Publications – Or Ordentlich

Journal Publications and Preprints

O. Ordentlich and U. Erez, “Cyclic Coded Integer-Forcing Equalization”, IEEE Trans. On Information Theory, vol. 58, no. 9, pp. 5804-5815, Sep. 2012.

O. Ordentlich and U. Erez, “On the Robustness of Lattice Interference Alignment”, IEEE Trans. On Information Theory, vol. 59, no. 5, pp. 2735-2759, May 2013.

O. Ordentlich, U. Erez and B. Nazer, “The Approximate Sum Capacity of the Symmetric Gaussian K-User Interference Channel”, IEEE Trans. On Information Theory, vol. 60, no. 6, pp. 3450-3482, June 2014.

O. Ordentlich and U. Erez, “Precoded Integer-Forcing Universally Achieves the MIMO Capacity to Within a Constant Gap”, submitted to IEEE Trans. On Information Theory, Apr. 2013.

O. Ordentlich and U. Erez, “Integer-Forcing Source Coding”, submitted to IEEE Trans. On Information

Theory, Apr. 2013.

O. Ordentlich and O. Shayevitz, “Mutual Information Bounds via Adjacency Events”, in preparation.

Conference Papers

O. Ordentlich and O. Shayevitz, “Bounding Techniques for the Intrinsic Uncertainty of Channels”, Proceedings of the International Symposium on Information Theory (ISIT 2014), Honolulu, HI, USA, July 2014.

O. Ordentlich and U. Erez, “Integer-Forcing Source Coding”, Proceedings of the International Symposium on Information Theory (ISIT 2014), Honolulu, HI, USA, July 2014.

O. Ordentlich, U. Erez and Bobak Nazer “Successive Integer-Forcing and its Sum-Rate Optimality”, Proc. of the 51st Annual Allerton Conference on Communication, Control, and Computing, Monticello, Illinois, Oct. 2013

O. Ordentlich and U. Erez, “Precoded Integer-Forcing Universally Achieves the MIMO Capacity to Within a Constant Gap”, Proceedings of the Information Theory Workshop, pp. 442–446, Seville, Spain, Sep. 2011.

O. Ordentlich and U. Erez, “A Simple Proof for the Existence of “Good” Pairs of Nested Lattices”, Proc. of the 27th Annual Convention of Electrical and Electronic Engineers in Israel, Eilat, pp. 1–12 Israel, Nov. 2012.

A. Khina, O. Ordentlich, U. Erez, Y. Kochman and G. W. Wornell, “Decode-and-Forward for the Gaussian Relay Channel via Standard AWGN Coding and Decoding”, Proceedings of the Information Theory Workshop, Lausanne, Switzerland, Sep. 2012.

O. Ordentlich, U. Erez and B. Nazer, “The Approximate Sum Capacity of the Symmetric Gaussian

K-User Interference Channel”, Proceedings of the International Symposium on Information Theory

(ISIT 2012), pp. 2072–2076, Cambridge, MA, USA, July 2012.

O. Ordentlich, U. Erez and B. Nazer, “The Compute-and-Forward Transform”, Proceedings of the

International Symposium on Information Theory (ISIT 2012), pp. 3008–3012, Cambridge, MA, USA,

July 2012.

O. Ordentlich and U. Erez, “Interference Alignment at Finite SNR for Time-Invariant Channels”, Proceedings of the Information Theory Workshop, pp. 442–446, Paraty, Brazil, Oct. 2011.

O. Ordentlich, J. Zhan, U. Erez, M. Gastpar and B. Nazer, “Practical Code Design for Computeand- Forward”, Proceedings of the International Symposium on Information Theory (ISIT 2011), pp. 1876–1880, St. Petersburg, Russia, Aug. 2011.

O. Ordentlich and U. Erez, “Achieving The Gains Promised by Integer-Forcing Equalization with

Binary Codes”, Proc. of the 26th Annual Convention of Electrical and Electronic Engineers in Israel,

pp. 703–707, Eilat, Israel, Nov. 2010.

J. Zhan, B. Nazer, O. Ordentlich, U. Erez and M. Gastpar, “Integer-Forcing Architectures for MIMO: Distributed Implementation and SIC”, Proceedings of the 44th Asilomar conference on Signals, Systems and Computers, pp. 322–326, Pacific Grove, CA, Nov. 2010.

O. Ordentlich and U. Erez, “Cyclic Coded Integer-Forcing Equalization”, Proc. of the 48th Annual

Allerton Conference on Communication, Control, and Computing, pp. 474–478, Monticello, Illinois,

Sep. 2010