

Wolfgang Bein
School of Computer Science
University of Nevada, Las Vegas

Curriculum Vitae I

Education

Ph.D. in Mathematics/Computer Science, University of Osnabrueck, Germany (1987); Thesis on Network Flows at UC Berkeley under Eugene Lawler.

M.S. (Dipl. Math.) in Mathematics, University of Osnabrueck, Germany (1981).

Experience

University of Nevada, Las Vegas, Department of Computer Science.
Associate Professor, July 2004 - present.

During this time also:

- Director, Center for the Advanced Study of Algorithms, December 2004 – present.
- Kyoto University Visiting Professor. August 2006 – November 2006.
- ACM SIGACT Publicity Chair. January 2002 – present.

University of Nevada, Las Vegas, Department of Computer Science.
Assistant Professor, July 1998 – June 2004.

University of Texas, Dallas, Department of Computer Science.
Senior Lecturer, January 1994 - June 1998.

American Airlines, Decision Technologies.
Operations Research Analyst, July 1992 – May 1994.

University of New Mexico, Department of Computer Science.
Assistant Professor, August 1988 – June 1992.

Duke University, Department of Computer Science.
Research Assistant Professor of Computer Science, September 1986 - July 1988.

University of California, Berkeley, Departments of Computer Science and IEOR.
Visiting Scholar at the University of California, Berkeley, under a scholarship from the DAAD (German granting agency), August 1985 – August 1986.

Citizenship U.S.

Professional Memberships

Association for Computing Machinery (ACM), SIGACT.
American Association of University Professors (AAUP) and Nevada Faculty Alliance.

Awards and Recognition

2009 UNLV, School of Computer Science Distinguished Research Award.

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Curriculum Vitae II

2008 UNLV, School of Computer Science Distinguished Research Award.
2002/2003 UNLV, Howard Hughes College of Engineering Distinguished Teaching Award.

Articles in refereed journals

Bein W, Iwama K, Kawahara J, Larmore L, Oravec J. A Randomized Algorithm for Two Servers in Cross Polytope Spaces. *Theoretical Computer Science*, accepted with minor revisions.

Bein W, Larmore LL, Noga J, Reischuk R. Knowledge State Algorithms, *Algorithmica*, accepted with revisions.

Bein W, Epstein L, Larmore LL, Noga J. Optimally Competitive List Batching. Journal Version. *Theoretical Computer Science*, in print. (DOI information: 10.1016/j.tcs.2009.04.011)

Bein W, Larmore LL, Golin M, Zhang Y. The Knuth-Yao Quadrangle-Inequality Speedup is a Consequence of Total-Monotonicity, *ACM Transactions on Algorithms*, in print.

Bein W, Larmore LL, Morales L, Sudborough IH. A Quadratic Time 2-Approximation Algorithm for Block Sorting, *Theoretical Computer Science*, in print.

Bein D, Bein W, Malladi S. Fault Tolerance Coverage Models for Sensor Networks, *International Journal of Sensor Networks*, International Journal of Sensor Networks. Vol. 5(4), (2009) 199-209.

Bein W, Larmore LL, Reischuk R. Knowledge States for the Caching Problem in Shared Memory Multiprocessor Systems, *International Journal of Foundations of Computer Science*, International Journal of Foundations of Computer Science, Vol. 20, No. 1 (2009) 167 – 183.

Bein W, Correa J, Han X. A Fast Asymptotic Approximation Scheme for Bin Packing with Rejection. *Theoretical Computer Science*, 393, No 1-3 (2008), pp. 14 – 22.

Bein W, Iwama K, Kawahara J. Randomized Competitive Analysis for Two-Server Problems, *Algorithms*, Volume 1, 30 – 42, 2008.

Bein W, Noga J, and Wiegley J. Approximation for Batching via Priorities. *Scientific Annals of Computer Science*. Volume XVII, 2007, p. 1 – 18.

Bein W, Larmore LL, Noga J. Uniform Metrical Task Systems with a Limited Number of States, *Information Processing Letters*, 104(4): 123 – 128, 2007.

Bein W, Brucker P, Larmore LL, Park JK. The Algebraic Monge Property and Path Problems, *Discrete Applied Mathematics*, 145(3): 455 – 464 (2005).

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Curriculum Vitae III

Bein W, Larmore LL, Shields C, and Sudborough IH. Embedding a Complete Binary Tree into a Three-Dimensional Grid. *Journal of Interconnection Networks*, 5(2): 111 – 130 (2004).

Bein W, Larmore, LL. Trackless and Limited-Bookmark Algorithms for Paging. *ACM SIGACT News*, 35(1), 38 – 48, (2004).

Bein W, Bein D, Brajkovska N, Latifi S. An Optimal Embedding of Honeycomb Networks into Hypercubes, *Parallel Processing Letters*, 14(3-4): 367 – 375 (2004).

Bein W, Larmore LL, Latifi S, Sudborough IH. Block Sorting is Hard. *International Journal of Foundations of Computer Science*, 14 (3): 425 – 437 (2003).

Bein W, Brucker P, Hoffman AJ. Series parallel composition of greedy linear programming problems. Reprinted in: A. J. Hoffman (Author), Charles A. Micchelli (Editor), *Selected Papers of Alan Hoffman: With Commentary*. World Scientific Publishing Company, 353 – 366, (2003).

Bein W, Chrobak M, Larmore LL. The 3-Server Problem in the Plane. *Theoretical Computer Science*, 289(1): 335 – 354 (2002).

Bein W, Fleischer R, and Larmore LL. Limited bookmark randomized online algorithms for the paging problem. *Information Processing Letters*, 76: 155 – 162 (2000).

Bein W, Larmore LL. Trackless Online Algorithms for the Server Problem. *Information Processing Letters*, 74: 73-79 (2000).

Bein W, Pathak PK. A Characterization of the Monge Property and its Connection to Statistics, *Demonstratio Mathematica*, Vol. XXIX, No. 2, 451 – 457 (1996).

Bein W, Brucker P, Park JK, Pathak PK. A Monge Property for the d -Dimensional Transportation Problem. *Discrete Applied Mathematics*, 58: 97 – 109 (1995).

Chang LC, Bein W, Angel E. Surface intersection using parallelism. *Computer-Aided Geometric Design*, 11: 39 – 69, (1994).

Bein W, Brucker P, Hoffman AJ. Series Parallel Composition of Greedy Linear Programming Problems. *Mathematical Programming*, 62: 1 – 14 (1993).

Bein W, Kamburowski J, Stallmann MFM. Optimal Reduction of Two-Terminal Directed Acyclic Graphs. *SIAM J. Computing*, 21: 1112 – 1129 (1992).

Chang LC, Bein W, Angel E. Surface Intersection using Parallel Subdivision. *Supercomputer*, 40: 62 – 70 (1991).

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Curriculum Vitae IV

Bein W, Brucker P, Stallmann MFM. A Characterization of Network Representable Polymatroids. *Zeitschrift fuer Operations Research*, 35: 267 – 272 (1991).

Bein W, Brucker P. An $O(n \log n)$ -Algorithm for a Special Class of Linear Programs. *Computing*, 1989, 42: 309 – 113 (1989).

Bein W, Brucker P. Greedy Concepts for Network Flow Problems. *Discrete Applied Mathematics*, 1986, 15: 135 – 144 (1986).

Bein W, Brucker P, Tamir A. Minimum Cost Flow Algorithms for Series Parallel Networks. *Discrete Applied Mathematics*, 10: 117 – 124, (1985).

Bein W. On Dynamic Leontief Models. *Methods of Operations Research*, 46, 97 – 206 (1983).

Articles in refereed conference proceedings

Bein W, Latifi S, Morales L, and Sudborough IH. Bounding the Size of k-Tuple Covers. Proceedings of the 42st Annual Hawaii International Conference on System Sciences (CD-ROM), IEEE Computer Society Press, 2009 (10 pages).

Bein W, Iwama K, Kawahara J. Randomized Competitive Analysis for Two-Server Problems. 16th Annual European Symposium, Karlsruhe, Germany, September 15-17, Lecture Notes in Computer Science, Vol. 5193: 161 – 172, 2008.

Bein D, Bein W. Wireless communication in ubiquitous environments, an easy target to attacks, Proceedings of the 7th RoEduNet International Conference, pages 17 – 20, UT Press, ISBN 978-973-662-393-6, 2008.

Bein W, Noga J, and Wiegley J. Priority Approximation for Batching. Proceedings of the 41st Annual Hawaii International Conference on System Sciences (CD-ROM), IEEE Computer Society Press, 2008 (10 pages).

Bein D, Bein W, Meng Z, Morales L, Shilds CO, and Sudborough IH. Clustering and the Biclique Partition Problem. Proceedings of the 41st Annual Hawaii International Conference on System Sciences (CD-ROM), IEEE Computer Society Press, 2008 (10 pages).

Adusumilli K, Bein D, Bein W. A Genetic Algorithm for the Two Machine Flow Shop Problem. Proceedings of the 41st Annual Hawaii International Conference on System Sciences (CD-ROM), IEEE Computer Society Press, 2008 (8 pages).

Bein W, Larmore LL, Reischuk R. Knowledge States: A Tool for Randomized Online Algorithms, Proceedings of the 41st Annual Hawaii International Conference on System Sciences (CD-ROM), IEEE Computer Society Press, 2008 (10 pages).

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Curriculum Vitae V

Bein W, Iwama K, Kawahara J, Larmore L, Oravec J. A Randomized Algorithm for Two Servers in Cross Polytope Spaces. Proceedings 5th Workshop on Approximation and Online Algorithms (WAOA) Eilat, Israel, October 11-12, 2007, WAOA 2007, 2008, Springer Verlag, Lecture Notes in Computer Science LNCS 4927, 246 – 259.

Bein W, Larmore L, Noga J. Equitable Revisited, Proceedings 15th Annual European Symposium, Eilat, Israel, October 8-10, 2007, Proceedings. Lecture Notes in Computer Science 4698: 419 – 426, Springer Verlag, 2007.

Bein W, Correa J, Han X. A Fast Asymptotic Approximation Scheme for Bin Packing with Rejection, Proceedings 1st International Symposium, ESCAPE 2007, Hangzhou, China, Lecture Notes in Computer Science, LNCS 4614, 2007, pages 209 – 218.

Bein D, Bein W, Cazacu AM, Brut M. Why is hard to patent an invention. ICIE 2007, Proceedings of the 8th International Conference on Informatics in Economy (ICIE 2007), pages 133-138, ASE Printing House.

Bein W. Copyright, an Incentive or a Burden. ICIE 2007, Proceedings of the 8th International Conference on Informatics in Economy (ICIE 2007), pages 139 – 144, ASE Printing House.

Bein D, Bein W, Jolly V, Latifi S. Guarding against Web Spoofing and Phishing Attacks, Proceedings of the 5th RoEduNet IEEE International Conference, Remus Brad (Ed.), L. Blaga University Press, Sibiu, 2006, pages 106 - 109, ISBN (10) 973-739-277-9.

Bein W, Larmore LL, Golin M, Zhang Y. The Knuth-Yao Quadrangle-Inequality Speedup is a Consequence of Total-Monotonicity, Proceedings of The ACM-SIAM Symposium on Discrete Algorithms (SODA'06), ACM Press, 2006, pages 31 – 40.

Bein W, Larmore LL, Noga J. A Better Algorithm for Uniform Metrical Task Systems with Few States, Proceedings of the 8th International Symposium on Parallel Architectures, Algorithms and Networks. IEEE Computer Society, 2005, pages 94 – 99.

Bein D, Bein W, Malladi S. Fault Tolerant Coverage Model for Sensor Networks. Proceedings of the 5th International Conference on Computational Science 2005. (ICCS 2005), Atlanta, Georgia, 2005, pages 535 – 542.

Bein W, Iwama I, Larmore LL, Noga J. The Delayed k-Server Problem. Proceedings of the 15th International Symposium on Fundamentals of Computation Theory, Lübeck, Germany, Lecture Notes in Computer Science 3623, Springer Verlag, 2005, pages 281- 292.

Bein W, Larmore LL, Morales L, Sudborough IH. A Faster and Simpler 2-Approximation Algorithm for Block Sorting. Proceedings of the 15th International Symposium on Fundamentals

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Curriculum Vitae VI

of Computation Theory, Lübeck, Germany, Lecture Notes in Computer Science 3623, Springer Verlag, 2005, pages 115 – 124.

Bein W, Bein D, Jolly V, Latifi S. Privacy and Security on Internet: Virtual Private Networks, RoEduNet 2004, Timisoara, Romania, Conference Proceedings, Volume 49(63), pages 39 – 42, 2004.

Bein W, Epstein L, Larmore LL, Noga J. Optimally Competitive List Batching. In Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, Copenhagen, Denmark, 2004, pages 77 – 89.

Bein W, Larmore LL, Reischuk R. Knowledge States for the Caching Problem in Shared Memory Multiprocessor Systems. In Proceedings of the 7th International Symposium on Parallel Architectures, Algorithms and Networks - ISPAN 2004, IEEE, Hong Kong, 2004, pages 307 – 312.

Bein W. Malicious Internet Use and Homeland Security, In *Proceedings of the Networking in Education and Research International Conference*, Iasi, Romania, (2003), pages 23 – 26.

Bein W, Coombs JS, Taghva K. A Method for Calculating Term Similarity on Large Document Collections. In *Proceedings of the International Symposium on Information Technology: Coding and Computing*, ITCC 2003, Las Vegas, Nevada, IEEE Computer Society, (2003), pages 199 – 203.

Bein W, Brucker P, Larmore LL, Park JK. Fast Algorithms with Algebraic Monge Properties. In *Proceedings of the 27th International Symposium on Mathematical Foundations of Computer Science (MFCS 2002)* Warsaw, Poland, August 2002, Lecture Notes in Computer Science, Volume 2420, Springer Verlag (2002), pages 104 – 117.

Bein W, Larmore LL, Shields C, and Sudborough IH. Fixed Layer Embeddings of Binary Trees. In *Proceedings of the 6th International Symposium on Parallel Architectures, Algorithms and Networks (ISPAN 2002)*, Manila, Philippines, IEEE Computer Society (2002), pages 281 – 288.

Bein W, Larmore LL, Latifi S, and Sudborough IH. Block sorting is hard. In *Proceedings of the 6th International Symposium on Parallel Architectures, Algorithms and Networks (ISPAN 2002)*, Manila, Philippines, IEEE Computer Society (2002), pages 349 – 354.

Bein, W, Hendricks BJ. Pitfalls with Adaptive Methods for Combinatorial Optimization: The Traveling Salesman - A Case Study. In *Proceedings of the International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences - METMBS 2002*, Las Vegas, Nevada, June 2002, CSREA Press (2002), Volume I, pages 243 - 248.

Bein W, Larmore LL, Shields C, and Sudborough IH. Three-Dimensional Embedding of Binary Trees. In *Proceedings of the 5th International Symposium on Parallel Architectures, Algorithms and Networks - ISPAN 2000*, Dallas, Texas, IEEE Computer Society, (2000), pages 140 – 147.

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Curriculum Vitae VII

Gobi R, Latifi S, Bein W, Adaptive Sorting Algorithms for Evaluation of Automatic Zoning Employed in OCR Devices, in *Proceedings of the 2000 International Conference on Imaging Science, Systems, and Technology - CISST 2000*, CSREA Press, (2000), pages 253 – 259.

Bein, W, Hendricks BJ. Artificial Neural Network Architectures via Genetic Algorithms using Nested Graph Grammars. In *Proceedings of the International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences - METMBS '00*, Las Vegas, Nevada, CSREA Press, Volume II, (2000), pages 575 – 578.

Bein W, Chrobak M, Larmore LL. The 3-Server Problem in the Plane. (Extended Abstract), in Nesetril J, Algorithms - ESA'99, 7th Annual European Symposium, Prague, Czech Republic, July 1999, Proceedings, Lecture Notes in Computer Science, 1643, Springer Verlag, (1999), pages 301 – 312.

Bein W, Brucker P, Park JK. Applications of an Algebraic Monge Property. 3rd Twente Workshop on Graphs and Combinatorial Optimization, Universiteit Twente, Faigle U., Hoede C. (Eds.), Memorandum No. 1132, (1993), pages 8 – 12.

Books edited

Proceedings of the 8th International Symposium on Parallel Architectures, Algorithms and Networks. IEEE Computer Society, 2005, ISBN 0-7695-2509-1.

Proceedings of the International Symposium on Information Technology: Coding and Computing, IEEE Computer Society, (2003).

Proceedings of the International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences, CSREA Press, (2002), (Associate Editor).

Proceedings of the International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences, CSREA Press, (2000), (Associate Editor).

Selected Invited Presentations

Knowledge States: A Tool in Randomized Online Algorithms, ADS 2007 - 3rd Bertinoro Workshop on Algorithms and Data Structures, 2007, Bertinoro, Italy.

The k-Server Problem, Multi-Conference for Operations Research, University of the Federal Armed Forces, March 5 – March 7, 2007. One of three invited Plenary talks.

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Curriculum Vitae VIII

Knowledge States with an Application to Cross Polytope Spaces, NSF sponsored Workshop on Algorithms, Combinatorics, and Geometry, University of North Texas, Denton, Texas, 2007.

Online and offline list batching. Combinatorial Optimization and Applications in honor of Peter Brucker, University of Osnabrueck, March, 1 – 2, 2007.

Knowledge States: A Tool in Randomized Online Algorithms, 19th International Symposium on Mathematical Programming, Rio de Janeiro, Brazil, July 2006.

A Few Classic Examples in Complex Systems and Genetic Algorithms. Workshop on Modeling Complex Systems, US Geological Survey, Reno, Nevada, November 20 – 21, 2002. Invited Survey Talk.

Knowledge State Algorithms. Seminar Number 02271 Online Algorithms, Schloss Dagstuhl -- International Conference and Research Center for Computer Science, Wadern, Germany, June 30 - July 5, 2002; Abstract published in Seminar N^o Report 347, available electronically at <http://www.dagstuhl.de/02271/Report/>.

Monge Properties: Contemporary Tools for Efficient Algorithms, DIMACS Workshop on Codes and Trees: Algorithmic and Information Theoretic Approaches, Invited Survey Talk, Rutgers University, Piscataway, October 5 – 7, 1998.

Monge Based Algorithms. New Mexico State University, Las Cruces, Miniconference on Concepts in Computational Geometry held by Frank Harary, 1990.

Selected Colloquia

Knowledge States: A Tool in Randomized Online Algorithms, Kyoto University, Japan 2009.

Online and Offline Batching, Kyoto University, Japan 2006.

Monge Properties, Universität der Bundeswehr München, Germany, June 2005.
University of Osnabrueck, Germany, November 1998, Universitaet Luebeck, Germany, November 1998. University of California, Riverside, 1992.

The k-Server Problem – The State of the Art. Universität der Bundeswehr München, Germany, June 2005. Kyoto University, 2004. New Mexico State University, 2004, Christian-Albrechts-Universität Kiel, Germany, December 2002. University of Osnabrueck, Germany, 2003; Mathematisches Institut Zentrum fuer Angewandte Informatik, Universitaet Koeln, 2003; Universite de Picardie, Jules Verne, Amiens, 2003.

Knowledge State Algorithms. Rheinische Friedrich-Wilhelms-Universität Bonn, Institut fuer Informatik, Bonn, Germany, July, 2002.

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Curriculum Vitae IX

Trackless Algorithms. Sandia National Laboratories, Albuquerque, New Mexico, August 2000.
Universitaet Luebeck, Luebeck, Germany, December 2001. University of Paderborn, Paderborn,
Germany, November 1998. University of Texas of the Permian Basin, 1997.

The 3-Server Problem in the Plane. Also given at Max Planck Institut fuer Informatik,
Saarbruecken, Germany, July 1999.

Crew Optimization and the Set Partitioning Problem. University of California, Riverside;
University of California, Irvine; University of Osnabrueck, Germany, 1993; University of
Nevada, Reno, 1994.

Major Endowed Research Invitations

Kyoto University: December 2004 – January 2005, August 2006 – November 2006, March 2009.

Hong Kong University of Science and Technology, December 2006.

University of the Federal Armed Forces, Munich, Germany, March 2007

Funded Research

ITR: Online Algorithms and Information Technology, NSF, PI, (Co-PI: Larmore), Start Date:
08/15/03, 48 month, \$300,000.

Equipment Grant, Association Computing Machinery, (ACM), PI, 2002 \$5,000.

Genetic Algorithms and Neural Networks, UNLV SITE, PI, 100%, June 1999 – April 2000.
\$4,510.

On Line Competitive Algorithms, NSF CCR 9821009, Co-PI, (PI: Larmore), July 1999 – June
2003. \$113,871.

Travel Grants (six), University Travel Committee, 1999 – 2008, \$7,000.
Travel to conferences, mainly in theoretical computer science.

Sandia National Laboratories. Efficient Manipulation and Storage of Geometric Data, 1989.
\$10,000.

Sandia National Laboratories. Boundary and Constructive Solid Modeling Representations
in Computer Aided Design, 1990. \$10,000.

Duke University Research Council. Greedy Algorithms, 1988. \$2,000.

Professional Service

- Publicity Chair, Association for Computing Machinery (ACM) Special Interest Group on Algorithms and Computation Theory (SIGACT), 2002 – present. In charge of SIGACT's server.
- Moderator for THEORYNT
- Member of Five NSF panels, Theory of Computing, 2003 – present. (Most recent May 09).

Conference Chair

- General Chair, 8th International Symposium on Parallel Architectures, Algorithms and Networks, Las Vegas, Nevada, 2005.
- Conference Chair, Annual Symposium on Foundation of Computer Science, IEEE, Las Vegas, Nevada, 2001.
- Conference Chair, ACM Symposium on Theory on Computation, Dallas, Texas, 1998.

Program Committees

- 20th International Symposium on Algorithms and Computation (ISAAC 09), 2009
- 7th Japan Conference on Computational Geometry and Graphs, 2009.
- IEEE-RIVF 2009
- Hawaii International Conference on System Sciences, 2009, Mini-Track Organizer
- Hawaii International Conference on System Sciences, 2008, Mini-Track Organizer
- 19th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 08), 2008
- 7th International Symposium on Parallel Architectures, Algorithms and Networks (ISPAN 2004), Hong Kong, 2004.
- International Symposium on Information Technology: Coding and Computing (ITCC 2004), Las Vegas, Nevada. (Also: Track Chair)
- The 2003 International Conference on Information and Knowledge Engineering (IKE'03), Las Vegas, Nevada (Also: Vice Chair).
- International Symposium on Information Technology: Coding and Computing (ITCC 2003), Las Vegas, Nevada, (Also: Vice Chair)

Other Conference Organizing

- Advisory Committee member, 9th International Symposium on Parallel Architectures, Algorithms and Networks (ISPAN 08), 2008.

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Curriculum Vitae XI

- Treasurer, ACM Symposium on Theory on Computation, San Diego, 2003
- Steering Committee member, Workshop on Modeling Complex Systems, US Geological Survey, Reno, Nevada, November 20 – 21, 2002.
- Registration Chair, IEEE International Symposium on Information Technology: Coding and Computing, Las Vegas, Nevada, 2001.
- Treasurer, ACM Symposium on Theory on Computation, Portland, Oregon, 2000.
- Registration Chair, IEEE International Symposium on Information Technology: Coding and Computing, Las Vegas, Nevada, 2000.
- Treasurer, ACM Symposium on Theory on Computation, Las Vegas, Nevada, 1995.

Referee

Journal referee for: *Algorithmica, Algorithms, Computation Optimization and Application, Discrete Applied Mathematics, IEEE Transactions on Reliability, Journal of Algorithms, Mathematics of Operations Research, Operations Research, Parallel Processing Letters, SIAM J. Algorithms, Discrete Mathematics, Zeitschrift fuer Operations Research, Transactions on Computers, Information Processing Letters, Theoretical Computer Science, and others.*

Conference referee for: *STACS 99, ISPAN 2000, 1999 Int. Conf. High Performance Computing, 2002 ASME Design Automation Conference, ITCC03, IKE 03, ESCAPE 06, HICSS 08, HICSS 09, HICSS 10, TAPIA 08, SODA 08, ESA 09, IEEE-RIVF 09 and many others.*

University Service

- Faculty Senator, 1999 – present
- Co-Chair, Graduate Committee Curriculum Committee, 2008 – present.
- Review of Geoscience Programs at UNLV (with Bernard Malamud.)
- Executive Committee Member, Faculty Senate, 2003 – 2004.
- Member University Research Council, UNLV, 2002 – 2004.
- Member Faculty Development Leave Committee, Senate Committee, 2003 – 2004.
- Member Sabbatical Leave Committee, Senate Committee, 2002 – 2004.
- Ethics Committee, Senate Committee, 2001 – 2002

College Service

- Member Search Committee for the Director, School of Computer Science, 2005, 2006.
- Member Search Committee for the Dean, College of Engineering, 2002
- Minority Engineering Program, College of Engineering, Presentations. 2001 – present.
- Graduate College Program Evaluation Committee, 2001 – present.

Department Service

- Colloquium Chair, 2008 – present.

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Curriculum Vitae XII

- Prepared Regent's Accreditation Report for Faculty Senate (with Berghal.), 2000.
- Member Undergraduate Curriculum Committee. 1999 – present.
- Member Graduate Committee. 1999 – present.
- Served on 50+ thesis committees since 1998.
- Undergraduate Curriculum Committee, Computer Science Program, University of Texas at Dallas, 1995 –1998.
- Graduate Advisor, Computer Science Program, University of Texas at Dallas, 1995 – 1998.
- Founder and Faculty Advisor, ACM Student Chapter, Computer Science Program, University of Texas at Dallas, 1995 – 1998.