

List of Scientific and Professional Publications**Shlomo Shamai (Shitz)****A. Theses**

“Digital Continuous Phase Modulation”, M.Sc Dissertation, December 1981.

“Communication with Envelope Constrained Signals”, D.Sc. Dissertation, January 1986.

B. Published papers

1. S. Shamai (Shitz) and Y.Y. Zeevi, On the Duality of Time and Frequency Domain Signal Reconstruction from Partial Information, *IEEE Trans. on ASSP*, ASSP-33, No. 6, pp. 1486–1498, Dec. 1985.
2. I. Kalet, S. Shamai (Shitz), Z. Haddad, E. Trachtman and Y. Baruch, Examples of Continuous Phase Modulation Using Discriminator Detection, *IEEE Trans. on Communications*, Vol. COM-34, No. 11, November 1986, pp. 1148–1150.
3. S.R. Curtis, S. Shamai (Shitz) and A.V. Oppenheim, Reconstruction of Two-Dimensional Signals from Zero Crossings, *IEEE Trans. on ASSP*, Vol. 35, No. 6, pp. 890–893, June 1987.
4. Y.Y. Zeevi, A. Gavriely and S. Shamai (Shitz), Image Reconstruction by Zero and Sinewave Crossings, *JOSA. A.*, Vol. 4, No. 11, pp. 2045–2060, Nov. 1987.
5. S. Shamai (Shitz), On Permutation Invariant Multiple Access Channels with Application to Multiple Access Spread - Spectrum, *AEÜ (Electronics and Communication)*, Band 41, Heft. 6, pp. 347–355, Nov./Dec. 1987.
6. M. Polacek, S. Shamai (Shitz) and I. Bar David, On Threshold Extension by Click Noise Elimination, *IEEE Trans. on Communications*, Vol. 36, No. 3, pp. 375–380, March 1988.
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8. I. Bar-David and S. Shamai (Shitz), On the Rice Model of Noise in FM Receivers, *IEEE Trans. on Information Theory*, Vol. 34, No. 6, pp. 1406–1419, November 1988.
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10. Y.Y. Zeevi and S. Shamai (Shitz), Image Representation by Zero Crossings, Chapter 6 in, *Image Understanding 1989*, edited by S. Ullman and W. Richards, Abex Publishing Corporation, N.J. 1990.
11. N. Chayat and S. Shamai (Shitz), Extension of an Entropy Property for Binary Input Memoryless Symmetric Channels, *IEEE Trans. on Information Theory*, Vol. 35, No. 5, pp. 1077–1079, Sept. 1989.
12. S. Shamai (Shitz) and I. Bar David, Upper Bounds on the Capacity of a Constrained Gaussian Channel, *IEEE Trans. on Information Theory*, Vol. 35, No. 5, pp. 1079–1084, Sept. 1989.

13. I. Bar David and S. Shamai (Shitz), Information Rates for Magnetic Recording with a Slope Limited Magnetization Model, *IEEE Trans. on Information Theory*, Vol. 35, No. 5, pp. 956–962, Sept. 1989.
14. S. Shamai (Shitz), On Information Rates of Bandwidth Restricted Noisy Phase Channels, *AEÜ (Electronics and Communication)*, Band 43, Heft 6, pp. 350–360, Nov./Dec. 1989.
15. I. Kalet and S. Shamai (Shitz), On the Capacity of a Twisted-Wire Pair: Gaussian Model, *IEEE Trans. on Communications*, Vol. 38, No. 3, pp. 379–383, March 1990.
16. S. Shamai (Shitz), On the Capacity of a Twisted-Wire Pair: Peak Power Constraints, *IEEE Trans. on Communications*, Vol. 38, No. 3, pp. 368–378, March 1990.
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18. S. Shamai (Shitz) and I. Bar David, On the Capacity Penalty due to Bandwidth Restrictions with Applications to Rate-Limited Binary Signaling, *IEEE Trans. on Information Theory*, Vol. 36, No. 3 pp. 623–627, May 1990.
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