

Biography

Sundar G. Sankaran received his Bachelor of Engineering degree in Electronics and Communication Engineering in 1992 from Anna University, Madras, India and his Master of Science degree in Electrical Engineering in 1996 from Virginia Tech, where he is currently pursuing his doctoral degree in Electrical Engineering. From 1992 to 1994, he was at Infosys Technologies Limited, Bangalore, India, as a Systems Analyst, where he worked on digital signal processing hardware design and embedded software development. Since 1995 he has been a Graduate Research Assistant in the DSP Research Laboratory at Virginia Tech. Upon graduation, he will be joining ArrayComm in San Jose CA as a Research Engineer.

His research interests are primarily in the area of Digital Signal Processing and its applications. His research at the DSPRL, under the supervision of Prof. A. A. (Louis) Beex, has resulted in the following publications.

- [A] S. G. Sankaran and A. A. (Louis) Beex, "Convergence Behavior of Affine Projection Algorithms," *IEEE Transactions on Signal Processing*, April 2000.
- [B] S. G. Sankaran and A. A. (Louis) Beex, "Fast Generalized Affine Projection Algorithm," *International Journal of Adaptive Control and Signal Processing*, February 2000.
- [C] S. G. Sankaran and A. A. (Louis) Beex, "Hyperspherical Parametrization for Unit-Norm based Adaptive IIR Filtering," *IEEE Signal Processing Letters*, pp. 318-320, December 1999.
- [D] S. G. Sankaran and A. A. (Louis) Beex, "Stereophonic Acoustic Echo Cancellation Using NLMS with Orthogonal Correction Factors," *Proceedings of International Workshop on Acoustic Echo and Noise Control*, Pocono Manor, PA, pp. 40-43, September 1999.
- [E] S. G. Sankaran and A. A. (Louis) Beex, "Convergence Analysis Results for the Class of Affine Projection Algorithms," *Proceedings of the 1999 IEEE International Symposium on Circuits and Systems (ISCAS)*, Orlando, FL, vol. III, pp. 251-254, May 1999.
- [F] S. G. Sankaran and A. A. (Louis) Beex, "Balanced-Realization Based Adaptive IIR Filtering," *Proceedings of International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Phoenix, AZ, pp. 1837-1840, March 1999.
- [G] A. A. (Louis) Beex and S. G. Sankaran, "Adaptive IIR Filtering using Input/Output Orthogonalization," *Proceedings of the Thirty-Second Annual Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, CA, pp. 503-507, November 1998.
- [H] S. G. Sankaran and A. A. (Louis) Beex, "Blind Equalization and Interference Cancellation," *Proceedings of Wireless 98 (The 10th International Conference on Wireless Communications)*, Calgary, Alberta, Canada, pp. 259-268, July 1998.
- [I] S. G. Sankaran and A. A. (Louis) Beex, "An Unbiased Equation-Error-Based Adaptive IIR Filtering Algorithm," *Proceedings of International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Seattle, WA, pp. 1425-1428, May 1998.
- [J] S. G. Sankaran and A. A. (Louis) Beex, "Normalized LMS Algorithm with Orthogonal Correction Factors," *Proceedings of the Thirty-First Annual Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, CA, pp. 1670-1673, November 1997.
- [K] S. G. Sankaran and A. A. (Louis) Beex, "Acoustic Echo and Noise Canceler Improvements for Hands-free Telephones," *Proceedings of IEEE Southeastcon*, Blacksburg, VA, pp. 148-150, April 1997.