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of
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EDUCATION

B.A. (Mathematics) American International College, Springfield, Mass., 1962.

M.A. (Mathematics) University of Illinois, Champaign-Urbana, Illinois, 1964.

Ph.D. (Mathematics) The Ohio State University, Columbus, Ohio, 1971.

M.S. (Computer Science) The Ohio State University, Columbus, Ohio, 1978.

POSITIONS HELD

Denison University, 1964–.

Acting Director of the Computer Center, Denison University, 1975–76.

Visiting Lecturer, Computer and Information Science Department, The Ohio State University, 1979.

Visiting Professor, Department of Statistics, The Ohio State University, 1980.

Chair, Department of Mathematical Sciences, Denison University, 1985–90.

Benjamin Barney Professor of Mathematics, Denison University, 1990–2002.

Emeritus Professor of Mathematics and Computer Science, 2003–.

Coordinator of Mellon Grants, 2003–.

PUBLICATIONS

A. Books:

- [1] Dudewicz E. J. and Karian, Z. A. (2002). Chapter on “Simulation Languages” in *Encyclopedia of Information Systems*, (Hossein Bidgoli, Ed.), Academic Press, San Diego, CA.
- [2] Karian, Z. A. and Dudewicz, E. J. (2000). *Fitting Statistical Distributions: The Generalized Lambda Distribution and Generalized Bootstrap Methods*, CRC Press, Boca Raton, FL.
- [3] Karian, Z. A. and Dudewicz, E. J. (1999). *Modern Statistical, Systems, GPSS Simulation*, Second Edition, CRC Press, Boca Raton, FL. (Initial edition (1991): Computer Science Press; Arabic Edition to be published in 1999 by King Saud University Press, Riyadh, Saudi Arabia.)
- [4] Karian, Z. A. and Tanis, E. A. (1999). *Probability and Statistics Explorations with Maple*, Second Edition, Prentice Hall Inc., Englewood Cliffs, NJ. (Initial edition (1995): Prentice Hall Inc.)
- [5] Karian, Z. A. (ed.) (1992). *Proceedings of the Denison Conference on the Use of Symbolic Computation in Undergraduate Mathematics*, Mathematical Association of America, Washington, D.C.
- [6] Karian, Z. A. (ed.) (1992). *Symbolic Computation in Undergraduate Mathematics Education*, MAA Notes No. 24, Mathematical Association of America, Washington, D.C.
- [7] Garfunkel, S. (Project Director), (1991). *For All Practical Purposes: An Introduction to Contemporary Mathematics*, Second Edition, W. H. Freeman and Company (author of chapters on Computer Algorithms, Codes, Computer Data Storage, and Computer Graphics), New York.
- [8] Dudewicz, E. J. and Karian, Z. A. (1985). *Modern Design and Analysis of Discrete-Event Computer Simulations*, IEEE Computer Society Press, Washington D. C.

B. Papers:

- [1] Karian, Z.A. and Dudewicz, E.J. (to appear). “Computational Issues in Fitting Statistical Distributions to Data,” *American Journal of Mathematical and Management Sciences*.
- [2] Dudewicz, E. J. and Karian, Z. A. (2006). “Exact Heteroscedastic Discriminant Analysis, with Tables: Case $k = 2$ Univariate Populations,” *J. of Combinatorics, Information & Systems*, 31(1–4), 255–265.
- [3] Dudewicz, E. J., Zhang, C. X. and Karian, Z. A. (2004). “The Completeness and Uniqueness of Johnson’s System in Skewness-Kurtosis Space,” *Communications in Statistics: Theory and Methods*, 33(9), 2097–2116.

- [4] Karian, Z. A. and Dudewicz, E. J. (2003). “Comparison of GLD Fitting Methods: Superiority of Percentile Fits to Moments in L^2 Norm,” *Journal of the Iranian Statistical Society*, 2(2), 171–187.
- [5] Karian, Z. A. (2003). “A New Approach to Probability and Statistics Instruction,” Proceedings of the European Society for Research in Mathematics Education.
- [6] Karian, Z. A. and Dudewicz, E. J. (1999). “Fitting the Generalized Lambda Distribution to Data: A Method Based on Percentiles,” *Communications in Statistics: Simulation and Computation*, 28(3), 793–819.
- [7] Dudewicz, E. J. and Karian, Z. A. (1999). “The Role of Statistics in IS/IT: Practical Gains from Mined Data,” *Information Systems Frontiers*, 1(3), 259–266.
- [8] Dudewicz, E. J. and Karian, Z. A. (1999). “Fitting the Generalized Lambda Distribution (GLD) System by a Method of Percentiles, II: Tables,” *American Journal of Mathematical and Management Sciences*, 19(1 & 2), 1–73.
- [9] Holthaus, C., Karian, Z. A. and Klatt, K. (1998). “DNASEQ: A Simulation of the Sanger Method of DNA Sequencing,” *MapleTech*, 5(1), 58–61.
- [10] Karian, Z. A. (1997). “Use of Symbolic Computation in Statistics,” *Proceedings of the 51st Biennial Session of the International Statistical Institute*, 1997.
- [11] Karian, Z. A. (1997). “Technology in Teaching Statistics: Symbolic Computation,” *Proceedings of the 51st Biennial Session of the International Statistical Institute*, 1997.
- [12] Karian, Z. A. Dudewicz, E. J. and McDonald, P. (1996). “The Extended Generalized Lambda Distribution System for Fitting Distributions to Data: History, Completion of Theory, Tables, Applications, the ‘Final Word’ on Moment Fits,” *Communications in Statistics: Simulation and Computation*, 25(3), 611–642.
- [13] Dudewicz, E. J. and Karian, Z. A. (1996). “The Extended Generalized Lambda Distribution System for Fitting Distributions to Data with Moments II: Tables,” *American Journal of Mathematical and Management Sciences*, Special Volume on Advances in Modern Simulation, 16(3 & 4), 271–332.
- [14] Karian, Z. A. (1995). “Teaching Mathematics Through Symbolic Computation,” *Proceedings of the Asian Conference on Technology in Mathematics* (paper was presented as an invited Plenary Lecture at the Conference).