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List of Publications

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JOURNAL PUBLICATIONS

- R. Bustin and S. Shamai (Shitz), "MMSE of "Bad" Codes", IEEE Transactions on Information Theory, Vol. 59, no. 2, pp. 733-743, Feb. 2013.
- R. Bustin, M. Payaró, D. P. Palomar and S. Shamai (Shitz), "On MMSE Crossing Properties and Implications in Parallel Vector Gaussian Channels", IEEE Transactions on Information Theory, Vol. 59, no. 2, pp. 818 - 844, Feb. 2013.
- R. Bustin, R. Liu, H. V. Poor and S. Shamai (Shitz), "An MMSE Approach to the Secrecy Capacity of MIMO Gaussian Wiretap", EURASIP Journal on Wireless Communications and Networking, Special Issue on Wireless Physical Layer Security, 2009.

CONFERENCE PUBLICATIONS

- R. Bustin, H. Vincent Poor and S. Shamai (Shitz), "Worst Additive Noise: An Information-Estimation View", in Proc. of the IEEE 28-th convention of Electrical Engineering in Israel, Eilat, December 2014.
- R. Bustin, H. Vincent Poor and S. Shamai (Shitz), "The Effect of Maximal Rate Codes on the Interfering Message Rate", in Proc. of the IEEE International Symposium on Information Theory (ISIT 2014), Honolulu, Hawaii 2014.
- R. Bustin and S. Shamai (Shitz), "An Information-Estimation Perspective of Communications over Gaussian Interference Channels", in Proc. of the 2012 IEEE 27-th convention of Electrical Engineering in Israel, Eilat, November 2012.
- R. Bustin and S. Shamai (Shitz), "The Capacity of the Multi-MMSE Constrained Gaussian Channels", in Proc. of the IEEE International Symposium on Information Theory (ISIT 2012), Cambridge, MA, USA, 2012.
- R. Bustin and S. Shamai (Shitz), "On Gaussian Channels with MMSE Interference", in Proc. of the International Zurich Seminar, March 2012.
- R. Bustin and S. Shamai (Shitz), "Properties of the MMSE of "Bad" Codes", in Proc. of the 49th Allerton Conference on Communication, Control and Computing, Allerton, Illinois, September, 2011.
- R. Bustin and S. Shamai (Shitz), "The I-MMSE Approach on the Weak Gaussian Z-Interference Channel and the Type I Gaussian Broadcast-Z-Interference Channel", in Proc. of the 2010 IEEE 26th convention of Electrical and Electronic Engineers in Israel, Eilat, 2010.
- R. Bustin, M. Payaró, D. P. Palomar and S. Shamai (Shitz), "On MMSE Properties and I-MMSE Implications in Parallel MIMO Gaussian Channels", in Proc. of the IEEE International Symposium on Information Theory (ISIT 2010), Austin, Texas, USA 2010.
- R. Bustin, R. Liu, H. V. Poor and S. Shamai (Shitz), "An MMSE Approach to the Secrecy Capacity of MIMO Gaussian Wiretap", in Proc. of the IEEE International Symposium on Information Theory (ISIT 2009), Seoul, Korea 2009.

- R. Bustin and H. Messer, “An Equivalent Markov Model for Gillespie’s Stochastic Simulation Algorithm for Biochemical Systems”, in Proc. of the European Signal Processing Conference (EUSIPCO 2006), Florence, Italy, September 2006.
- R. Bustin and H. Messer, “How is DNA Repair Optimal? Engineering Modeling of Genetic Information Flow and its Implications”, poster in the Gordon Research Conference (GRC), Ventura, CA. USA, March 2006.
- R. Bustin and H. Messer, “Optimization Criteria of DNA Repair”, in Proc. of the 13th IEEE Workshop on Statistical Signal Processing (SSP 2005), Bordeaux, France, July 2005.