)	*Proc. 7th Workshop on Membrane Computing*, Springer LNCS 4361, pp. 424-442, 2006.	Refereed Conference Proceedings
273)	2006	On Spiking Neural P Systems and Partially Blind Counter Machines (with S. Woodworth, F. Yu, and A. Paun)	*Proc. 5th International Conference on Unconventional Computing*, Springer LNCS 4135, pp. 113-129, 2006.	Refereed Conference Proceedings
274)	2006	On Symport/Antiport P Systems with A Small Number of Objects (with S. Woodworth),	*International Journal of Computer Mathematics*, pp. 613-634, 2006.	Journal
275)	2006	Implementation and Application of Automata (with H.-C. Yen)	*Proc. 11th International Conference on Implementation and Application of Automata*, Springer LNCS 4094, 2006.	Refereed Conference Proceedings
276)	2007	Normal Forms for Spiking Neural P Systems (with A. Paun, G. Paun, A. Rodriguez-Paton, P. Sosik, S. Woodworth)	*Theoretical Computer Science*, pp. 196-217, 2007.	Journal
277)	2007	Developments in Language Theory	*Theoretical Computer Science*, pp. 1-2, 2007.	Journal
278)	2007	Asynchronous Spiking Neural P Systems: Decidability and Undecidability (with M. Cavaliere, O. Egecioglu, M. Ionescu, G. Paun, S. Woodworth)	*Proc. 13th International Meeting on DNA Computing*, pp. 142-151, 2007.	Refereed Conference Proceedings
279)	2007	Simulating FAS-induced Apoptosis by Using P Systems (with S. Cheruku, A. Paun, F.J. Romero-Campo, M.J. Perez-Jimenez)	*Progress in Natural Science*, pp. 424-431, 2007.	Journal
280)	2007	Implementation and Application of Automata (with H.-C. Yen)	*International Journal of Foundations of Computer Science*, pp. 667-668, 2007.	Journal

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281)	2007	Spiking Neural P Systems: Some Characterizations (with S. Woodworth), invited paper	*Proc. 16th International Symposium on Fundamentals of Computation Theory*, Springer LNCS 4639, pp. 23-37, 2007.	Refereed Conference Proceedings
282)	2007	On Stateless Automata and P Systems (with L. Yang and Z. Dang)	*Proc. International Workshop on Automata for Cellular and Molecular Computing*, pp. 144-157, 2007.	Refereed Conference Proceedings
283)	2007	On Counter Machines, Diophantine Equations, and Reachability Problems (with Z. Dang and L. Yang), invited paper	*Proc. Workshop on Reachability Problems*, pp. 8-24, 2007.	Refereed Conference Proceedings
284)	2007	Bond Computing Systems: A Biologically Inspired and High-Level Dynamics Model for Pervasive Computing (with L. Yang and Z. Dang)	*Proc. 6th International Conference on Unconventional Computation*, Springer LNCS 4618, pp. 226-241, 2007.	Refereed Conference Proceedings
285)	2007	Computing with Cells: Membrane Systems – Some Complexity Issues (with A. Paun)	*International Journal of Parallel, Emergent and Distributed Systems*, to appear.	Journal
286)	2007	Online and Minimum-Cost Delegation in Service Composition (with C. Gerede, B. Ravikumar, and J. Su)	*Theoretical Computer Science*, to appear.	Journal
287)	2007	Quality-Aware Service Delegation in Automated Web Service Composition: An Automata-Theoretic Approach (with C. Gerede and B. Ravikumar)	*Journal of Automata, Languages and Combinatorics*, to appear	Journal
288)	2007	Characterizing Regular Languages by Spiking Neural P Systems (with S. Woodworth)	*International Journal of Foundations of Computer Science*, to appear.	Journal
289)	2007	On Spiking Neural P Systems and Partially Blind Counter Machines (with S. Woodworth, F. Yu, and A. Paun)	*Natural Computing*, to appear.	Journal

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290)	2007	On the Decidability of Model-Checking for P Systems (with Z. Dang, C. Li, and G. Xie)	*Journal of Automata, Languages and Combinatorics*, to appear.	Journal
291)	2007	Membrane Systems: A "Natural Way of Computing with Cells", in Handbook in Parallel Computing: Models, Algorithms, and Applications, S. Rajasekaran and J. Reif, editors.	*CRC Pres, Computer and Information Series*, to appear.	Invited Book Chapter
292)	2007	Asynchronous Spiking Neural P Systems (with M. Cavaliere, O. Egecioglu, M. Ionescu, G. Paun, S. Woodworth)	*Theoretical Computer Science*, to appear.	Jounal
293)	2007	On Counter Machines, Reachability Problems, and Diophantine Equations (with Z. Dang and L. Yang), invited	*International Journal of Foundations of Computer Science*, to appear.	Journal
294)	2007	Membrane Computing: A General View (with G. Paun)	*Annals of the European Academy of Sciences*, to appear.	Journal
295)	2008	Computing with Cells: Membrane Systems	*Proc. 9th International Symposium on Parallel Architectures, Algorithms, and Networks*, to appear.	Refereed Conference Proceedings
296)	2008	On Stateless Multihead Automata: Hierarchies and the Emptiness Problem (with J. Karhumaki and A. Okhotin)	*Proc. 8th Latin American Theoretical Informatics*, to apprear.	Refereed Conference Proceedings