

C. Conferences (Refereed)

1. S. Shamai (Shitz), "Optimal F.I.R. Linear Detection Filter for Digital PAM in the Presence of Additive Gaussian Noise and Intersymbol Interference", Proceedings of MELECOM - May 1981, Tel-Aviv, Israel.
2. S. Shamai (Shitz), "Digital Continuous Phase Modulation with Partially Coherent Detection", Proceedings of MELECOM - May 1981, Tel-Aviv, Israel.
3. S. Shamai (Shitz), "Maximum Likelihood Detection of Discrete Time PAM in Non-Gaussian Noise". Presented at the 14th Convention of Electrical and Electronics Engineers in Israel (IEEE - Israel) March 1985, Tel-Aviv, Israel. This paper has been awarded first place in the student paper contest at this convention.
4. S. Shamai (Shitz) and Y.Y. Zeevi, "On Signal Representation By Partial Information". Presented at the 14th Convention of IEEE - Israel, March 1985, Tel-Aviv, Israel.
5. A. Gavriely, S. Shamai (Shitz) and Y.Y. Zeevi, "Image Reconstruction From Sine Wave Crossings". Presented at the 14th Convention of IEEE - Israel, March 1985, Tel-Aviv, Israel.
6. I. Kalet, S. Shamai (Shitz), Z. Haddad and A. Trachtman, "Continuous Phase Modulation - Discriminator Detection". Presented at the 14th Convention of IEEE - Israel, March 1985, Tel-Aviv, Israel.
7. A. Gavriely, S. Shamai (Shitz) and Y.Y. Zeevi, "Image Reconstruction from Partial Information - Zeros and Sine Wave Crossings". Presented at the Dixieme Colloque sur le Traitement du Signal et ses Applications, Nice France 1985.
8. A. Gavriely, S. Shamai (Shitz) and Y.Y. Zeevi, "Image Reconstruction from Sine Wave Crossings". Presented at the ACTA Polytechnica Scandinavica Proceedings of Image Science, June 1985, Helsinki Finland.
9. S. Shamai (Shitz) and I. Bar David, "Capacity Bandwidth Trade-Off For A Class Of Constant Envelope Modulations". Presented at the International Symposium on Information Theory (ISIT), Brighton, England, 1985.
10. S. Shamai (Shitz) and I. Bar David, "Capacity of Peak and Average-Power-Constrained Quadrature Gaussian Channels". Presented at the International Symposium on Information Theory (ISIT), Ann-Arbor, Michigan, 1986.
11. M. Polacek, S. Shamai (Shitz) and I. Bar David, "On Threshold Extending FM Receivers". Presented at the 15th Convention of IEEE - Israel, April 1987, Tel-Aviv, Israel.
12. I. Bar David, B. Globen and S. Shamai (Shitz), "Envelope-Aided Discriminator Demodulation of CPFSK". Presented at the 15th Convention of IEEE - Israel, April 1987, Tel-Aviv, Israel.
13. S. Shamai (Shitz), "Information Transfer by Constant Envelope Signaling". Presented at URSI, August 1987, Tel-Aviv, Israel.
14. S. Shamai (Shitz) and I. Bar David, "Upper Bounds on Capacity for a Constrained Gaussian Channel". Presented at the Fourth Annual Cornell Summer Workshop on Systems, Control and Communications, August 1988. Also appears in Abstracts of Papers, pp. 85, ISIT-1988, Kobe Japan, June 1988.
15. S. Shamai (Shitz) and I. Bar David, "An Overview of Information Theoretic Models for Magnetic Recording", presented at the Center for Magnetic Recording Research Workshop on Modulation and Coding for Digital Recording Systems, San Diego, California, January 1989.

16. D. Reinitz and S. Shamai (Shitz), "Detection of Coded CPFSK Signals with a Sampling Discriminator Followed by a Viterbi Decoder", presented at the 16th Convention of IEEE - Israel, March 1989, Tel-Aviv, Israel.
17. Y. Dallal and S. Shamai (Shitz), "On the Error Probability of Noisy Phase Channels Using MFSK", presented at the 16-th Convention of IEEE - Israel, March 1989, Tel-Aviv, Israel.
18. Y. Kofman and S. Shamai (Shitz), "On the Capacity of Binary and Gaussian Channels with Run-Length Limited Inputs", presented at the 16-th Convention of IEEE - Israel, March 1989, Tel-Aviv, Israel.
19. S. Shamai (Shitz) and A. Dembo, "Bounds on the Binary Symmetric Cut-Off Rate with Application to the Peak- and Slope-Limited Magnetization Model", presented at the 1989 Workshop on Information Theory, Cornell University, Ithaca, N.Y., U.S.A., June 1989.
20. S. Shamai (Shitz), "Overview of Information Theoretic Models for Magnetic Recording", presented at the French-Israel Symposium on Advanced Topics in Telecommunication, Herzlia, Israel, December 1989.
21. S. Shamai (Shitz) and E. Zehavi, "On the Capacity of the Bit-Shift Magnetic Recording Channel", presented at the 1990 IEEE International Symposium on Information Theory, San-Diego, California, January 1990.
22. A. Lapidoth and S. Shamai (Shitz), "On the Capacity of a Spectrally Constrained Poisson-Type Channel", presented at the 1990 IEEE International Symposium on Information Theory, San-Diego, California, January 1990.
23. Y. Dallal and S. Shamai (Shitz), "Asymptotic Behavior of MFSK in Noisy Phase Channels", presented at the 1990 IEEE International Symposium on Information Theory, San-Diego, California, January 1990.
24. S. Shamai (Shitz), E. Zehavi and G. Kaplan, "Information Rates for the Bit-Shift Magnetic Recording Channel", presented at the 1990 Workshop on Information Theory, June 1990, Koningshof Veldhoven, The Netherlands.
25. Y. Dallal and S. Shamai (Shitz), "Coherent Lightwave DPSK with Time Diversity", presented at the 1990 Bilkent International Conference on New Trends in Communication, Control and Signal Processing, Ankara, Turkey, July 1990.
26. Y. Kofman, S. Shamai (Shitz) and E. Zehavi, "Analysis of a Multilevel Coded Modulation System", presented at the 1990 Bilkent International Conference on New Trends in Communication, Control and Signal Processing, Ankara, Turkey, July 1990.
27. Y. Dallal and S. Shamai (Shitz), "Performance Bounds for Coherent Lightwave BFSK with Hard-Decision Decoding", presented at the 28-th Allerton Conference, October 1990.
28. Y. Dallal and S. Shamai (Shitz), "Concatenated Coding for Coherent Lightwave DPSK", presented at the 1990 International Symposium on Information Theory and its Applications, Hawaii, November 1990.
29. Y. Dallal and S. Shamai (Shitz), "Capacity Limited Performance of Coherent Lightwave BFSK with Hard-Decoding", presented at the 1990 International Symposium on Information Theory and Its Applications, Hawaii, November 1990.
30. E. Zehavi and S. Shamai (Shitz), "Bounds on the Capacity of the Peak Shift Magnetic Recording Channel", presented at the Global Communications Conference, San-Diego, California, December 1990.

31. A. Lapidoth and S. Shamai (Shitz), "Bounds on the Capacity of a Poisson Channel with Spectral Restrictions", presented at the 17th Convention of IEEE-Israel, May 1991, Tel-Aviv.
32. G. Kaplan and S. Shamai (Shitz), "Bounds on the Cut-Off Rate of the Peak Shift Magnetic Recording Channel", presented at the 17th Convention of IEEE-Israel, May 1991, Tel-Aviv.
33. N. Chayat and S. Shamai (Shitz), "Bounds on the Capacity of a Binary Input AWGN Channel with Intertransition Duration Restrictions", presented at the 17th Convention of IEEE-Israel, May 1991, Tel-Aviv.
34. S. Shamai (Shitz), L.H. Ozarow and A.D. Wyner, "Information Rates for a Discrete-Time Gaussian Channel with Intersymbol Interference and Stationary Inputs", presented at the 1990 IEEE International Symposium on Information Theory, Budapest, Hungary, June 1991.
35. Y. Dallal and S. Shamai (Shitz), "Asymptotically Robust Communication Using an Orthogonal Codebook over Energy Limited Channels", presented at the 1990 IEEE International Symposium on Information Theory, Budapest, Hungary, June 1991 and at the UK-USSR International Symposium on Communication Theory and Applications, Scotland, September 1991; presented also in part at the 17th Convention of IEEE-Israel, May 1991, Tel-Aviv.
36. Y. Dallal and S. Shamai (Shitz), "Concatenated Coding for Heterodyne Optical FSK and OOK Signals Impaired by Phase Noise", presented at the 1990 IEEE International Symposium on Information Theory, Budapest, Hungary 1991.
37. G. Kaplan and S. Shamai (Shitz), "On Information Rates for Compound Channels", presented at the 1990 IEEE International Symposium on Information Theory, Budapest, Hungary 1991.
38. S. Shamai (Shitz) and G. Kaplan, "Error Exponents for Block Fading Gaussian Channels with a Decoding Delay Constraint", presented at the 21 Annual 1991 IEEE Communication Theory Workshop, Rhodes, Greece, July 1991.
39. Y.E. Dallal and S. Shamai (Shitz), "Analytical Techniques for Heterodyne Optical Systems". presented at the 21 Annual 1991 IEEE Communication Theory Workshop, Rhodes, Greece, July 1991.
40. G. Kaplan and S. Shamai (Shitz), "Error Exponents and Outage Probabilities for the Block-Fading Gaussian Channel, presented at the International Symposium on Personal, Indoor and Mobile Radio Communications, King's College - University of London, London, England, September 1991.
41. Y.E. Dallal and S. Shamai (Shitz), "Communication Under the Noisy Phase Regime", invited paper presented at the Franco-Israeli Symposium on Electro-Optics, Paris, France, October 1991.
42. L.H. Ozarow, A.D. Wyner and S. Shamai (Shitz), "Capacity Considerations for TDMA Cellular Mobile Radio", presented at the International Commsphere '91 Symposium, Herzlia, Israel, December 1991.
43. E. Trachtman, I. Kalet and S. Shamai (Shitz), "Limiter Discriminator Detection of Tomlinson Precoded CPM Signals", presented at the International Comm-sphere '91 Symposium, Herzlia, Israel, December 1991.
44. S. Shamai (Shitz), "Overview of Information Theoretic Models for Magnetic Recording", invited paper presented at the ETH/Technion Workshop, Zurich, Switzerland, February 1992.

45. Y. Dallal and S. Shamai (Shitz), “Analytical Techniques Assessing the Performance of Optical Amplifiers”, presented at the Third Optical Meeting on Optical Amplifiers and their Applications, Santa Fe, New Mexico, USA, June 1992.
46. Y. Kofman, E. Zehavi and S. Shamai (Shitz), “Convolutional Codes for Non-coherent Detection”, presented at the URSI '92 International Symposium on Signals, Systems and Electronics, Issy-les-Moulineaux, France, September 1992.
47. S. Shamai (Shitz) and S. Verdú, “Least Favorable Noise Distributions with Fixed Signal-to-Noise Ratios”, (invited paper) presented at the Communication Theory Mini Conference, Orlando Florida, December 1992.
48. S. Shamai (Shitz) and S. Verdú, “Worst-Case Power-Constrained Noise for Binary-Input Channels”, presented at the 1993 IEEE International Symposium on Information Theory, San Antonio, Texas, January 1993.
49. G. Kaplan and S. Shamai (Shitz), “Error Performance over the Uninterleaved Rician Channel”, presented at the 1993 IEEE International Symposium on Information Theory, San Antonio, Texas, January 1993.
50. N. Merhav, G. Kaplan, A. Lapidoth and S. Shamai (Shitz), “On Information Rates of Mismatched Decoders”, presented at the 1993 IEEE International Symposium on Information Theory, San Antonio, Texas, January 1993.
51. Y. Kofman, E. Zehavi and S. Shamai (Shitz). “Convolutional Codes for Noncoherent Detection: Performance Analysis and Structural Properties”, presented at the 1993 IEEE International Symposium on Information Theory, San Antonio, Texas, January 1993.
52. S. Shamai (Shitz) and N. Chayat, “Bounds on the Capacity of an AWGC Channel with Intertransition-Constrained Bipolar Inputs”, presented at the 1993 IEEE International Symposium on Information Theory, San Antonio, Texas, January 1993.
53. Y. Dallal and S. Shamai (Shitz), “Power Moment Characterization for Noisy Phase Lightwave Systems”, presented at the 1993 IEEE International Symposium on Information Theory, San Antonio, Texas, January 1993.
54. S. Shamai (Shitz), “On the Information Capacity of the Continuous-Time Gaussian Channels with Constrained Bipolar Inputs”, (invited paper) presented at the 1993 Information Theory Workshop, Susono-shi, Shizouka, Japan, June 4–8, 1993.
55. G. Kaplan, S. Shamai (Shitz) and Y. Kofman, “On Convolutional Code Selection for an Uninterleaved, Bursty Rician Channel”, presented at the French-Israeli Workshop in Algebraic Coding, ENST, Paris, July 1993.
56. S. Shamai (Shitz) and R. Laroia, “The Intersymbol Interference Channel: Lower Bounds on Capacity and Channel Precoding Loss”, presented at the Twenty-Eight Annual Conference on Information Sciences and Systems, Princeton, U.S.A., March 1994.
57. S. Shamai (Shitz), “Information Rates by Over-Sampling the Sign of a Bandlimited Process”, presented (long paper) at the 1994 IEEE International Symposium on Information Theory, Trondheim, Norway, July 1994.
58. S. Shamai (Shitz), and S.A. Raghavan, “On the Generalized Symmetric Cut-Off Rate for Finite State Channels”, presented at the 1994 IEEE International Symposium on Information Theory, Trondheim, Norway, July 1994.

59. D. Ben-Eli, Y. Dallal and S. Shamai (Shitz), "Performance Bounds and Cut-Off Rates of Quantum Limited OOK with Optical Amplification", presented at the 1994 IEEE International Symposium on Information Theory, Trondheim, Norway, July 1994.
60. G. Kaplan and S. Shamai (Shitz), "On Error Exponents, Coding and Feedback for Decoding Delay Constrained Communication Systems", presented at the 1994 IEEE International Symposium on Information Theory, Trondheim, Norway, July 1994.
61. Y. Dallal, N. Tal and S. Shamai (Shitz), "On Noncoherent Detection of Noisy Phase OOK Signals", presented at the 1994 IEEE International Symposium on Information Theory, Trondheim, Norway, July 1994.
62. S. Shamai (Shitz) and A.D. Wyner, "Information Theoretic Considerations for Simple Multiple-Access Cellular Communication Channels", presented at the 1994 International Symposium on Information Theory and Its Applications (ISITA '94), Sydney, Australia, November 1994.
63. S. Shamai (Shitz) and S. Verdú, "Capacity of Channels with Uncoded Side Information", presented at the French-Israeli Workshop on Coding and Information Integrity, Tel-Aviv, Israel, November 1994.
64. Y. Kofman, E. Zehavi and S. Shamai (Shitz), " nd -Convolutional Codes: Performance and Structural Analysis" presented at the Eighteen Convention of Electrical and Electronics Engineers in Israel, Tel-Aviv, Israel, March 1995.
65. G. Kaplan and S. Shamai (Shitz), "On Achievable Information Rates over Slowly Fading Channels with Ideal and Partial Side Information", presented at the Eighteen Convention of Electrical and Electronics Engineers in Israel, Tel-Aviv, Israel, March 1995.
66. R. Ashkenazi and S. Shamai (Shitz), "Suboptimal Detection for Intersymbol Interference Inflicted Cable Channels", presented at the Eighteen Convention of Electrical and Electronics Engineers in Israel, Tel-Aviv, Israel, March 1995.
67. S. Shamai (Shitz) and A. D. Wyner, "Information Theoretic Considerations for Cellular Multiple Access Channels in the Presence of Fading and Inter-Cell Interference", (invited paper), presented at the 1995 Information Theory Workshop on Information Theory, Multiple Access and Queueing, St. Louis, Missouri, April 1995.
68. S. Shamai (Shitz) and S. Verdú, "Information-Theoretic Approach to Parallel Concatenated Codes", (invited paper), presented at the IEEE Communication Theory Workshop, Santa Cruz, California, April 1995.
69. S. Shamai (Shitz) and A. D. Wyner, "Information Theoretic Considerations for Intra and Inter Cell Multiple Access Protocols in Mobile Fading Channels", (invited paper), presented at the 1995 Information Theory Workshop, Ryzdzya, Poland, June 1995.
70. S. Shamai (Shitz) and S. Verdú, "The Empirical Distribution of Good Codes", presented at the 1995 IEEE International Symposium on Information Theory, Whistler, British Columbia, Canada, September 1995.
71. S. Shamai (Shitz) and S. Verdú, "Capacity of Channel with Uncoded and Coded Side Information", presented (long paper) at the 1995 IEEE International Symposium on Information Theory, Whistler, British Columbia, Canada, September 1995.

72. Y. Dallal, G. Jacobsen and S. Shamai (Shitz), "On the Impact of Laser's Relaxation Oscillation on Quadratically Detected Heterodyned Lightwave Signals", presented at the 1995 IEEE International Symposium on Information Theory, Whistler, British Columbia, Canada, September 1995.
73. S. Shamai (Shitz), S. Verdú and R. Zamir, "Information Theoretic Aspects of Systematic Transmission with Distortion", presented at the Oberwolfach Meeting on Information Theory, Oberwolfach, Germany, February 1996.
74. S. Shamai (Shitz) and S. Verdú, "An Information Theoretic Approach to Turbo-Codes", presented at the Mediterranean Workshop on Coding and Applications, Mallorca, Spain, February/March 1996.
75. A. Lapidoth and S. Shamai (Shitz), "The Poisson Multiple-Access Channel", presented at the 1996 IEEE Information Theory Workshop, Haifa, Israel, June 1996.
76. S. Shamai (Shitz), S. Verdú and R. Zamir, "Systematic Lossy Source/Channel Coding", presented at the 1996 International Symposium on Information Theory and its Applications (ISITA '96), Victoria, British Columbia, Canada, September 1996.
77. S. Shamai (Shitz), S. Verdú and R. Zamir, "Digital Broadcasting Back-Compatible with Analog Broadcasting: Information Theoretic Limits", Proceedings of the Fifth European Space Agency International Workshop on Digital Signal Processing Techniques Applied to Space Communications, Barcelona, September 25-27, 1996.
78. Y. Perets and S. Shamai (Shitz), "Coded CPFSK with Limiter Discriminator Detection", presented at the Nineteenth Convention of Electrical and Electronic Engineers in Israel, Jerusalem, Nov. 1996.
79. B. Bublil and S. Shamai (Shitz), "Suboptimal Noncoherent Detection of CPFSK", presented at the Nineteenth Convention of Electrical and Electronic Engineers in Israel, Jerusalem, Nov. 1996.
80. S. Shamai (Shitz), "A Broadcast Transmission Strategy for the Gaussian Slowly Fading Channel", presented at the 1997 IEEE International Symposium on Information Theory, Ulm, Germany, June/July 1997.
81. A. Lapidoth and S. Shamai (Shitz), "A Lower Bound on the Mismatched Viterbi Decoding Bit-Error Rate", presented at the 1997 IEEE International Symposium on Information Theory, Ulm, Germany, June/July 1997.
82. I.C. Abou Faycal, M.D. Trott and S. Shamai (Shitz), "The Capacity of Discrete-Time Rayleigh Fading Channels", presented at the 1997 IEEE International Symposium on Information Theory, Ulm, Germany, June/July 1997.
83. S. Shamai (Shitz), S. Verdú and R. Zamir, "Information Theoretic Aspects of Systematic Coding", presented at the International Symposium on Turbo Codes & Related Topics, September 1997. Presented also at the ENST - Technion Workshop on Turbo Coding, Technion, Haifa, May 21, 1997.
84. S. Shamai (Shitz) and O. Somekh, "Shannon-Theoretic Considerations for a Gaussian Cellular TDMA Multi-Access Channel with Fading", presented at the 8th IEEE International Symposium on Personal Indoor and Mobile Radio Communications (PIMRC '97), Helsinki, Finland, September 1997.
85. S. Verdú and S. Shamai (Shitz), "Multiuser Detection with Random Spreading and Error-Correction Codes: Fundamental Limits", presented at the Thirtyfifth Annual Allerton Conference, Communication, Control and Computing, October 1997.

86. I. Sasson and S. Shamai (Shitz), "On Union Bounds for Random Turbo Codes", presented at the Third Mediterranean Workshop on Coding and Information Integrity, Ein Boqeq, Israel, October 1997.
87. R. Zamir and S. Shamai (Shitz), "Linear/Lattice Codes for Rate-Distortion with Uncoded Side-Information at the Decoder", presented at the Third Mediterranean Workshop on Coding and Information Integrity, Ein Boqeq, Israel, October 1997.
88. M. Peleg and S. Shamai (Shitz), "On Coded and Interleaved Noncoherent Multiple Symbol Detected MPSK", presented in the 9th Mediterranean Electro-technical Conference - MELECON'98, Tel-Aviv, Israel, May 1998.
89. I. Sasson and S. Shamai (Shitz), "Union and Distance Spectrum Based Bounds for Random Turbo Codes", presented in the 9th Mediterranean Electro-technical Conference - MELECON'98, Tel-Aviv, Israel, May 1998.
90. S. Verdú and S. Shamai (Shitz), "The Capacity Penalty of Random Spreading in CDMA", presented at the 9th Mediterranean Electro-technical Conference - MELECON'98, Tel-Aviv, Israel, May 1998.
91. M. Peleg, S. Shamai (Shitz) and S. Galan, "On Iterative Decoding for Coded Noncoherent MPSK Communications over Block-Noncoherent AWGN Channel", presented at the 1998 International Conference on Telecommunications (ITC'98), Halkidiki, Greece, June 1998.
92. S. Shamai (Shitz), "Information Theoretic Aspects of Fading Channel", (invited paper), presented at the Netherlands Academy Colloquium "Information Theory: The First 50 Years and Beyond", Amsterdam, the Netherlands, June 1998.
93. S. Verdú and S. Shamai (Shitz), "Fundamental Limits of Coded CDMA with Random Spreading", presented at the IEEE Information Theory Workshop (ITW'98), Killarney, Co. Kerry, Ireland, June 1998.
94. R. Zamir and S. Shamai (Shitz), "Nested Linear/Lattice Codes for Wyner-Ziv Encoding", presented at the IEEE Information Theory Workshop (ITW'98), Killarney, Co. Kerry, Ireland, June 1998.
95. O. Somekh and S. Shamai (Shitz), "A Shannon-Theoretic View of Wyner's Multiple-Access Cellular Model in the Presence of Fading", presented at the 1998 IEEE International Symposium on Information Theory (ISIT'98), Boston, USA, August 1998.
96. I. Sason and S. Shamai (Shitz), "Distance Spectrum Based Improved Upper Bounds for Parallel and Serial Concatenated Turbo Codes", presented at the 1998 IEEE International Symposium on Information Theory (ISIT'98), Boston, USA, August 1998.
97. G. Caire and S. Shamai (Shitz), "On the Capacity of Some Channels with Channel State Information", presented at the 1998 IEEE International Symposium on Information Theory (ISIT'98), Boston, USA, August 1998.
98. A. Oka, S. Bross and S. Shamai (Shitz), "Two Approaches to Multilevel QAM Coding", presented at the 1998 IEEE International Symposium on Information Theory (ISIT'98), Boston, USA, August 1998, and at the URSI Annual Meeting, Haifa, Israel, December 1998.
99. S. Verdú and S. Shamai (Shitz), "Capacity of CDWA with Random Spreading and Multiuser Detection", (invited paper), presented at the IEEE International Symposium on Spread Spectrum Techniques and Applications (ISSSTA'98), Sun City, South Africa, September 1998.

100. N. Chayat and S. Shamai (Shitz), "Iterative Soft Onion Peeling for Multi-Access and Broadcast Channels", presented at the 9th International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'98), Boston, USA, Sept. 1998, and at the URSI Annual Meeting, Haifa, Israel, December 1998.
101. I. Bettesh and S. Shamai (Shitz), "A Low Delay Algorithm for the Multiple Access Channel with Rayleigh Fading", presented at the 9th International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'98), Boston, USA, Sept. 1998.
102. I. Sason and S. Shamai (Shitz), "Bounds on the Error Probability of ML Decoding for Block and Turbo-Block Codes", presented at the URSI Annual Meeting, Technion, Haifa, Israel, 15 December, 1998.
103. I. Abramovici and S. Shamai (Shitz), "Turbo Encoded BICM: A Bandwidth Efficient Modulation Scheme", presented at the URSI Annual Meeting, Technion, Haifa, Israel, 15 December, 1998.
104. X. Zhang, D. Brady and S. Shamai (Shitz), "Coherent PSK Demodulation in Constant Envelope Interference", Proc. of the 33rd Annual Conference on Information Sciences and Systems, Dept. of ECE, The John Hopkins University, Baltimore, Maryland, USA, 17-19, March 1999.
105. S. Shamai (Shitz), "On Information Theoretic Aspects of Multi-User Communications", presented at the International Technion Communication Day, in honor of Israel Bar-David, March 25, 1999.
106. N. Chayat and S. Shamai (Shitz), "Iterative Multi-User Detection in Multiple-Access and Broadcast Channels", (invited paper), presented at the Information Theory Workshop (ITW'99), Kruger National Park, South Africa, June 1999.
107. A. Lapidoth and S. Shamai (Shitz), "Fading Channels: How Perfect Need 'Perfect Side Information' Be", presented at the Information Theory Workshop (ITW'99), Kruger National Park, South Africa, June 1999.
108. M. Peleg and S. Shamai (Shitz), "Efficient Communication Over the Discrete-Time Memoryless Rayleigh Fading Channel with Turbo Coding/Decoding", presented at the 8-th Communication Theory Mini Conference within the International Conference on Communication, Vancouver, British Columbia, Canada, 6-10 June, 1999.
109. S. Shamai (Shitz) and E. Telatar, "Some Information Theoretic Aspects of Decentralized Power Control in Multiple Access Fading Channels", presented at the 1999 Information Theory and Networking Workshop, Metsovo, Greece, June 27-July 1, 1999.
110. S. Shamai (Shitz) and S. Verdú, "Capacity of CDMA Fading Channels", presented at the 1999 Information Theory and Networking Workshop, Metsovo, Greece, June 27-July 1, 1999.
111. S. Shamai (Shitz), S. Verdú and B. Zeidel, "Spectral Efficiency of Randomly Spread DS-SS in a Multi-Cell Model", (invited talk) presented at the Thirtieth Annual Allerton Conf. Communication, Control, and Computing, Allerton House, Monticello, Illinois, September 22-24, 1999.
112. I. Sason and S. Shamai (Shitz), "Tangential Sphere Bounds on the Ensemble Performance of ML Decoded Low Density Parity Check Codes", presented at the 3rd ITG Conference Source and Channel Coding, Technische Universität München, January 17-19, 2000.

113. S. Shamai and I. Sason, "Variations on Gallager Bounds, and Some Applications," (invited paper) presented at the Third ETH-Technion Workshop on Information Theory, ETC, Zürich, January 19–21, 2000.
114. N. Binshtock and S. Shamai (Shitz), "Integer Metric for Binary Input Symmetric Output Memoryless Channels," presented at the URSI Annual Meeting, Tel-Aviv University, Tel-Aviv, Israel, February 15, 2000.
115. I. Sason and S. Shamai (Shitz), "On Improved Bounds on Coded Communications over Interleaved Fading Channels with Applications to Turbo Codes", presented at the URSI Annual Meeting, Tel-Aviv University, Tel-Aviv, Israel, February 15, 2000.
116. S. Bross, M.V. Burnashev and S. Shamai (Shitz), "Error Exponents for the Two Users Poisson Optical Channel", presented at the URSI Annual Meeting, Tel-Aviv University, Tel-Aviv, Israel, February 15, 2000.
117. S. Shamai (Shitz), B. Zaidel and S. Verdú, "On Information Theoretic Aspects of Intra and Inter Cell Interference Mitigation in Coded and Randomly Spread CDMA", (invited talk) presented at the Meeting on Interference Rejection and Signal Separation (IRSS'2000), New Jersey Institute of Technology, Newark, NJ, 14 March, 2000.
118. S. Shamai (Shitz) and I. Bettesh, "Outages, Expected Rates and Delays", presented at the 34-th Annual Conference on Information, Sciences and Systems (CISS'2000), Princeton University, Princeton, NJ, March 15–17, 2000.
119. B.M. Zaidel, S. Shamai (Shitz) and S. Verdú, "Information Theoretic Aspects of Some Multiuser Detection Strategies in a Multi-Cell Random Spread DS-CDMA System", presented at the 21st Convention of Electrical and Electronic Engineers in Israel, Tel-Aviv, Israel, 11–12 April, 2000.
120. I. Sason and S. Shamai Shitz, "On Gallager Bounding Technique with Applications to Parallel and Serial Concatenated Turbo Codes," presented at the 21st Convention of Electrical and Electronic Engineers in Israel, Tel-Aviv, Israel, 11–12 April, 2000.
121. I. Bettesh and S. Shamai (Shitz), "Queuing Analysis of the Single User Fading Channel", presented at the 21st Convention of Electrical and Electronic Engineers in Israel, Tel-Aviv, Israel, 11–12 April, 2000.
122. U. Erez, R. Zamir and S. Shamai (Shitz), "Additive Noise Channels with Side Information at the Transmitter," presented at the 21st Convention of Electrical and Electronic Engineers in Israel, Tel-Aviv, Israel, 11–12, April, 2000.
123. S. Verdú and S. Shamai (Shitz), "Spectral Efficiency of CDMA", presented at the IEEE Communication Theory Workshop, Haines City, Florida, USA, May 7–10, 2000.
124. I. Sason and S. Shamai (Shitz), "Improved Upper Bounds on the ML Performance of Turbo Codes for Interleaved Rician Fading Channels with Comparison to Iterative Decoding," presented at the International Conference on Communications (ICC'2000), New Orleans, Louisiana, June 18–22, 2000.
125. S. Shamai (Shitz), "A Broadcast Approach for the Multiple-Access Slow Fading Channel", presented at the 2000 IEEE International Symposium on Information Theory (ISIT'2000), Sorrento, Italy, June 25–30, 2000.
126. S. Shamai (Shitz) and T.L. Marzetta, "Multiuser Capacity in Block Fading with no Channel State Information", presented at the 2000 IEEE International Symposium on Information Theory (ISIT'2000), Sorrento, Italy, June 25–30, 2000.

127. I. Bettesh and S. Shamai (Shitz), "Outage Analysis for Multiple Access Channel with Rayleigh Fading," presented at the 2000 IEEE International Symposium on Information Theory (ISIT'2000), Sorrento, Italy, June 25–30, Italy.
128. S. Bross, M. Burnashev and S. Shamai (Shitz), "Error Exponents for the Two-User Poisson Channel," presented at the 2000 IEEE International Symposium on Information Theory (ISIT'2000), Sorrento, Italy, June 25–30, Italy.
129. S. Shamai (Shitz), "Information Theoretic Aspects of Power Control in Multiple Access Fading Channels," (invited talk), presented at the Workshop on Information Theory and Wireless Communications in the New Century, University of Napoli, Naples, Italy, July 1st, 2000.
130. S. Shamai (Shitz) and I. Sason, "On Gallager's Bounding Techniques: Observations and Applications," (invited talk) presented at the 2000 Cornell Summer Workshop on Information Theory, Cornell University, Ithaca, NY, USA, August 18–19, 2000.
131. U. Erez, S. Shamai (Shitz) and R. Zamir, "Capacity and Lattice Strategy for Cancelling Known Interference," (invited talk), presented at the 2000 Cornell Summer Workshop on Information Theory, Cornell University, Ithaca, NY, USA, August 18–19, 2000.
132. S. Shamai (Shitz) and Igal Sason, "Variations on Gallager Bounds: Performance Bounds on Turbo Codes in Gaussian and Fading Channels," (invited paper), presented at the 2nd International Symposium on Turbo Codes & Related Topics, Brest, France, 4–7, September 2000.
133. I. Sason and S. Shamai, "On Improved Bounds on Coded Communications over Interleaved Fading Channels with Applications to Turbo Codes," presented at the 2nd International Symposium on Turbo Codes & Related Topics, Brest, France, 4–7, September 2000.
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186. S. Shamai and M. Katz, “On Pragmatic Cooperative Transmission on the Down-link,” (*invited paper*), presented at the Communications Theory Workshop (CTW 2004), Capri, Italy, May 5–8, 2004.
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191. M. Katz and S. Shamai (Shitz), “Transmitting to Co-located Users in Wireless Ad Hoc and Sensory Networks,” presented at the 2004 IEEE International Symposium on Information Theory (ISIT 2004), Chicago, Illinois, USA, June 27–July 2, 2004.
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215. O. Shental, N. Shental and S. Shamai (Shitz), “On the Achievable Information Rates of Finite-State Input Two-Dimensional Channels with Memory,” presented at the IEEE International Symposium on Information Theory (ISIT 2005), September 4–9, 2005, Adelaide, Australia.
216. A. Sanderovich, S. Shamai (Shitz), Y. Steinberg and G. Kramer, “Communication via Decentralized Processing,” presented at the IEEE International Symposium on Information Theory (ISIT 2005), September 4–9, 2005, Adelaide, Australia.
217. M. Katz and S. Shamai (Shitz), “Relaying Protocols for Two Co-located Users,” presented at the IEEE International Symposium on Information Theory (ISIT 2005), September 4–9, 2005, Adelaide, Australia.
218. A. Lapidoth and S. Shamai, “Collapse of Degrees of freedom in MIMO Broadcast with Finite Precision CSI,” (*invited paper*) presented at the 43rd Allerton Conference on Communications Control and Computing, Monticello, Illinois, USA, September 28–30, 2005.
219. D. Wajcer, S. Shamai (Shitz) and A. Wiesel, “On Superposition and Beamforming for Multiantenna Gaussian Broadcast Channel,” presented at The UCSD Workshop on Information Theory and Applications—Inaugural Workshop, February 6–10, 2006, UCSD, San Diego, USA.
220. A. Steiner and S. Shamai (Shitz), “Single-User Broadcasting over a Relay Channel,” presented at the 2006 International Zurich Seminar on Communications (IZS2006), February 22–24, ETH, Zurich, Switzerland.
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224. M. Katz and S. Shamai (Shitz), "Oblivious Cooperation in Colocated Wireless Networks," presented at IEEE Int. Symposium Inform. Theory (ISIT2006), July 9–14, 2006, Seattle, Washington, USA.
225. G. Durisi, H. Bölcskei and S. Shamai (Shitz), "Capacity of Underspread WSSUS Fading Channels in the Wideband Regime," presented at IEEE Int. Symposium Inform. Theory (ISIT2006), July 9–14, 2006, Seattle, Washington, USA.
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229. H. Weingarten, Y. Steinberg and S. Shamai, "On the Capacity Region of the Multi-Antenna Broadcast Channel with Common Messages," presented at IEEE Int. Symposium Inform. Theory (ISIT2006), July 9–14, 2006, Seattle, Washington, USA.
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231. A. Sanderovich, S. Shamai, Y. Steinberg and M. Peleg, "Decentralized Receiver in A MIMO System," presented at IEEE Int. Symposium Inform. Theory (ISIT2006), July 9–14, 2006, Seattle, Washington, USA.
232. A. Wiesel, Y.C. Eldar and S. Shamai (Shitz), "Linear Transmitter Design for the MISO Compound Channel with Interference," presented at the 14th European Signal Processing Conference (EUSIPCO 2006), September 4–8, 2006, Florence, Italy.
233. A. Wiesel, Y. C. Eldar and S. Shamai (Shitz), "Robust Power Allocation for Maximizing the Compound Capacity," NEWCOM-ACoRN Workshop, September 20–22, 2006, Vienna, Austria.
234. A. Steiner and S. Shamai (Shitz), "Broadcasting with Partial Transmit Channel State Information," NEWCOM-ACoRN Workshop, September 20–22, 2006, Vienna, Austria.
235. M. Peleg, A. Sanderovich and S. Shamai (Shitz), "On Extrinsic Information of Good Codes Operating Over Discrete Input Memoryless Channels," presented at The 24th Convention of Electrical and Electronic Engineers (IEEE) in Israel, November 15–17, 2006, Eilat, Israel.

236. M. Katz and S. Shamai (Shitz), “Cooperative Protocols for a Source and An Occasional Nearby Relay,” presented at The 24th Convention of Electrical and Electronic Engineers (IEEE) in Israel, November 15–17, 2006, Eilat, Israel.
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239. Y. Liang, H. Poor and S. Shamai (Shitz), “Secrecy Capacity Region of Parallel Broadcast Channel,” presented at UCSD Workshop on Information Theory and Applications, January 29–February 4, 2007, UCSD, San Diego, USA.
240. I. Maric, A. Godsmith, G. Kramer and S. Shamai (Shitz), “On the Capacity Results for Cognitive Radio,” presented at UCSD Workshop on Information Theory and Applications, January 29–February 4, 2007, UCSD, San Diego, USA.
241. O. Shental, N. Shental, S. Shamai (Shitz), I. Kanter and A.J. Weiss, “Finite-State Input Two-Dimensional Gaussian Channels with Memory: Estimation and Information via Graphical Models and Statistical Mechanics,” presented at UCSD Workshop on Information Theory and Applications, January 29–February 4, 2007, UCSD, San Diego, USA.
242. D. Tuninetti, G. Caire and S. Shamai, “Scalar Fading Gaussian Broadcast Channels with Perfect receiver CSI: is Gaussian Input Optimal?” presented at UCSD Workshop on Information Theory and Applications, January 29–February 4, 2007, UCSD, San Diego, USA.
243. A. Sanderovich, A. Steiner and S. Shamai (Shitz), “Cooperation Strategies for Two Colocated Receivers, with No CSI at the Transmitter,” presented at the 41st Annual Conference on Information Sciences and Systems, March 14–16, 2007, John Hopkins University, Baltimore, Maryland, USA.
244. A. Wiesel, Y.C. Eldar and S. Shamai (Shitz), “Zero Forcing Precoding and Generalized Inverses,” presented at the 41st Annual Conference on Information Sciences and Systems, March 14–16, 2007, John Hopkins University, Baltimore, Maryland, USA.
245. M. Katz and S. Shamai (Shitz), “Oblivious Cooperation of Wireless Colocated Transmitters,” (invited talk) presented at the International Workshop on Wireless Networks: Communication, Cooperation and Competition, 5th Intl. Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks, April 16–20, 2007, Limassol, Cyprus.
246. H. Weingarten, T. Liu, S. Shamai (Shitz), Y. Steinberg and P. Viswanath, “The Capacity Region of the Degraded MIMO Compound Broadcast Channel,” presented at the 2007 IEEE International Symposium on Information Theory (ISIT2007), June 24–29, 2007, Nice, France.
247. A. Sanderovich, S. Shamai (Shitz) and Y. Steinberg, “On Upper bounds for Decentralized MIMO Receiver,” presented at the 2007 IEEE International Symposium on Information Theory (ISIT2007), June 24–29, 2007, Nice, France.
248. A. Lapidoth, S. Shamai (Shitz) and M. A. Wigger, “A Linear Interference Network with Local Side-Information,” presented at the 2007 IEEE International Symposium on Information Theory (ISIT2007), June 24–29, 2007, Nice, France.

249. I. Maric, A. Goldsmith, G. Kramer and S. Shamai (Shitz), "On the Capacity of Interference Channels with a Cognitive Transmitter," presented at the 2007 IEEE International Symposium on Information Theory (ISIT2007), June 24–29, 2007, Nice, France.
250. Y. Liang, V. Poor and S. Shamai (Shitz), "Secrecy Capacity Region of Fading Broadcast Channels," presented at the 2007 IEEE International Symposium on Information Theory (ISIT2007), 24–29 June 2007, Nice, France.
251. A. Sanderovich, O. Somekh and S. Shamai (Shitz), "Uplink Macro Diversity with Limited Backhaul Capacity," presented at the 2007 IEEE International Symposium on Information Theory (ISIT2007), June 24–29, 2007, Nice, France. This paper received the ISIT Best Student Paper Award.
252. A. Somekh-Baruch, S. Shamai (Shitz) and S. Verdú, "Cooperative Multiple Access Encoding with States Available at One Transmitter," presented at the 2007 IEEE International Symposium on Information Theory (ISIT2007), June 24–29, 2007, Nice, France.
253. O. Somekh, O. Simeone, V. H. Poor and S. Shamai (Shitz), "Cellular Systems with Full-Duplex Amplify-and-Forward Relaying Cooperative Base-Station," presented at the 2007 IEEE International Symposium on Information Theory (ISIT2007), June 24–29, 2007, Nice, France.
254. G. Durisi, H. Bölcskei and S. Shamai (Shitz), "Capacity of Underspread Non-coherent WSSUS Fading Channels under Peak Signal Constraints," presented at the 2007 IEEE International Symposium on Information Theory (ISIT2007), June 24–29, 2007, Nice, France.
255. A. Tulino S. Verdú, G. Caire and S. Shamai (Shitz), "The Gaussian Erasure Channel," presented at the 2007 IEEE International Symposium on Information Theory (ISIT2007), June 24–29, 2007, Nice, France.
256. T. Garibay, U. Erez and S. Shamai (Shitz), "Dirty Paper Coding with a Finite Input Alphabet," presented at the 2007 IEEE International Symposium on Information Theory (ISIT2007), June 24–29, 2007, Nice, France.
257. C. Tian, A. Steiner, S. Shamai (Shitz) and S. Diggavi, "Expected Distortion for Gaussian Source with a Broadcast Transmission Strategy over a Fading Channel," presented at the 2007 IEEE Workshop on Information Theory for Wireless Networks, July 1–6, 2007, Bergen, Norway.
258. G. Kramer and S. Shamai (Shitz), "Capacity for a Class of Broadcast Channels with Receiver Side Information," (*invited paper*) presented at the IEEE Information Theory Workshop (ITW 2007), September 2–6, 2007, Lake Tahoe, California, USA.
259. C. T.K. Ng, C. Tian, A. J. Goldsmith and S. Shamai (Shitz), "Minimum Expected Distortion in Gaussian Source Coding with Uncertain Side Information," presented at the IEEE Information Theory Workshop (ITW 2007), September 2–6, Lake Tahoe, California, USA.
260. A. Lapidoth, S. Shamai (Shitz) and M. Wigger, "On Cognitive Interference Networks," presented at the IEEE Information Theory Workshop (ITW 2007), September 2–6, Lake Tahoe, California, USA.
261. Y. Liang, A. Somekh-Baruch and S. Shamai (Shitz), "Cognitive Interference Channels with Confidential Messages," presented at the 45th Annual Allerton Conference on Communication, Control and Computing, Allerton House, Monticello, IL, USA, 26–28 September, 2007.

262. Y. Liang, G. Kramer, Vo. Poor and S. Shamaï (Shitz), “Compound Wiretap Channels,” presented at the 45th Allerton Conference on Communication, Control and Computing, Allerton House, Monticello, IL, USA, 26–28 September, 2007.
263. O. Simeone, O. Somekh, S. Shamaï (Shitz) and Y. Bar-Ness and V. Poor, “Capacity of Linear Two-Hop Networks with Rate Splitting, Decode-and-Forward Relaying and Cooperation,” presented at the 45th Annual Allerton Conference on Communication, Control and Computing, Allerton House, Monticello, IL, USA, 26–28 September, 2007.
264. Y. Hong and S. Shamaï (Shitz), “Interference Mutual Information Combining and Coder Design for IDMA, presented at the 45th Annual Allerton Conference on Communication, Control and Computing, Allerton House, Monticello, IL, USA, 26–28 September, 2007.
265. S. Shamaï (Shitz), O. Somekh, O. Simeone, A. Sanderovich and B. M. Zaidel, “Cooperative Multi-Cell Networks: Impact of Limited-Capacity Backhaul and Inter-Users Links,” (*invited paper*), presented at the Joint Workshop on Coding and Communications (JWCC2007), Castle of Durnstein, Vienna, Austria, October 14–16, 2007.
266. Y. Liang, H. V. Poor and S. Shamaï (Shitz), “Information-Theoretic Security in Wireless Networks,” (*invited paper*), presented at the Joint Workshop on Coding and Communications (JWCC2007), Castle of Durnstein, Vienna, Austria, October 14–16, 2007.
267. G. Caire, N. Jindal and S. Shamaï (Shitz), “On the Required Accuracy of Transmitter Channel State Information in Multiple Antenna Broadcast Channels,” presented at the Asilomar Conference of Signals, Systems and Computers, Pacific Grove, CA, USA, 4–7 November, 2007.
268. I. Maric, A. Goldsmith, G. Kramer and S. Shamaï (Shitz), “An Achievable Rate Region for the Interference Channel with a Cognitive Transmitter,” presented at the Asilomar Conference of Signals, Systems and Computers, Pacific Grove, CA, USA, 4–7 November, 2007.
269. S. A. Jafar and S. Shamaï (Shitz), “Degrees of Freedom of the MIMO X-Channel,” presented at the IEEE Global Telecommunications Conference (GLOBECOM’2007), Washington, DC, USA, 26–30 November 2007.
270. S. Shamaï (Shitz), O. Simeone, O. Somekh and S. Shamaï (Shitz), “Limited Backhaul Multi-Cell Processing,” (*invited paper*), presented at the 2008 Information Theory and Applications (ITA 2008) Workshop, January 27–February 1, University of California, San Diego, USA.
271. I. Maric, A. Goldsmith, G. Kramer and S. Shamaï (Shitz), “Recent Result on Cognitive Radio,” presented at the 2008 Information Theory and Applications (ITA 2008) Workshop, January 27 - February 1, University of California, San Diego, USA.
272. O. Somekh, O. Simeone, H. V. Poor and S. Shamaï (Shitz), “Non-Regenerative Relaying in Mesh Networks,” presented at the 2008 Information Theory and Applications (ITA 2008) Workshop, January 27 - February 1, University of California, San Diego, USA.
273. O. Simeone, O. Somekh, G. Kramer, S. Shamaï (Shitz) and H. V. Poor, “Cellular Systems with Multicell Processing and Conferencing Links between Mobile Stations,” presented at the 2008 Information Theory and Applications (ITA 2008) Workshop, January 27 - February 1, University of California, San Diego, USA.

274. O. Somekh, O. Simeone, H. V. Poor and S. Shamai (Shitz), "On the Spectrum of Large Random Hermitian Finite-Band Matrices and Applications to Wireless Communication," presented at the OPEN PROBLEM SESSION, 2008 Information Theory and Applications (ITA 2008) Workshop, January 27 - February 1, University of California, San Diego, USA.
275. A. Sanderovich, M. Peleg and S. Shamai (Shitz), "Scaling Laws and Techniques in Decentralized Processing of Interfered Gaussian Channels," presented at the International Zurich Seminar on Communications, Zurich, Switzerland, March 12-14, 2008.
276. A. Steiner and S. Shamai (Shitz), "Multi-Layer Broadcast Hybrid-ARQ Strategies," presented at the International Zurich Seminar on Communications, Zurich, Switzerland, March 12-14, 2008
277. 273. Osvaldo Simeone, Oren Somekh, Vincent Poor and Shlomo Shamai (Shitz), "Distributed MIMO in Multi-Cell Wireless Systems via Finite-Capacity Links," presented at The 3rd International Symposium on Communications, Control and Signal Processing (ISCCSP 2008), March 12-14, 2008,
278. O. Somekh, A. Sanderovich, B. M. Zaidel, S. Shamai (Shitz) and H. V. Poor, "On the Impact of Limited-Capacity Backhaul and Inter-Users Links in Cooperative Multicell Networks," presented at the Conference on Information Sciences and Systems (CISS 2008), March 19-21, 2008, Princeton, USA.
279. V. Cadambe, S. A. Jafar and S. Shamai (Shitz), "Interference Alignment on the Deterministic Channel and Application to Fully Connected AWGN Interference Networks," presented at the IEEE Information Theory Workshop (ITW2008), May 5-9, 2008, Porto, Portugal.
280. E. Hof, I. Sason and S. Shamai (Shitz), "Gallager-Type Bounds for Non-Binary Linear Block Codes over Memoryless Symmetric Channels," presented at the IEEE Information Theory Workshop (ITW2008), May 5-9, 2008, Porto, Portugal.
281. Y. Liang, G. Kramer and S. Shamai (Shitz), "Capacity Outer Bounds for Broadcast Channels," presented at the IEEE Information Theory Workshop (ITW2008), May 5-9, 2008, Porto, Portugal.
282. I. Maric, A. Goldsmith, G. Kramer and S. Shamai (Shitz), "Communication Strategies for Cognitive Radio Networks," presented at a Poster Session by I. Maric, at the Microsoft Cognitive Wireless Networking Summit, June 5-6, 2008, Snoqualmie, WA, USA.
283. N. Levy, O. Somekh, S. Shamai (Shitz) and O. Zeitouni, "On Certain Large Random Hermitian Jacobi Matrices with Application to Wireless Communication," presented at the 2008 IEEE International Symposium on Information Theory (ISIT2008), July 6-11, 2008, Toronto, Ontario, Canada.
284. O. Simeone, O. Somekh, H. Vincent Poor, S. Shamai (Shitz), "Distributed MIMO Systems with Oblivious Antennas," presented at the 2008 IEEE International Symposium on Information Theory (ISIT2008), July 6-11, 2008, Toronto, Ontario, Canada.
285. A. Steiner, A. Sanderovich and S. Shamai (Shitz), "The Multi-session Multi-layer Broadcast Approach for Two Cooperating Receivers," presented at the 2008 IEEE International Symposium on Information Theory (ISIT2008), July 6-11, 2008, Toronto, Ontario, Canada.
286. S. Sridharan, S. Vishwanath, S. A. Jafar and S. Shamai (Shitz), "On the Capacity of Cognitive Relay Assisted Gaussian Interference Channels," presented

- at the 2008 IEEE International Symposium on Information Theory (ISIT2008), July 6–11, 2008, Toronto, Ontario, Canada.
287. D. Guo, S. Shamai (Shitz) and S. Verdú, “Estimation of Non-Gaussian Random Variables in Gaussian Noise: Properties of the MMSE,” presented at the 2008 IEEE International Symposium on Information Theory (ISIT2008), July 6–11, 2008, Toronto, Ontario, Canada.
 288. O. Somekh, O. Simeone, H. V. Poor and S. Shamai (Shitz), “Cellular Systems with Full-Duplex Compress-and-Forward Relaying and Cooperative Base Station,” presented at the 2008 IEEE International Symposium on Information Theory (ISIT2008), July 6–11, 2008, Toronto, Ontario, Canada.
 289. A. Tulino, S. Verdú, G. Caire and S. Shamai (Shitz), “Intersymbol Interference with Flat Fading: Channel Capacity,” presented at the 2008 IEEE International Symposium on Information Theory (ISIT2008), July 6–11, 2008, Toronto, Ontario, Canada.
 290. A. Somekh-Baruch, S. Shamai (Shitz) and S. Verdú, “Cognitive Interference Channels with State Information,” presented at the 2008 IEEE International Symposium on Information Theory (ISIT2008), July 6–11, 2008, Toronto, Ontario, Canada.
 291. Yi Hong, S. Shamai (Shitz) and E. Viterbo, “Algebraic-Phase Spreading Sequences for Code Spread Code Division Multiple Access,” presented at the 2008 IEEE International Symposium on Information Theory (ISIT2008), July 6–11, 2008, Toronto, Ontario, Canada.
 292. Chao Tian and Shlomo Shamai (Shitz), “A Unified Coding Scheme for Hybrid Transmission of Gaussian Source Over Gaussian Channel,” presented at the 2008 IEEE International Symposium on Information Theory (ISIT2008), July 6–11, 2008, Toronto, Ontario, Canada.
 293. R. Liu, Tie Liu, H. Vincent Poor, and S. Shamai (Shitz), “A Vector Generalization of an Entropy-Power Inequality of Costa,” presented at the 2008 IEEE International Symposium on Information Theory (ISIT2008), July 6–11, 2008, Toronto, Ontario, Canada.
 294. Ruoheng Liu, Tie Liu, H. Vincent Poor, and Shlomo Shamai (Shitz), “A Vector Generalization of an Entropy-Power Inequality of Costa,” Recent Results Session, presented at the 2008 IEEE International Symposium on Information Theory (ISIT2008), July 6–11, 2008, Toronto, Ontario, Canada.
 295. S. Shamai (Shitz), O. Simeone, O. Somekh, A. Sanderovich, B. Zaidel and V. Poor, “Information-Theoretic Implications of Constrained Cooperation in Simple Cellular Networks,” Invited plenary address presented by S. Shamai at the workshop: Beyond Cellular: Emerging Network Perspectives for Multiuser and Cooperative MIMO (NWMIMO), IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC2008), 15–18, Sep. 2008, Cannes, French Riviera, France.
 296. Y. Liang, G. Kramer, H. V. Poor and S. Shamai (Shitz), “Recent Results on Compound Wire-tap Channels,” presented at the IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC2008), 15–18 Sep. 2008, Cannes, French Riviera, France.
 297. O. Simeone, D. Gunduz, V. Poor, A. Goldsmith and S. Shamai, “Compound Multiple Access Channels with Conferencing Decoders,” presented at the Forty-Sixth Annual Allerton Conference on Communication, Control and Computing, University of Illinois at Urbana Champaign, September 23–26, 2008.

298. O. Simeone, O. Somekh, G. Kramer, H. Vincent Poor and S. Shamai (Shitz), "Uplink Sum-Rate Analysis of a Multicell System With Feedback," presented at the Forty-Sixth Annual Allerton Conference on Communication, Control and Computing, University of Illinois at Urbana Champaign, September 23–26, 2008.
299. A. Bennathan and A. R. Calderbank, "Bounds on MMSE of bad LDPC Codes at Rates Above Capacity," presented at the Forty-Sixth Annual Allerton Conference on Communication, Control and Computing, University of Illinois at Urbana Champaign, September 23–26, 2008.
300. S. Sridharan, S. Vishwanath, S. A. Jafar and S. Shamai, "A New Achievable Region for a Class of K-User Interference Channels," presented at the Forty-Sixth Annual Allerton Conference on Communication, Control, and Computing, University of Illinois at Urbana-Champaign, September 23–26, 2008.
301. O. Somekh, O. Simeone, V. Poor and S. Shamai (Shitz), "The Two-Tap Input-Erasure Gaussian Channel and Its Application to Cellular Communications," presented at the Forty-Sixth Annual Allerton Conference on Communication, Control and Computing, University of Illinois at Urbana Champaign, September 23–26, 2008.
302. O. Simeone, O. Somekh, H. V. Poor and S. Shamai (Shitz), "Enhancing Uplink Throughput Via Local Base Station Cooperation," presented at the 29th Asilomar Conference on Signals, Systems and Computers, at the Asilomar Conference on Signal Systems and Computer, Pacific Grove, CA, USA, October, 26–29, 2008.
303. O. Simeone, O. Somekh, G. Kramer, H. V. Poor and S. Shamai (Shitz), "Three-User Gaussian Multiple Access Channel with Partially Cooperating Encoders," presented at the 29th Asilomar Conference on Signals, Systems and Computers, at the Asilomar Conference on Signal Systems and Computer, Pacific Grove, CA, USA, October, 26–29, 2008.
304. A. Somekh-Baruch, S. Sridharan, S. Vishwanath, S. Verdú and S. Shamai (Shitz), "On the Capacity of Cognitive Radios in Multiple Access Networks," presented at the 29th Asilomar Conference on Signals, Systems and Computers, at the Asilomar Conference on Signal Systems and Computer, Pacific Grove, CA, USA, October, 26–29, 2008.
305. N. Sharma and S. Shamai (Shitz), "Characterization of the Discrete Capacity-Achieving Distribution When Mass Points Increase," presented at the International Symposium on Information Theory and Its Applications (ISITA2008), Auckland, New Zealand, 7–10, December 2008.
306. A. Steiner and S. Shamai (Shitz), "The Broadcast Approach in Communications Systems," presented at the 2008 IEEE 25–th Convention of Electrical and Electronic Engineers in Israel, December 3–5, 2008, Eilat, Israel.
307. N. Levy, O. Zeitouni and S. Shamai (Shitz), "On Information Rates of the Fading Wyner Cellular Model via the Thouless Formula for the Strip," presented at the 2008 IEEE 25–th Convention of Electrical and Electronic Engineers in Israel, December 3–5, 2008, Eilat, Israel.
308. N. Levy and S. Shamai (Shitz), "Clustered Local Decoding for Wyner-type Cellular Models," presented at the UCSD Workshop on Information Theory and Applications (ITA2009), Feb. 8–13, 2009, UCSD, San Diego, USA.
309. C. Huang, S. A. Jafar, S. Shamai, "Multiuser MIMO Degrees of Freedom with No CSIT," presented at the UCSD Workshop on Information Theory and Applications (ITA2009), Feb. 8–13, 2009, UCSD, San Diego, USA.

310. O. Simeone, O. Somekh, E. Erkip, H. V. Poor and S. Shamai (Shitz), “A Broadcast Approach to Robust Communications over Unreliable Multi-Relay Networks,” presented at the UCSD Workshop on Information Theory and Applications (ITA2009), Feb. 8–13, 2009, UCSD, San Diego, USA.
311. G. Kramer, Y. Liang and S. Shamai (Shitz), “Outer Bounds on the Admissible Source Region for Broadcast Channels with Dependent Sources,” presented at the UCSD Workshop on Information Theory and Applications (ITA2009), Feb. 8–13, 2009, UCSD, San Diego, USA.
312. A. Jafarian, S. Sridharan, S. Jafar, S. Shamai and S. Vishwanath, “Lattice Coding for Interference Networks,” presented at the UCSD Workshop on Information Theory and Applications (ITA2009), Feb. 8–13, 2009, UCSD, San Diego, USA.
313. C. Tian, S. Diggavi and S. Shamai, “On the Approximation of Common Source Broadcast Distortion Region,” presented at the UCSD Workshop on Information Theory and Applications (ITA2009), Feb. 8–13, 2009, UCSD, San Diego, USA.
314. M. Wigger, A. Lapidoth, N. Levy and S. Shamai (Shitz), “Receivers-Transmitters Side-Information Duality in Linear Interference Networks,” presented at the UCSD Workshop on Information Theory and Applications (ITA2009), Feb. 8–13, 2009, UCSD, San Diego, USA.
315. S. Shamai and S. Verdú, “Variable-Rate Channel Capacity,” presented at the UCSD Workshop on Information Theory and Applications (ITA2009), Feb. 8–13, 2009, UCSD, San Diego, USA.
316. D. Guo, J. Luo, S. Shamai and D. Baron, “Neighbor Discovery in Ad Hoc Networks as a Compressed Sensing Problem,” presented at the UCSD Workshop on Information Theory and Applications (ITA2009), Feb. 8–13, 2009, UCSD, San Diego, USA.
317. M. Kobayashi, M. Debbah, L. Cardoso and S. Shamai, “Vandermonde Precoding for Cognitive and Security Applications over Frequency-Selective Fading Channels,” NEWCOM++ - ACoRN Joint Workshop, Barcelona, March 30–April 1, 2009.
318. R. Liu, Tie Liu, H. V. Poor and S. Shamai, (Invited Paper) “A Vector Generalization of Costa’s Entropy Power Inequality with Applications,” presented at the PIIRS Seminar on the Interface of Information Theory and Estimation Theory, Princeton, April 10–11, 2009.
319. S. Shamai, R. Bustin, R. Liu and V. Poor, (Invited Paper) “Secrecy Capacity of the MIMO Gaussian Wiretap Channel: An I-MMSE Approach,” presented at the PIIRS Seminar on the Interface of Information Theory and Estimation Theory, Princeton, April 10–11, 2009.
320. D. Gunduz, O. Simeone, A. Goldsmith, H. V. Poor and S. Shamai (Shitz), “Relaying Simultaneous Multicast Messages,” presented at the 2009 Information Theory Workshop on Networking and Information Theory (ITW2009) Volos, Greece, June 10–12, 2009.
321. O. Simeone, O. Somekh, E. Erkip, H. V. Poor and S. Shamai (Shitz), “Multirelay Channel with Non-Ergodic Link Failures,” presented at the 2009 Information Theory Workshop on Networking and Information Theory (ITW2009), Volos, Greece, June 10–12, 2009.
322. Tie Liu and S. Shamai (Shitz), “A Channel-Enhancement Approach to the Secrecy Capacity of the Multiantenna Wiretap Channel,” presented at the 2009 Information Theory Workshop on Networking and Information Theory (ITW2009) Volos, Greece, June 10–12, 2009.

323. S. Cui, A. M. Haimovich, O. Somekh, H. V. Poor and S. Shamai (Shitz), "Throughput Scaling of Wireless Networks with Random Connections," presented at the IEEE International Conference on Communications (IEEE ICC 2009), Dresden, Germany, 14–18 June, 2009.
324. N. Liu, I. Maric, A. J. Goldsmith and S. Shamai (Shitz), "Bounds and Capacity Results for the Cognitive Z-interference Channel," presented at the IEEE Symposium on Information Theory (ISIT 2009), June 28–July 3, 2009, Seoul, Korea.
325. D. Gunduz, O. Simeone, A. Goldsmith, H. V. Poor and S. Shamai (Shitz), "Relaying Simultaneous Multicasts via Structured Codes," presented at the IEEE Symposium on Information Theory (ISIT 2009), June 28–July 3, 2009, Seoul, Korea.
326. P. Piantanida and S. Shamai (Shitz), "Capacity of Compound State-Dependent Channels with States Known at the Transmitter," presented at the IEEE Symposium on Information Theory (ISIT 2009), June 28–July 3, 2009, Seoul, Korea.
327. A. Lapidoth, N. Levy, S. Shamai (Shitz) and M. A. Wigger, "A Cognitive Network with Clustered Decoding," presented at the IEEE Symposium on Information Theory (ISIT 2009), June 28–July 3, 2009, Seoul, Korea.
328. B. Nazer, A. Sanderovich, M. Gastpar and S. Shamai (Shitz), "Structured Superposition for Backhaul Constrained Cellular Uplink," presented at the IEEE Symposium on Information Theory (ISIT 2009), June 28–July 3, 2009, Seoul, Korea.
329. R. Bustin, R. Liu, H. V. Poor and S. Shamai (Shitz), "An MMSE Approach to the Secrecy Capacity of the MIMO Gaussian Wiretap Channel," presented at the IEEE Symposium on Information Theory (ISIT 2009), June 28–July 3, 2009, Seoul, Korea.
330. M. Kobayashi, Y. Liang, S. Shamai (Shitz) and M. Debbah, "On the Compound MIMO Broadcast Channels with Confidential Messages," presented at the IEEE Symposium on Information Theory (ISIT 2009), June 28–July 3, 2009, Seoul, Korea.
331. C. Tian, S. Diggavi and S. Shamai (Shitz), "An Approximate Characterization For the Gaussian Broadcasting Distortion Region," presented at the IEEE Symposium on Information Theory (ISIT 2009), June 28–July 3, 2009, Seoul, Korea.
332. R. Liu, T. Liu, H. V. Poor, and S. Shamai (Shitz), "MIMO Gaussian Broadcast Channels with Confidential Messages," presented at the IEEE Symposium on Information Theory (ISIT 2009), June 28–July 3, 2009, Seoul, Korea.
333. R. Liu, Tie Liu, H. V. Poor, and S. Shamai (Shitz), "A Vector Generalization of an Entropy-Power Inequality of Costa," presented at the IEEE Symposium on Information Theory (ISIT 2009), June 28–July 3, 2009, Seoul, Korea.
334. E. Hof, I. Sason and S. Shamai, "On Optimal Generalized Decoding of Convolution Codes," presented at the 10th International Symposium on Communication Theory and Application, ISCTA'09, St. Martina's College, Ambleside, UK, 13th–17th July, 2009.
335. O. Simeone, D. Gunduz and S. Shamai (Shitz), "Compound Relay Channel with Informed Relay and Destination," Forty-Seventh Annual Allerton Conference on Communication, Control, and Computing September 30–October 2, 2009, Allerton Retreat Center, Monticello, Illinois, USA.

336. D. Guo, D. Baron and S. Shamai (Shitz), "A Single-letter Characterization of Optimal Noisy Compressed Sensing," Forty-Seventh Annual Allerton Conference on Communication, Control, and Computing September 30-October 2, 2009, Allerton Retreat Center, Monticello, Illinois, USA.
337. E. Hof, I. Sason and Shlomo Shamai, "Performance Bounds for Erasure and List Decoding Rules of Linear Block Codes," 2009 Information Theory Workshop, Taormina, Sicily, October 11–16, 2009.
338. Y. Liang, L. Lai, H. V. Poor and S. Shamai (Shitz), "The Broadcast Approach to Fading Wiretap Channels," (*Invited Paper* – Information Theoretic Security Session): 2009 Information Theory Workshop, Taormina, Sicily, October 11–16, 2009.
339. O. Simeone, E. Erkip and S. Shamai (Shitz), "Robust Communications against Femtocells Access Failure," 2009 Information Theory Workshop, Taormina, Sicily, October 11–16, 2009.
340. O. Somekh, O. Simeone, H. V. Poor, N. Merhav, and S. Shamai (Shitz), "Throughput of Cellular Uplink with Dynamic User Activity and Cooperative Base Stations," 2009 Information Theory Workshop, Taormina, Sicily, October 11–16, 2009.
341. R. Liu, Tie Liu, H. V. Poor, and S. Shamai, "Secure Broadcast over MIMO Wireless Channels," presented at the 23rd IEEE Annual Computer Communications Workshop, Oct. 18–21, 2009, Lenox, Massachusetts, USA.
342. A. Tulino, G. Caire, S. Shamai and S. Verdú, "The Capacity of the Frequency/Time-Selective Fading Channel," to be presented at the 2010 Information Theory Workshop, January 6–8, 2010, Cairo, Egypt.
343. N. Sharma and S. Shamai (Shitz), "Transition Points in the Capacity-Achieving Distribution for Free-Space Optical Intensity Channels," to be presented at the 2010 Information Theory Workshop, Cairo, Egypt, January 6–8, 2010.
344. L. Lai, Y. Liang and S. Shamai, "Capacity Bounds for the Poisson Interference Channel," UCSD Workshop on Information Theory and Applications (ITA2010), Jan. 31–Feb. 5, 2010, UCSD, San Diego, USA.
345. O. Simeone, E. Erkip and S. Shamai (Shitz), "Oblivious and Out-of-Band Relaying for Interference Networks," UCSD Workshop on Information Theory and Applications (ITA2010), Jan. 31–Feb. 5, 2010, UCSD, San Diego, USA.
346. R. Liu, Tie Liu, V. H. Poor and S. Shamai (Shitz), "MIMO Gaussian Broadcast Channels with Common Messages," UCSD Workshop on Information Theory and Applications (ITA2010), Jan. 31–Feb. 5, 2010, UCSD, San Diego, USA.
347. S. Shamai, O. Simeone, M. Gastpar, A. Lapidoth, N. Levy, B. Nazer, V. Poor, A. Sanderovich, O. Somekh, M. Wigger and B. Zaidel, "Information Theoretic Reflections on Constrained Base Station Cooperation in the Uplink," UCSD Workshop on Information Theory and Applications (ITA2010), Jan. 31–Feb. 5, 2010, UCSD, San Diego, USA.
348. C. Tian, J. Chen, S. Diggavi and S. Shamai (Shitz), "Separation and Approximate Separation of Source and Channel Coding in Networks," UCSD Workshop on Information Theory and Applications (ITA2010), Jan. 31–Feb. 5, 2010, UCSD, San Diego, USA.
349. N. Merhav, D. Guo and S. Shamai (Shitz), "Signal Estimation in Gaussian Noise: a Statistical Physics Perspective," UCSD Workshop on Information Theory and Applications (ITA2010), Jan. 31–Feb. 5, 2010, UCSD, San Diego, USA.

350. A. Tulino, G. Caire, S. Shamai and S. Verdú, “Capacity of Frequency-Selective and Time-Selective Fading Channel,” UCSD Workshop on Information Theory and Applications (ITA2010), Jan. 31–Feb. 5, 2010, UCSD, San Diego, USA.
351. D. Guo, D. Baron, and S. Shamai, “A Single-letter Characterization of Optimal Linear Signal Estimation,” UCSD Workshop on Information Theory and Applications (ITA2010), Jan. 31–Feb. 5, 2010, UCSD, San Diego, USA.
352. A. Steiner, S. Shamai (Shitz), V. Lupu and U. Katz, “Multi-Layer Coded Direct Sequence CDMA,” submitted to The International Zurich Seminar on Communications (IZS2010), March 3–5, 2010.
353. O. Simeone, E. and S. Shamai, “Oblivious Relaying for Primitive Interference Relay Channels,” submitted to The International Zurich Seminar on Communications (IZS2010), March 3–5, 2010.
354. O. Simeone, E. Erkip and S. Shamai, “Achievable Rates for Multicell Systems with Femtocells and Network MIMO,” submitted to The International Zurich Seminar on Communications (IZS2010), March 3–5, 2010.
355. O. Simeone E. Erkip S. Shamai (Shitz), “On Exploiting the Interference Structure for Reliable Communications,” submitted to The 44th Annual Conference on Information Systems and Sciences (CISS2010), Princeton University, March 17–19, 2010.
356. R. Liu, Tie Liu, H. V. Poor, and S. Shamai (Shitz), “MIMO Gaussian Broadcast Channels with Confidential and Common Messages,” submitted to the IEEE International Symposium on Information Theory, (ISIT2010) June 13–18, 2010, Austin, Texas, USA.
357. R. Bustin, M. Payaro, D. P. Palomar and S. Shamai (Shitz), “On MMSE Properties and I-MMSE Implications in Parallel MIMO Gaussian Channels,” submitted to the IEEE International Symposium on Information Theory, (ISIT2010) June 13–18, 2010, Austin, Texas, USA.
358. M. Kobayashi, Sheng Yang, P. Piantanida and S. Shamai (Shitz), “On the Multi-Antenna Block Fading Wiretap Channels,” submitted to the IEEE International Symposium on Information Theory, (ISIT2010) June 13–18, 2010, Austin, Texas, USA.
359. L. Lai, Y. Liang and S. Shamai(Shitz), “On the Capacity Region of the Poisson Interference Channels,” submitted to the IEEE International Symposium on Information Theory, (ISIT2010) June 13–18, 2010, Austin, Texas, USA.
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