

**DEMETRIOS KAZAKOS**

- Present Position:** **Professor, Dept of Mathematics**  
**Texas Southern University**  
**Tel: 713-313-7074; e-mail: [kazakosd@tsu.edu](mailto:kazakosd@tsu.edu)**
- Education:** Diploma in Electrical, Mechanical and Industrial Engineering from National Polytechnic University of Athens, Greece, 1967  
Master of Arts in Electrical Engineering, Princeton University, 1970  
Doctor of Philosophy in Electrical Engineering, University of Southern California, 1973
- Positions:**
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| <b>2011- Present</b> | <b>Professor, Texas Southern University</b>   |
| <b>2009-2011</b>     | <b>Program Officer, National Science Foundation</b>   |
| 2006- 2008           | Professor and Dean, College of Science and Technology, Texas Southern University                          |
| 2004-2006            | Professor and Chairman, Electrical and Computer Engineering Department University of Idaho                |
| 2001-2004            | Professor and Chairman, Electrical Engineering and Computer Science Department, University of Toledo      |
| 1993-1994            | Department Head, Electrical and Computer Engineering Department, University of Louisiana                  |
| 1985-1993            | Professor, Electrical Engineering and Mathematics, University of Virginia,                                |
| 1980-1985            | Associate Professor of Electrical Engineering and Mathematics, University of Virginia                     |
| 1975-1980            | Assistant Professor, Electrical Engineering Department, State University of New York at Buffalo, New York |
- Research and Teaching Interests:** Communication Theory, Computer Communication Networks; Image Processing; Estimation and Detection of Signals; Neural Networks
- Honors:** Elected Fellow of the Institute of Electrical and Electronics Engineers, for contributions to “detection and estimation theory, with applications to multi-user data communications and pattern recognition.” Effective: January 1, 1992. **Life Fellow in 2009**
- Editorships**
- IEEE Transactions on Communications. 1988 – 1998
  - Wireless Networking Journal, 1998 – Present
  - Mobile Networking and Distributed Computing, 2000-Present
  - WSEAS Transactions on Mathematics
  - 21st Century Engineer Journal
- Selected Refereed Publications (from the full list of 165)**
- Books Nonparametric Methods in Communication Systems, co-editor and contributor, Marcel Dekker, Inc., New York, 1977 .
- (with P. Papantoni-Kazakos) Detection and Estimation, Computer Science Press, 1989.
- Selected Book Chapters (with P. Papantoni-Kazakos) “Sharing a Processor for Monitoring Changes in Quality of Several Communications Links,” in Advances in Communications, D. Reidel Publishing Co. (1980).
- “Low Sample Support Adaptive Parameter Estimation and Packet-Data Detection for Mobile Communications” by H.Quian, S.Batalama, and D.Kazakos, Third Edition of the Electrical Engineering Handbook, edited by Richard Dorf, CRC Press, December 2005

“Parameter Estimation” by P.Xiong, S.N.Batalama and D.Kazakos, Third Edition of the Electrical Engineering Handbook, edited by Richard Dorf, CRC Press, December 2005

#### Selected Refereed Journal Papers

“Recursive Estimation of Prior Probabilities Using a Mixture,” IEEE Trans. on Info. Theory (March 1977).

“Quantization Complexity and Training Sample Size in Detection,” IEEE Trans. on Info Theory (March 1978).

“The Bhattacharyya Distance and Detection between Markov Chains,” IEEE Trans. on Info. Theory (November 1978).

(with L. Merakos) “On Retransmission Control Policies in Multi-access Channels,” IEEE Transactions on Automatic Control, (January 1985).

(with Titsa Papantoni) “A Limited Sensing Protocol for Multi-User Packet Radio Systems,” IEEE Transactions in Communications (April 1989).

I. Stavrakakis, D. Kazakos, “On the approximation of the output process of multi-user random access communication networks,” IEEE Transactions on Communications (February 1990).

I. Stavrakakis, D. Kazakos, “Performance Analysis of a Star Topology of Interconnected Networks under 2d-Order Markov Network Output Processes,” IEEE Trans. on Communications (October 1990).

I. Stavrakakis, D. Kazakos, “A Multi-user Random Access Communications Systems for Users With Different Priorities,” IEEE Trans. on Communications (November 1991).

D.Kazakos, S .Makki, “When are two multivariate random processes indistinguishable”, Journal of Combinatorial Optimization, (JOCO) Vol 11, No 3, May 2006.

D.Kazakos, S.Makki, W.Peng., “New Performance Bounds in Signal Parameter Estimation Under Mismatch”, Accepted in the Journal of Applied Mathematical Sciences, (JAMS), 2007

#### Selected Papers in Refereed Conference Proceedings

1. Stephany Ogbonmwam, Wei Li, and D.Kazakos, “Multithreshold Bandwidth Reservation Scheme of an Integrated Voice/Data Wireless Network,” WIRELESSCOM 2005, Maui, Hawaii, June 13-16, 2005.
2. Wei Li, S.Man, Yuhon Zhang and Demetrios Kazakos, “Numerical Analysis for the Optimal Reserved Channel Numbers in Reserved Channel Scheme with Hybrid Revenue of Incomplete and Complete Calls”, WIRELESSCOM 2005, Maui, Hawaii, June 13-16, 2005.
3. Deepak Thometi, Wei Li and Demetrios Kazakos, “Improved Quality of Service for WCDMA Network and Coexistence with Indoor Wireless Technologies”, WIMOB 2005, IEEE International Conference on Wireless and Mobile Computing, Networking and Communications, Montreal, Canada, August 22-24, 2005.