Professional Publications[1] by Kurt Gutzmann, Managing Director of GCX Advanced Analytics LLC

Author of over forty technical papers, articles and conference presentations covering the Internet, high-performance computing, information security, software engineering, project management, simulation modeling, and mathematical models for system optimization.

1. Kurt Gutzmann, "Developing Business Cases for Credit Card Fraud Re-Scoring Models," Predictive Analytics World, New York, October 2012.

2. Kurt Gutzmann, "Performance Evaluation and Optimization of Fraud Detection Systems," GCX Advanced Analytics white paper, October 2007.

3. Kurt Gutzmann, "Operational Simulation for Optimization of Fraud Operations," GCX Advanced Analytics white paper, August 2011.

4. Kurt Gutzmann, "Optimizing Fraud Operations with Trace-Driven Discrete Event Simulation," Actimize Users Group Conference, Columbus OH, May 2009.

5. Kurt Gutzmann, "Real-Options Analysis applied to Determining and Optimizing the Value of Designs in the Enterprise Architecture," The Open Group's Architecture Practitioner's Conference, Dublin, Ireland, April 2005; also appeared in the Open Group's New York Architecture Practitioner's Conference in July 2005.

6. Kurt Gutzmann, "Phishing and Identity Theft," Securities Industries Association (SIA) Technology Management Conference, New York, June 2004.   (follow-up interview in Futures Industry magazine http://www.futuresindustry.org/fimagazi-1929.asp?a=937).

7. Kurt Gutzmann, "Management of Web Services," NerveWire white paper, October 2002.

8. Kurt Gutzmann and Rich Herald, "Identity Management and Single Sign-On," NerveWire Technical Journal, Vol. 1, May 2002.

9. Kurt Gutzmann, "Single Sign-On: Enhancing Security to Achieve a Single View of the Customer," *The Ticker*, Wall Street Technology Association, May 2002.

10. Kurt M. Gutzmann, "Virtual Business Community - Architecture and Performance," CSC Business and Technology Conference, Dallas, Texas, May 1999; recipient of CSC Technical Excellence Award.

11. Kurt M. Gutzmann, "Role-Based Access Control in the HTTP Environment," IEEE Journal of Internet Computing, January 2001.

12. Kurt M. Gutzmann, "Universal Client, Web Server, and Database Server Network Architectures," PRC Technology Transfer Newsletter, March 1997.

13. Kurt M. Gutzmann, "Proxy Servers," PRC Technology Transfer Newsletter, January 1997.

14. Kurt M. Gutzmann, "Indexers, Search Engines, and Web Robots," PRC Technology Transfer Newsletter, November 1996.

15. Kurt M. Gutzmann, interviewed by Federal Computer Weekly's special supplement entitled "Internet and Intranet Technologies for Government," November 1996.

16. Kurt M. Gutzmann, "CGI Programming with Perl," PRC Technology Transfer Newsletter, August, 1996.

17. Kurt M. Gutzmann, "The Network Computer," PRC Technology Transfer Newsletter, July 1996.

18. Cora Carmody, Kurt M. Gutzmann, "Virtual Private Network/Process Asset Library," Proceedings of PRC Spring Technical Seminar, June 1996.

19. Kurt M. Gutzmann, invited panelist for "Flexible Information Technology Strategies" panel discussion of PRC Spring Technical Seminar, June 1996.

20. Bill Ferguson, Kurt M. Gutzmann, "Technology Infrastructure Evolution for Flexible Information Technology," Proceedings of PRC Spring Technical Seminar, June 1996.

21. Kurt M. Gutzmann, "Building a Process Asset Library," National Software Engineering Process Group 96 (SEPG 96) Conference, presentation, Atlantic City NJ, May 1996.

22. Kurt M. Gutzmann, "Server-less Web Pages Using Netscape DDE," PRC Technology Transfer Newsletter, August 1995.

23. Kurt M. Gutzmann, "SSL Web Servers," PRC Technology Transfer Newsletter, April 1996.

24. Kurt M. Gutzmann, "Secure Socket Layer Web Servers," Technology '96 Seminar, invited presentation at George Mason University, Fairfax, VA, February 1996.

25. Randy Allen, and Kurt M. Gutzmann, "Document Conversion for the World Wide Web," PRC Fall Technical Seminar, 1995.

---

[1]*Papers are listed in reverse chronological order*

26. Kurt M. Gutzmann, "The Process Asset Library," PRC Technology Transfer Newsletter, February 1995.

27. Kurt M. Gutzmann, David Remkes, Timothy Lindquist, Gary McKee, "Optimization of Validation Test Suite Coverage," ACM SIGSOFT, Software Engineering Notes, 1991.

28. Kurt M. Gutzmann, David Remkes, Jeff Ragsdale, "Software Project Activity Network for Managing Development and Testing," Proceedings of Ada-Europe 1991, Athens, Greece, May 1991.

29. David Remkes, Kurt M. Gutzmann, and Frank E. Sizer, "Automated Analysis of Ada Program Design Language," Proceedings of the 1989 Washington Ada Symposium (WADAS), May, 1989.

30. Kurt M. Gutzmann, Mark Stokrp, "Integrated Reliability, Availability, and Logistics Support Simulation using RASP," Proceedings of the Society for Computer Simulation 1988 Multiconference, San Diego, CA, February 3-5, 1988, pp. 105-112

31. Kurt M. Gutzmann, "Neural Networks, Optimization, and the Traveling Salesman Problem," Proceedings of the Planning Research Corporation Technical Symposium, McLean, Va., September 26, 1987.

32. Kurt M. Gutzmann and Richard A. Wysk, "Capacity Control Policies for MRP Systems," International Journal of Production Research, London, Vol.24, No. 2, 1987, pp. 359-374, (from M.S. thesis).

33. Kurt M. Gutzmann, "Optimal Dimension of Hypercubes for Sorting," ACM Computer Architecture News, Vol. 15, No. 1, 1987.

34. Kurt M. Gutzmann, "Performance Analysis of a Hypercube Sorting Algorithm," Proceedings of the Planning Research Corporation Technical Symposium, McLean, Va., September 26, 1987.

35. Kurt M. Gutzmann, "Combinatorial Optimization Using a Continuous State Boltzmann Machine," Proceedings of IEEE First Annual Conference on Neural Networks, Volume. III, San Diego, CA, June 21-24, 1987, pp.721-734.

36. Post, S. and Gutzmann, K. "Design of Boltzmann Machines for Propositional Logic via Integer Linear Programming." Proceedings of IEEE First Annual Conference on Neural Networks, June 1987, San Diego, CA.

37. Kurt M. Gutzmann, "Concurrent Analog Simulation of Queueing Networks on a Hypercube MIMD Processor," Planning Research Corporation Technical Note TN-SE-87-1, June, 1987.

38. Kurt M. Gutzmann, "Neural Networks," Technology Newsletter, Planning Research Corporation, June 1987.

39. Kurt M. Gutzmann, "Sometimes Less is More with Hypercube Computers," Technology Newsletter, Planning Research Corporation, February 1987.

40. Kurt M. Gutzmann, "Combinatorial Optimization Using a Continuous State Boltzmann Machine," Planning Research Corporation Technical Report TR-SE-87-1, January 1987.

41. Kurt M. Gutzmann, "Computational Applications of Boltzmann Machines and Energy Minimization Processes," Proceedings of the 54th Military Operations Research Society Symposium, May 24-26, 1986, Ft. McNair, Washington D.C.; (selected as Best Paper in Working Group)

42. Kurt M. Gutzmann, "Boltzmann Machines - Computers that Learn," Technology Newsletter, Planning Research Corporation, May 1986.

43. Kurt M. Gutzmann, "Optimal Dimension of Hypercubes for Dimensional Collapse Sorting," Planning Research Corporation Technical Note TN-SE-86-1, December 1986.

44. Kurt M. Gutzmann, "Time Warp Simulation with Parallel Computers," Technology Newsletter, Planning Research Corporation, October 1985.

45. Kurt M. Gutzmann, "RASP - Reliability and Availability Simulation Program," Planning Research Corporation, Systems Engineering Note #8, May 7, 1985.

46. Kurt M. Gutzmann, "QNET - A General Queueing Network Analysis Tool," Planning Research Corporation, Systems Engineering Note #7, March 1, 1985.

47. Kurt M. Gutzmann, "Queueing Network Analysis," Technology Newsletter, Planning Research Corporation, March 1985.

48. Kurt M. Gutzmann, Charles G. Hughes, "A Large System Reliability Simulator," Proceedings of the National Joint Conference of The Institute of Management Science (TIMS) and the Operations Research Society of America (ORSA), San Francisco, California, May 14, 1984.

49. Kurt M. Gutzmann, "SubACS Reliability Modeling Techniques," SubACS Reliability Modeling Workshop, sponsored by the Naval Underwater Systems Center, Newport, Rhode Island, September 27-28, 1983.

50. Kurt M. Gutzmann, "Capacity Control Methods," Proceedings of the Factory of the Future Conference, sponsored by the Technology Transfer Society, Los Angeles, June 1983.

51. Kurt M. Gutzmann, "Capacity Control Policies in Material Resource Planning Systems," master's thesis, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, March 1983.