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Education

1978 Ph. D. in Radiophysics & Electronics (Computer Science), University of Calcutta, India.

1975 M.Tech. in Radiophysics & Electronics, University of Calcutta, India.

1973 B.Tech. in Radiophysics & Electronics, University of Calcutta, India.

1970 B.Sc.(Hons. in Physics), University of Calcutta, India.

Professional Experience

1/2007–present **Professor**, Computer Science, Clemson University, Clemson, South Carolina.

8/2000–12/2006 **Professor & Chair**, Computer Science, Clemson University, Clemson, South Carolina.

1/90–8/2000 **Professor**, Computer Science, Colorado State University, Ft. Collins, Colorado.

1/2000–5/2000 **CNRS Visiting Researcher**, Universite de Technologie de Compiègne, France.

7/94–6/96 **Interim Chair**, Computer Science, Colorado State University, Ft. Collins, Colorado.

7/87–12/89 **Professor**, Computer Science, Southern Illinois University, Carbondale, Illinois.

9/85–6/87 **Associate Professor**, Computer Science, Southern Illinois University, Carbondale, Illinois.

9/84–8/85 **Visiting Associate Professor**, Computer Science, Southern Illinois University, Carbondale, Illinois.

9/81–8/84 **Assistant Professor** of Computer Science and **Chairperson** of Computer Center, Indian Institute of Management, Calcutta, India.

2/80–8/81 **Alexander von Humboldt Post Doctoral Fellow** of Computer Science, Informatik Kolleg, Gesellschaft fuer Informatik und Datenverarbeitung, Bonn, West Germany.

10/76–1/80 **Lecturer/Computer Engineer**, Indian Statistical Institute, Calcutta, India.

8/76–9/76 **Assistant Divisional Engineer**, Department of Post and Telegraph, Government of India.

Contracts & Grants

- “G-SESAME Cloud: A Dynamically Scalable collaboration Community for Biological Knowledge Discovery”, NSF Award #DBI-0960586, 7/1/2010 – 6/30/2013, \$545,536.00 (with J. Wang (PI), F. Luo, C. Fu).
- “Autonomous Distributed Local Computing Models using Self-Stabilization”, NSF Award #0832582, 9/1/2008 – 8/31/2011 \$150000.00 (Co-PI: W. Goddard)
- “CPATH EAE: TEXNH - Evaluation, Adoption and Extension”, NSF Award CCF-0722313, 8/1/07 – 7/31/10, \$453673.00 (with J. Westall(PI), R. Geist, A. Duchowski, T. Davis, J. Wang)
- “An Experimental Supercomputer from Commodity Components.” Clemson University Research Fund, \$100000.00 (with J. Westall (PI) T. Davis, B. Dean, B. Schalkoff, D. Woodard, and R. Geist)
- “ITR: Self-Stabilizing Networking Protocols for Distributed Systems”, NSF Award ANI-0218495, 9/13/02 - 7/31/05, \$394433.00 (with S. T. Hedetniemi and D. P. Jacobs)

- “Clemson mini-Conference on Combinatorial Optimization”, NSF Award CCR-0222648, 9/17/02 - 10/1/03, \$14937.00 (with S. T. Hedetniemi, R. C. Laskar and G. Fix).
- “ITR/SII: Wireless Networking Solutions for Smart Sensor Biomedical Applications”, NSF Award ANI-0086020, 8/01/00 - 7/31/04, \$1.7M, (PI: L. Schwiebert, Wayne State; I’m a senior researcher in the subcontract to CSU).
- “Mobility Tolerant Adaptive Multicast Protocols for Ad Hoc Networks”, \$299,998, 8/15/00-7/31/03, NSF (with S. K. S. Gupta), Award Numer: ANI-0073409.
- “Planning for the Development of a Distributed, Internet Data base System for Biodiversity Data Sets from the International Network of Conservation Data Centers”, NSF Award DBI#9975496, September 99 – August 00, \$58,922 (co-PIs: B. Baker & P. Mehlhop).
- Equipment Grant for Computing Literacy Laboratory from Hewlett-Packard, \$187,999.00, March 1996.

Research

- **Research Interests:** Distributed Systems, Mobile Computing, Parallel Algorithms, Interconnection Networks, Data Structures, Fault-Tolerant Computing, Graph Theory & Applications.
- **Research Honors and Awards:** Elected **Fellow of the IEEE** in 1999 for contributions to Interconnection Networks and Their Fault Tolerance. Elected **ACM Distinguished Scientist** in 2008.
- **Publications in Journal & Conference (refereed) Proceedings:** See Annexure-I.

Professional Service

(A) Membership in Professional Associations: IEEE Computer Society, ACM.

(B) Journal Editorial Board:

- *IEEE Transactions on Services Computing*, Associate Editor, (2008 –)
- *IEEE Transactions on Parallel and Distributed Systems*, Associate Editor, (2007 – 2009)
- *International Journal of Sensor Networks*, Member, Editorial Board, (2004 –)
- *International Journal of High Performance Computing and Networking*, Member, Editorial Board, (2004 –)
- *IEEE Computer Society Press*, Editor (90–92), Associate Editor-in-Chief (93–96), Editor-in-Chief (97–00).
- *International Journal of Computer Simulation*, Editor (1991–1996).
- *IEEE Software*, Member, Editorial Board (1993–1999), Contributing Editor (1999–2000).
- *IEEE Transactions on Knowledge and Data Engineering*, Associate Editor (1998–2002).
- *Parallel Computing*, Member, Editorial Board, (2000– 2007).

(C) Book Editor:

- *A IEEE CS Press Technology Series Volume*, Software Reliability Models: Theoretical Developments, Evaluation & Applications, (Co-editor: Y.K. Malaiya) January 1991.
- *A IEEE CS Press Technology Series Volume*, Distributed Mutual Exclusion Algorithms, (Co-editor: S. R. Das), December 1992.

(D) Journal Guest Editor:

- A Special Issue on Theoretical Computer Science of the *Journal of Combinatorics, Information and System Sciences*, Vol. 24, 2-3, 1989 (Co-editor: Walter Wallis).

- A *IEEE Software* Special Issue on Software Reliability Models and Applications (Co-editor: Y.K. Malaiya), July 1992.
- *International Journal of Computer and Software Engineering* Special Issue on Reliable Software (Co-editor: J.M. Bieman), January 1994.
- *The Journal of Systems & Software* Special Issue on Specification, Verification and Validation Techniques to Industrial Software Systems (Co-editor: J.M. Bieman), June 1993.
- *Journal of VLSI Design* Special Issue on Interconnection Networks, Summer 1994.
- *The Journal of Systems & Software* Special Issue on Software Engineering for Distributed Computing (Co-editor: J.M. Bieman), June 1996.
- *IEEE Computer* Special Issue on Neural Computing: Theory and Practice (Co-Editor: S. K. Pal), March 1996.
- *International Journal of Systems Science* Special Issue on Distributed Systems, March 1997.
- *IEEE Transactions on Software Engineering* Special Issue on Architecture-Independent Languages and Software Tools for Parallel Processing, February 2000.
- *Parallel Computing* on Clusters of Workstations, (Co-Editor: M. Atiquzzaman) February 2000.
- *IEEE Personal Communications* on Pervasive Computing, (Co-Editor: S. K. S. Gupta and W. C. Lee) Summer 2001.
- *IEEE Transactions on Computer* Special Issue on Database Management Systems & Mobile Computing, (Co-Editor: S. K. S. Gupta and W. C. Lee), Summer 2002.
- *Parallel Computing* on Parallel Data Intensive Algorithms and Applications (Co-Editor: D. Talia), May 2002.
- *Journal on Parallel and Distributed Computing* Special Issue on Scalable Web Services and Architecture (Co-Editor: C. Xu and H. Jin), Summer 2003.
- *IEEE JSAC* Special Issue on Recent Advances in Wireless Multimedia (Co-Editor: R. ChandraMouli, X. Wang, H. Yu and R. Shorey), Winter 2003.

(E) Keynote Speaker:

- *The Fifth International Symposium on Parallel and Distributed Processing and Applications (ISPA07)*, Ontario, Canada, August 2007
- *Sixth Annual Consortium for Computing in Small Colleges : Midwest Conference*, Franklin, Indiana, October 1999.
- *High Performance Computing Workshop*, Calcutta, India, December 1998.
- *Microelectronic Systems Education Conference*, Washington, DC, September 1999.
- *Midwest Conference on Combinatorics, Cryptography and Computing*, Wichita Kansas, 1993.

(F) Tutorial Speaker:

- “Self-Stabilizing Distributed Systems”, 7-th International Workshop on Distributed Computing (IWDC-2005), Kharagpore, India, December 2005.
- “Mobility Management in Mobile IP”, *18th IEEE Int’l Performance, Computing, and Communications Conference (IPCCC’99)*, Phoenix, Arizona, Feb. 12, 1999.
- “Mobility Management in Mobile IP”, *Seventh Int’l Symposium on Modeling, Analysis and Simulation of Computer and Telecommunication Systems (MASCOTS’99)*, Oct 24, 1999.
- “Mobile ATM: Goals, Challenges, and Emerging Solutions”, *18th IEEE Int’l Performance, Computing, and Communications Conference (IPCCC’99)*, Phoenix, Arizona, Feb. 12, 1999.
- “Database Management and Mobile Computing”, *MobiCom’2000*, Boston, Massachusetts, Aug. 6, 2000.

- “Self-Stabilization: A New Paradigm in Fault tolerant Distributed Systems”, *2000 ACM Symposium on Applied Computing*, Como, Italy, March 19-21, 2000.
- “Interconnection Networks: Theory & Practice”, *1998 International Conference on Parallel and Distributed Computing and Systems (PDCS '98)*, Las Vegas, October 28-31, 1998.

(G) Conference Program Chair/Co-Chair:

- International Conference on Information Technology: Coding and Computing (ITCC 2000), Las Vegas, March 27-29, 2000.
- International Conference on Information Technology: Coding and Computing (ITCC 2001), Las Vegas, April 2001.
- International Conference on Information Technology: Coding and Computing (ITCC 2002), Las Vegas, April 2002.
- International Conference on Information Technology: Coding and Computing (ITCC 2003), Las Vegas, April 2003.
- International Conference on Information Technology: Coding and Computing (ITCC 2003), Las Vegas, April 2004.
- 2000 ACM Symposium on Applied Computing (SAC 2000), Como, Italy, March 19-21, 2000 (PDS Track).
- 6th ACM Symposium on Applied Computing (SAC 2001), Las Vegas, March 11-14, 2001 (PDS Track).
- Workshop on Pervasive Computing, The 29th International Conference on Parallel Processing (ICPP 2000), Toronto, Canada, August 21-24, 2000.
- 1st Workshop on Wireless Networks and Mobile Computing in conjunction with The 20th International Conference on Distributed Computing Systems, ICDCS 2000, Taipei, Taiwan, Republic of China, April 10-13, 2000.
- 2nd International Workshop on Wireless Networks and Mobile Computing, in conjunction with Int'l Conf. on Distributed Computing Systems 2001, Phoenix, Arizona, April 16 - 19, 2001.

(H) Program Committee Member:

ISRRE '93, IPCCC '94, PDCS-94, ICSE-96, IC3N'95, ICCI-95, ICCI-96, Euro-PDS 97, PDCS98, MASCOTS'98, CESA 98, Euro-PDS 98, CESA 98, PDSE 99, IPCCC-99, ICSE 99, ICDCS2000, RIDE 2000, PDSE 2000, ACIDCA'2000, CIC'2000, AMOC-2000, ICPADS 2001, PDCS 2001, ASPEISA'00, WNMC 01, AMOC-2002, ICT 2002, CIC 2002, MDB 2002, MASCOTS 2002, PDCS 2002, HiPC2003, IAT2004, MAAS2004, COMPSAC2007, PDCS-2007, IEEE MHWMN'07, PMAC-2WN07, SAINT 2008, COMPSAC 2008 (Education Track Chair), GPC 2008, IAT 2008, WAMAN2008, ICPP 2008, COMPSAC 2008, SAINT 2008, COMPSAC 2009, IAT 2009, COMPSAC 2010, IAT 2010 IEEE INFOCOM 2011, IAT 2011 (Vice Chair), IEEE INFOCOM 2012.

(I) Reviewer:

(a) NSF Panels on CAREER, ITR and regular (CCR, ANIR, CNS, IIS), 2000–2011.

(b) I have served as a reviewer for IEEEETC, IEEEETPDS, IEEEETSMC, JPDC, Acta Informatica, Information Processing Letters, Journal of Systems Software, Computer Systems: Science & Engineering, Information Sciences, International Journal of Systems Science, IPL, PPL, JPDC, ICPP, ICCL, ICDCS, FTCS, IPPS, ICCP, FST-TCS, and others.

(J) Professional Society Activities:

- Member, IEEE Computer Society Planning Committee, 1991, 1997, 1999.
- Member, Magazine Advisory Committee, IEEE Computer Society, 1990–1991.
- IEEE CS Education Activities Board, Member (1994–07), Vice-Chair, 2001–2005, Ex-Com 2007.
- Vice Chair, IEEE CS Conference & Tutorial Board, 1993, 1997–07, Vice-Chair 01-05, Secretary 06–07.
- Member, IEEE CS Press Activities Board, 1997–99.
- Member, IEEE CS Membership Committee, 1999-2001.

- Member, IEEE CS Awards Committee, 1995–97, 2001, 2005–06, 2008 – 2011.
- Member, IEEE Computer Society/ACM Task Force on the “Year 2001 Model Curricula for Computing” (CC-2001).
- Member, IEEE Computer Society/ACM Task Force on the “Computer Engineering Curricula”, 2000–2005.
- Member, ACM/IEEECS Executive Committee on Computing Curricula, 2005 – 2008.
- CSAB Accreditation Visitor, 1998 – 2004.
- ABET CAC Commissioner, 2005 – 2009.

Teaching

- **Teaching Interests:** Operating Systems, Distributed Systems, Parallel Algorithms, Algorithms, Compiler Design, Database Systems, Automata Theory, Data Structures, Discrete Structures.
- **Teaching Awards & Honors:** Outstanding Teacher of COLA (College of Liberal Arts, SIUC) in 1988, nominated for outstanding teacher award of COLA by department faculty and students in 1986, 1987, and 1988.
- **Courses Taught:** See Annexure-II.
- **Master’s Thesis Supervision:** 4 at ISI, 11 at IIMC, 18 at SIUC and 17 at CSU, and 1 at Clemson. Additionally, served on many M.S. graduate committees.
- **Ph. D. Thesis Supervision:** I have co-supervised 1 Ph. D. student at SIUC, supervised 3 Ph. D. student at CSU and 1 PhD student at Clemson. Served many PhD committees.

University Service

Departmental Committees

- 11–12 Member, Promotion and Tenure Committee of CS Division, Member, School Assessment Committee, CS Division Representative to the School of Computing Advisory Committee.
- 10–11 Chair, Promotion and Tenure Committee of CS Division, Member, School Assessment Committee.
- 09–10 Member, Promotion and Tenure Committee of CS Division, Member, School Assessment Committee, School Representative to the School of Computing Advisory Committee.
- 08–09 Chair, Promotion and Tenure Committee of School of Computing, Member, Undergraduate affairs Committee.
- 07–08 Member, Transition Committee, School of Computing, Chair of Tenure & Promotion Committee, Member of School Advisory Committee, Member of Director Search Committee, Graduate and Undergraduate Committees, Assessment Committee, for the School of Computing (Clemson).
- 00–06 Ex-Officio Chair of Department’s Advisory Committee and Curriculum Committee (Clemson).
- 99–00 Chair, Promotion & Tenure Committee, Member of Executive Committee and Graduate Committee (CSU).
- 98–99 Member, Graduate Committee (CSU).
- 97–98 Member, Graduate Committee (CSU).
- 96–97 Chair, Graduate Committee (CSU).
- 95–96 Member of Graduate Committee, Undergraduate Committee and Computing Committee, Member of CCHE Review Committee, Chair of Faculty Search Committee (CSU).
- 94–95 Member of Graduate Committee and Computing Committee, Chairman of Faculty Search Committee (CSU).
- 93–94 Chairman of Department’s Executive Committee, Chairman of Promotion and Tenure Committee, Chairman of Computing Committee, and Chairman of Curriculum Committee (CSU).

- 92–93 Chairman of Computing Committee, Chairman of Promotion and Tenure Committee, Chairman of Department Review Committee and member of Faculty Search Committee (CSU).
- 91–92 Chairman of Computing Committee and Member of Research Committee (CSU).
- 90–91 Member of Research Committee, Faculty Search Committee and System Administrator Search Committee (CSU).
- 89–90 Member of Undergraduate Committee and Departmental Equipment Committee (SIUC).
- 88–89 Chairman of Departmental Grievance Committee and Scheduling Committee for Departmental Courses, Member of Undergraduate Committee (SIUC).
- 87–88 Chairman of Departmental Operating Papers Committee, Member of Graduate Committee and Faculty Recruitment Committee (SIUC).
- 86–87 Chairman of Grievance Committee and two Syllabus Review Committees, Member of Graduate Committee and Special Task Force on Discrete Structure Courses (SIUC).
- 85–86 Member of Undergraduate Committee, Faculty Recruitment Committee and Minicomputer Selection Committee (SIUC).
- 84–85 Member of Computing Committee and Graduate Committee (SIUC).
- 81–84 At Indian Institute of management I have served as a member of the following committees for a term of two years at different times: (a) Master’s Committee, (b) Consultancy Committee, (c) Ph. D. Committee, (d) Computing Committee (IIMC).
- 76-78 At Indian Statistical Institute, I have served as a member of the task force on syllabus when the advanced diploma in computer science was converted into a Master’s program (ISI).

University Committees

- 11 – Member, University Academic Technology Council (Clemson).
- 11 – Member, University Grievance Board (Clemson).
- 08 – 11 Member, Faculty Senate (Clemson).
- 06 – Member, University Assessment Committee (Clemson).
- 01– 03 Member, Provost’s Task Force on Department Chairs’ Training (Clemson).
- 00–01 Chair, College of Engineering & Science Committee on Enrollment Management (Clemson).
- 96–99 Elected College Representative to University Faculty Council (CSU).
- 97–00 College of Natural Science Committee on Mathematics & Science Education for non majors (CSU).
- 92–95 Member, Graduate Council (CSU).
- 86–88 Member of College of Liberal Arts Council (SIUC).
- 86–88 Member of COLA Subcommittee for Academic Policy (SIUC).

Citizenship

Citizen of United States of America

Annexure-I

Refereed Publications of Pradip K Srimani

A. Journal Publications

- [1] “An Efficient Method to Measure the Semantic Similarity of Ontologies”, **International Journal of Pervasive Computing and Communications**, Vol. 6, pp. 88 – 103, 2010.
Co-author(s): James Z. Wang, Farha Ali
- [2] “Distributed fault tolerant computation of weakly connected dominating set in ad hoc networks”, **Journal of Supercomputing**, Vol.53, pp. 182 – 195, 2010.
Co-author(s): James Z. Wang, Z. Xu
- [3] “Fast deterministic broadcast and gossiping algorithms for mobile ad hoc networks”, **Journal of Parallel and Distributed Computing**, Vol. 68 (7), pp. 922–938, 2008.
Co-author(s): K. Sinha and S. Ghosh
- [4] “Self-stabilizing Graph Protocols”, **Parallel Processing Letters**, Vol. 18 (1), pp. 189–199, 2008.
Co-author(s): W. Goddard, D. Jacobs, and Z. Xu
- [5] “Cooperative proxy caching for wireless base stations”, **Mobile Information Systems**, Vol. 3(1), pp. 1–18, 2007.
Co-author(s): J. Wang and Z. Du
- [6] “An online distributed gossiping protocol for mobile networks”, Special Issue on Network Applications of **Journal of Combinatorial Optimization**, Vol. 11, No. 1, pp. 87–97, 2006.
Co-author(s): Z. Shi
- [7] “Deterministic broadcast and gossiping algorithms for adhoc networks”, **Journal of Supercomputing**, Vol. 37(2), pp. 115–144, 2006.
Co-author(s): K. Sinha
- [8] “Self-stabilizing anonymous leader election in a tree”, **International Journal of Foundations of Computer Science**, Vol. 17, No. 2, pp. 323–335, 2006.
Co-author(s): Z. Xu
- [9] “Self-Stabilizing global optimization algorithms for large network graphs”, **International Journal of Distributed Sensor Networks**, Volume 1, No. 3–4, pp. 329–344, 2005.
Co-author(s): W. Goddard, S. T. Hedetniemi and D. P. Jacobs
- [10] “Distance Distribution of Nodes in Star Graphs”, **Applied Mathematics Letters**, Vol. 19, No. 8, pp. 780 – 784, 2006.
Co-author(s): S. Latifi, L. Wang, and S. Subramanian
- [11] “Self-stabilizing Algorithms for Orderings and Colorings”, **International Journal of Foundations of Computer Science**, Vol. 16, pp. 19–36, February 2005.
Co-author(s): W. Goddard, S.T. Hedetniemi and D. P. Jacobs
- [12] “Hierarchical star: a new two level interconnection network”, **Journal of System Architecture**, Volume 51, pp. 1–14, 2005.
Co-author(s): W. Shi
- [13] “Leader election in oriented star graphs”, **Networks**, Vol. 45, pp. 169 – 179, 2005.
Co-author(s): W. Shi and M. Bouabdallah
- [14] “Leader Election in Hierarchical Star Networks”, To appear in **Journal of Parallel and Distributed Computing**
Co-author(s): W. Shi
- [15] “Loop detection in MPLS for wireless sensor networks”, **Microprocessors and MicroSystems**, Vol. 28, pp. 439–445, 2004.
Co-author(s): S. Latifi and V. Jolly
- [16] “Self-stabilizing algorithms for minimal dominating sets and maximal independent sets”, **Computers & Mathematics with Applications**, Vol. 46, pp. 805–811, 2003.
Co-author(s): S. M. Hedetniemi, S. T. Hedetniemi and D. P. Jacobs
- [17] “Adaptive Core Selection and Migration Method for Multi-cast Routing in Mobile Ad Hoc Networks”, **IEEE Transactions on Parallel and Distributed Systems**, Vol. 14, No. 1, pp. 27-38, January 2003.
Co-author(s): S. K. S. Gupta
- [18] “Self-Stabilizing Multicast Protocols for Ad Hoc Networks”, **Journal of Parallel and Distributed Computing**, Vol. 63, No. 1, pp. 87–96, January 2003.

- [19] "Computer Engineering curriculum in the new millenium", **IEEE Transactions on Education**, Vol. 46, No. 4, pp. 456–462, November 2003.
- [20] "Parallel data intensive computing in scientific and commercial applications", **Parallel Computing**, Vol. 28, No. 5, pp. 673–704, May 2002.
Co-author(s): D. Talia and M. Cannataro
- [21] "A regular scalable fault tolerant interconnection network for distributed processing," **Parallel Computing**, Vol. 27, No. 14, pp. 1897-1919, Nov. 2001.
Co-author(s): W. Shi
- [22] "Maximal Matching Stabilizes in Time $O(m)$ ", **Information Processing Letters**, Vol. 80, pp. 221–223, 2001.
Co-author(s): D. P. Jacobs and S. T. Hedetniemi
- [23] "Adaptive Hardware Tree-based Multicast Routing in K -ary N -cubes", **IEEE Transactions on Computers**, Vol. 50, No. 7, pp. 647–659, July 2001.
Co-author(s): D. R. Kumar and W. A. Najjar
- [24] "Adaptive Distributed Dynamic Channel Allocation for Wireless Networks", **Journal of Parallel and Distributed Computing**, Vol. 61, No. 7, pp. 898–914, July 2001.
Co-author(s): S. K. S. Gupta, A. Kahol and S. Khurana
- [25] "A Strategy to Manage Cache Consistency in a Disconnected Distributed Environment", **IEEE Transactions on Parallel and Distributed Systems**, Vol. 12, No. 7, pp. 686–700, July 2001.
Co-author(s): S. K. S. Gupta, A. Kahol and S. Khurana
- [26] "Core-Based Tree with Forwarding Regions (CBT-FR); A Protocol for Reliable Multicasting in Mobile Ad Hoc Networks", **Journal of Parallel and Distributed Computing**, Vol. 61, No. 9, pp. 1249–1277, September 2001.
Co-author(s): S. K. S. Gupta
- [27] "Self-Stabilizing Depth-First Multitoken Circulation in Tree Networks", To appear in **Parallel Algorithms and Applications**.
- [28] "Reliability Modeling and Assessment of the Star Graph Networks", To appear in **IEEE Transactions on Reliability**.
Co-author(s): S. Latifi and K. Fitzgerald
- [29] "Optimal broadcast in star graph networks without immediate node reception", **International Journal of Computer Application**, Vol. 7, No. 1, pp. 63–67, March 2000.
Co-author(s): S. Latifi and K. Palagummi
- [30] "Architecture-Independent Languages and Software Tools for Parallel Processing", **IEEE Transactions on Software Engineering**, Vol. 26, No. 4, pp. 289–292, April 2000.
Co-author(s): D. Talia and M. Jazayeri
- [31] "Near-Optimal Broadcast in All-Port Wormhole-Routed Hypercubes Using Error-Correcting Codes", **IEEE Transactions on Parallel and Distributed Systems**, Vol. 11, No. 3, pp. 247–260, March 2000.
Co-author(s): S. Latifi
- [32] "Update Search: A new dynamic channel allocation scheme for mobile networks", **Journal of Supercomputing**, Vol. 17, No. 1, pp. 47–65, August 2000.
Co-author(s): S. K. S. Gupta
- [33] "Scheduling Independent Jobs for Torus Connected Networks With/Without Link Contention", **Mathematical and Computer Modelling**, Vol. 31, pp. 131–145, 2000.
Co-author(s): S. K. S. Gupta
- [34] "Wormhole Broadcast in Hypercubes", **Journal of Supercomputing**, Vol. 15, pp. 183–192, 2000
Co-author(s): S. Latifi
- [35] "Parallel Computing on clusters of workstations", **Parallel Computing**, Vol. 26, pp. 175–177, February 2000.
- [36] "A Self-Stabilizing Distributed Algorithm to Find the Median of a Tree Graph", **Journal of Computer and System Sciences**, Vol. 58, pp. 215–221, 1999.
Co-author(s): G. Antonoiu
- [37] "Self-Stabilizing Protocol for Mutual Exclusion Among Neighboring Nodes in Tree Structured Distributed System", **Parallel Algorithms and Applications**, Vol. 14, pp. 1–18, 1999.
Co-author(s): G. Antonoiu
- [38] "Curricula 2001: bringing the future to the classroom", **IEEE Computer**, Vol. 32, No. 9, pp. 85–88, September 1999.
Co-author(s): C. K. Chang, G. Engel, W. King, E. Roberts, R. Shackelford, and R. H. Sloan
- [39] "Wormhole Broadcast in Star Graph Networks", **Parallel Computing**, Vol. 24, pp. 1263–1276, 1998.
Co-author(s): S. Latifi

- [40] “A Self-Stabilizing Distributed Algorithm for Minimal Spanning Tree Problem in a Symmetric Graph”, **Computers & Mathematics with Applications**, Vol. 35, No. 10, pp. 15–23, 1998.
Co-author(s): G. Antonoiu
- [41] “SEP: A Fixed Degree Regular Network for Massively Parallel Systems”, **Journal of Supercomputing**, Vol. 12, pp. 277–291, 1998.
Co-author(s): S. Latifi
- [42] “Distributed Computing Systems”, **International Journal of Systems Sciences**, Vol. 28, No. 11, pp. 1021–1024, November 1997.
- [43] “A Self-Stabilizing Distributed Algorithm to Find the Center of a Tree Graph”, **Parallel Algorithms and Applications**, Vol. 10, pp.237–248, 1997.
Co-author(s): G. Antonoiu
- [44] “Fault Tolerant Ring Embedding in Tetravalent Cayley Network Graphs”, **Journal of Circuits, Systems and Computers**, Vol. 6, No. 5, pp. 527–536, 1996.
Co-author(s): P. Vadapalli
- [45] “Super Rotator: Incrementally Extensible Directed Network Graph of Sublogarithmic Diameter”, **Parallel Processing Letters**, Vol. 6, No. 4, pp. 479–490, 1996.
- [46] “Shortest Routing in Trivalent Cayley Graph Network”, **Information Processing Letters**, Vol. 57, pp. 183–188, 1996.
- [47] “A Self-Stabilizing Leader Election Algorithm for Tree Graphs”, **Journal of Parallel and Distributed Computing**, Vol. 34, pp. 227–232, 1996.
Co-author(s): G. Antonoiu
- [48] “Incrementally Extensible Hypercube Networks and their Fault Tolerance”, **Mathematical and Computer Modelling**, Vol. 23, No. 7, pp. 1–15, 1996.
- [49] “Scheduling of Independent Jobs in Star Graph networks”, **Computers & Mathematics with Applications**, Vol. 32, No. 6, pp. 45–55, 1996.
Co-author(s): S. Latifi
- [50] “Conditional fault diameter of the star graph networks”, **Journal of Parallel and Distributed Computing**, Vol. 33, pp. 91–97, 1996.
Co-author(s): S. Latifi and Y. Rouskov
- [51] “Transposition Networks as a Class of Fault-Tolerant Robust Networks”, **IEEE Transactions on Computers**, Vol. 45, No. 2, pp. 230–238, 1996.
Co-author(s): S. Latifi
- [52] “Neurocomputing: motivation, models and hybridization”, **IEEE Computer**, Vol. 29, pp. 24–28, March 1996.
Co-author(s): S. K. Pal
- [53] “A Self-Stabilizing Distributed Algorithm to Construct An Arbitrary Spanning Tree of a Connected Graph”, **Computers & Mathematics with Applications**, Vol. 30, No. 9, pp. 1–7, 1995.
- [54] “A New Family of Cayley Graph Interconnection Networks of Constant Degree Four”, **IEEE Transactions on Parallel and Distributed Systems**, January 1996.
Co-author(s): P. Vadapalli
- [55] “Trivalent Cayley Graphs for Interconnection Networks”, **Information Processing Letters**, Vol. 54, No. 6, pp. 329–338, June 1995.
Co-author(s): P. Vadapalli
- [56] “IEH Graphs: A Novel Generalization of Hypercube Graphs,” **Acta Informatica**, Vol. 32, No.6, pp. 597–609, September 1995.
Co-author(s): S. Sur
- [57] “Almost regular robust graphs for arbitrary number of nodes”, **Journal of Combinatorial Mathematics and Combinatorial Computing**, Vol. XIX, pp. 297–313, October 1995.
Co-author(s): S. Sur
- [58] “An almost regular fault tolerant network with arbitrary number of nodes,” **Journal of Parallel and Distributed Computing**, Vol. 26, No. 1, pp. 54–60, April 1995.
Co-author(s): S. Sur
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Annexure-II

List of Courses Taught at Clemson

CpSc 101 Introduction to Programming
CpSc 322 Introduction to OS
CpSc 462 Database Management Systems
CpSc 662 Database Management Systems
CpSc 839 Theory of Computing
CpSc 830 System Modeling
CpSc 881 Topics in Distributed Computing
CpSc 824 Advanced Operating Systems
CpSc820 Parallel Processing

List of Courses Taught at CSU

CS 155 Fundamentals of Computer Organization
CS 301 Automata Theory
CS 420 Introduction to Algorithms
CS 551 Advanced Operating Systems
CS 675 Topics in Advanced Distributed Computing
CS 651 Advanced Operating Systems
CS 520 Analysis of Algorithms
CS 557 Distributed Computing
CS 575 Parallel Algorithms
CS 451 Operating Systems
CS 270 Advanced Data Structures

Courses Taught at SIUC

CS 202 Introduction to Computer programming
CS 215 Discrete Structures I
CS 306 Fundamentals of Computing Systems
CS 330 File Management
CS 414 Systems Programming & Operating Systems
CS 416 Compiler Construction
CS 430 Database Management Systems
CS 435 Software Engineering
CS 455 Design & Analysis of Algorithms
CS 514 Advanced Operating Systems
CS 516 Advanced Compilers
CS 532 Sorting & Searching Algorithms
CS 532 Concurrency Control in Database Systems
CS 540 Fault-Tolerant Computing

Courses Taught at IIMC and ISI in India

- Operating Systems
- Data Structures
- Database Management Systems
- Programming Languages (Pascal, Basic, Fortran)
- Graph Theory and Combinatorics
- Design and Analysis of Algorithms