

## **Publication List**

### **Ranette H. Halverson**

“Dynamic Programming From an Excel Perspective,” Journal of Computing in Small Colleges, v. 28, no 4. April 2013. (With R. Simpson, C.Stringfellow). Presented (by RS) 24<sup>th</sup> Annual CCSC South Central Conference, Shreveport, LA.

“Computerized Analysis of Flowing Conditions for Use of Chemical Sticks in Natural Gas Wells,” 3<sup>rd</sup> International Conference on Cybernetics and Information Technologies, Systems and Applications (CITSA 2006), TBA, July 2006, (with J. Rhoads, N. Passos), Presented Orlando, FL.

“Computerized Trip Classification of GPS Data: A Proposed Framework,” 3<sup>rd</sup> International Conference on Cybernetics and Information Technologies, Systems and Applications (CITSA 2006), TBA, July 2006, (with T. Griffin, Y. Huang), Presented Orlando, FL.

“Data Structures from an Empirical Standpoint”, Journal of Computing in Small Colleges, v. 21, no. 4 April 2006, (with R. Simpson), Presented 17<sup>th</sup> Annual CCSC South Central Conference, Huntsville, Texas.

“Landscape Smoothing of Numerical Permutation Spaces in Genetic Algorithms”, Journal of Computing in Small Colleges, v. 19, no 4. April 2004. (With R. Simpson). Presented 15<sup>th</sup> Annual CCSC South Central Conference, Austin, Texas.

“Instructional Testing Through Wireless Handheld Devices”, Proceedings of the 33<sup>rd</sup> ASEE/IEEE Frontiers in Education Conference, November 2003, Bolder, Co. (with C. Wuthrich, T. Griffin, N. Passos).

“A Brief Study on Web Caching Applied to Mobile Web Applications”, ISCAS, Proceedings of Computers and Their Applications, p. 442-445, March 2003. (With G. Kalbfleisch, N. Passos, W. Deckert) Presented Honolulu, Hawaii.

“Accreditation: Easing the Pain of the Necessary Evil”, Proceedings of the IASTED International Conference - Computers and Advanced Technology in Education, p. 191-195, May 2002. Presented Cancun, Mexico.

“Using Parallel Evolving Methods to Discover New Shellsort Sequences”, Proceedings of the 14<sup>th</sup> International Conference on Parallel and Distributed Computing Systems, p. 472-477, August 2001 (with Richard Simpson, Tao Wang). Presented Dallas, TX.

“Theoretical Constraints on Multidimensional Retiming Design Techniques”,

Proceedings of SPIE (AeroSense) - Visual Information Processing X, p.238-245, April 2001. (With Nelson Passos, Delvin Defoe, Reynold Bailey, Richard Simpson). Presented in Poster Session by Delvin Defoe, April 19, 2001, Orlando, Florida.

“A Study of Software Pipelining for Multi-dimensional Problems”, Proceedings of International Society of Computers and their Applications (ISCA) 13<sup>th</sup> Annual Conference, Parallel and Distributed Computing Systems - 2000, 426-431, August 2000. (With Reynold Bailey, Delvin Defoe, Richard Simpson, Nelson Passos). Also presented by R. Bailey, Las Vegas, NV, August 2000.

“VHDL Design Optimization for Two-dimensional Filters”, Proceedings of International Society for Optical Engineering (SPIE) International Symposium on Science and Technology - Electronic Imaging 2000, Vol. 3970, Jan. 2000. (With Nelson Passos, Jian Song, Robert Light, Richard Simpson)

“Genetic Algorithms Using GALib”, Journal of Computing in Small Colleges, Vol. 14, No. 3, 56-63, March 1999. (With Richard Simpson).

“Women in Computing”, Journal of Computing in Small Colleges, Vol. 14, No. 3, 131-142, April 1999. Also presented at 10<sup>th</sup> Annual CCSC: South Central Conference, Austin, TX, April 16-17, 1999.

“A Brief Survey of Techniques of Loop Transformation”, Journal of Computing in Small Colleges, Vol. 14, No. 3, 193-204, March 1999. (With Leila Plummer and Nelson Passos).

“Performance Evaluation of Parallel Implementation of Nested Loop Control Structure”, Proceedings of the 11<sup>th</sup> International Conference on Computer Applications in Industry & Engineering, Las Vegas, NV., November 1998. (With Silvia Brunet, Virgil Andronache, Nelson Passos)

“Silence: An Educational Tool for Teaching Instruction-level Parallelism”, Journal of Computing in Small Colleges, Vol. 13, No. 4, 185-192, March 1998. (With Leila Plummer, Jia Hua, Nelson Passos)

“Teaching a Computer Graphics Class with DirectX”, Journal of Computing in Small Colleges, Vol. 13, No. 4, 61- 66, March 1998. (With Paulius Micikevicius, Richard Simpson)

“Precise-MD: A Software Tool for Resources Constrained Scheduling of Multi-Dimensional Applications”, Proceeding of the International Symposium on Circuits and Systems (ISCAS), May 31 - June 1, 1998. Also presented by R. Simpson as a poster session, Monterey, CA. (With Jia Hua, Obaidur Rashid, Nelson Passos, Richard Simpson.)

“An Object-Oriented Hardware/Software Co-Design Paradigm”, Proceedings of

the ISCA 13th International Conference - Computers and Their Applications, 440-443, March 25-27, 1998. Also presented at conference in Honolulu, Hawaii. (With Obaidur Rashid, Nelson Passos.)

“Introduction to Parallel Processing Through Example”, The Journal of Computing in Small Colleges, vol. 13, no. 2, 155-162, November 1997. Also presented at CCSC Rocky Mountain Conference, Farmington, N.M., Oct. 17-18, 1997.

“A Divide-and-Conquer Hypercube Algorithm for Parentheses Matching”, Proceedings of the World Multiconference on Systematics, Cybernetics and Informatics, vol. 1, 445-450 July 7-11, 1997. Also presented, Caracas, Venezuela.

“What? Me Simulate? A Basic Simulation Technique for Queuing Systems”, Journal of Computing in Small Colleges, vol. 12, no. 4, 26-30, March 1997. Also presented at CCSC South-Central Conference, San Antonio, TX, April 11-12, 1997.

“Simple Deterministic and Randomized Algorithms for Linked List Ranking on the EREW PRAM Model”, Parallel Processing Letters, vol.4, no. 1 & 2, 15-27, June 1994. (With Sajal K. Das)

“Efficient Parallel Algorithms for Tree-Related Problems Using the Parentheses Matching Strategy”, Proceedings of the 8th International Parallel Processing Symposium, 362-367, April 26-29, 1994. Also presented, Cancun, Mexico. (With Sajal K. Das, Kwang Bae Min)

In the 1980's and early 1990's Dr. Halverson was actively involved in the Texas Computer Education Association. At the annual conferences she presented 8 papers that were published in conference proceedings. This annual state conference was organized to enhance the computer knowledge of public school teachers. The papers were screened for relevant topics, but were not subject to a rigorous review process.

"You Can Do Turbo Pascal Graphics", Proceedings of the Texas Computer Education Association, 1991.

"All Together Now", Proceedings of the Texas Computer Education Association, 1990.

"Ignorance is Bliss", Proceedings of the Texas Computer Education Association, 1990.

"Microprocessor Supercomputers", Proceedings of the Texas Computer Education Association, 1988.

"The Missing Link", Proceedings of the Texas Computer Education Association, 1988.

"My Student, the Computer", Proceedings of the Texas Computer Education Association, 1986.

"What Should We Teach Our Teachers", Proceedings of the Texas Computer Education Association, 1985.

"Nassi-Schneidermann Diagrams - An Alternative to Classical Flowcharting Texas Computer Education Association, 1984.

## **Workshops**

“Programming with Alice”, Journal of Computing in Small Colleges (abstract published), April 2007, Presented 18<sup>th</sup> Annual CCSC South Central Conference, Wichita Falls, Texas.

“Simulation with Enterprise Dynamics Software”, Association for Computer Educators in Texas Conference, Presented October 2007, San Antonio, Texas.

“Simulation with Enterprise Dynamics Software”, Journal of Computing in Small Colleges (abstract published), April 2006, Presented 17<sup>th</sup> Annual CCSC South Central Conference, Huntsville, Texas.