

## Journal Publications

O. Shayevitz, E. Meron, M. Feder and R. Zamir *Delay and redundancy in lossless source coding*, IEEE Transactions on Information Theory, in revision.

O. Shayevitz, *Distributed computing and the graph entropy region*, IEEE Transactions on Information Theory, accepted for publication.

O. Shayevitz, M. Wigger, *On the capacity of the discrete memoryless broadcast channel with feedback*, IEEE Transactions on Information Theory, vol. 59, no. 3, pp. 1329-1345, 2013.

O. Shayevitz and M. Feder, *Optimal feedback communication via posterior matching*, IEEE Transactions on Information Theory, Vol. 57, No. 3, pp. 1186-1222, March 2011.

S. Gannot, L. Ehrenberg, O. Shayevitz, A. Leshem and E. Zehavi, *Bidirectional MIMO Channel Tracking Based on PASTd and Performance Evaluation*, EURASIP Journal on Advances in Signal Processing, vol. 2010.

O. Shayevitz and M. Feder, *Achieving the empirical capacity using feedback: Memoryless additive models*, IEEE Transactions on Information Theory, Vol. 55, No. 3, pp. 1269 - 1295, March 2009.

O. Shayevitz and M. Feder, *Universal decoding for frequency-selective fading channels*, IEEE Transactions on Information Theory, Vol. 51, No. 8, pp. 2770 - 2790, August 2005.

## Conference Publications

O. Ordentlich and O. Shayevitz, *Bounding Techniques for the Intrinsic Uncertainty of Channels*, International Symposium on Information Theory (ISIT 2014), Honolulu, Hawaii, June 2014.

O. Shayevitz, *On Rényi measures and hypothesis testing*, in proc. of the International Symposium on Information Theory (ISIT 2011), St. Petersburg, Russia, August 2011.

O. Shayevitz, *Graph entropy characterization of relay-assisted source coding with side information*, the Data Compression Conference (DCC 2011), in proc. of the Data Compression Conference (DCC 2011), Snowbird, Utah, March 2011.

O. Shayevitz and M. Wigger, *An achievable rate region for the discrete memoryless broadcast channel with feedback*, in proc. of the International Symposium on Information Theory (ISIT 2010), Austin, TX, June 2010.

O. Shayevitz, *A symbolic dynamical system approach to lossy source coding with feedforward*, Data Compression Conference (DCC 2010), Snowbird, Utah, March 2010.

O. Shayevitz, *Posterior matching variants and fixed-point elimination*, in proc. of the 47th Allerton Conference on communication, control, and computing, Monticello, IL, September 2009 [invited].

O. Shayevitz, *On error correction with feedback under list decoding*, in proc. of the International Symposium on Information Theory (ISIT 2009), Seoul, Korea, July 2009.

- O. Shayevitz and M. Feder, *The posterior matching feedback scheme for joint source-channel coding with bandwidth expansion*, in proc. of the Data Compression Conference (DCC 2009), Snowbird, Utah, March 2009.
- O. Shayevitz and M. Feder, *The posterior matching feedback scheme: Capacity achieving and error analysis*, in proc. of the International Symposium on Information Theory (ISIT 2008), Toronto, 2008.
- E. Meron, O. Shayevitz, M. Feder and R. Zamir, *A lower bound on the redundancy of arithmetic-type delay constrained coding*, in proc. of the Data Compression Conference (DCC 2008), Snowbird, Utah, March 2008.
- O. Shayevitz and M. Feder, *Communication with feedback via posterior matching*, in proc. of the International Symposium on Information Theory (ISIT 2007), Nice, France, July 2007.
- O. Shayevitz, E. Meron, M. Feder and R. Zamir, *Bounds on redundancy in constrained delay arithmetic coding*, in proc. of the Data Compression Conference (DCC 2007), Snowbird, Utah, March 2007.
- O. Shayevitz, R. Zamir and M. Feder, *Bounded expected delay in arithmetic coding*, in proc. of the International Symposium on Information Theory (ISIT 2006), Seattle, WA, July 2006.
- S. Gannot, A. Leshem, O. Shayevitz and E. Zehavi, *Tracking a MIMO channel singular value decomposition via projection approximation*, in proc. of the 24th convention of IEEE Israel, Eilat, Israel, November 2006.
- O. Shayevitz and M. Feder, *Communicating using feedback over a binary channel with arbitrary noise sequence*, in proc. of the International Symposium on Information Theory (ISIT 2005), Adelaide, Australia, July 2005.
- O. Shayevitz and M. Feder, *A minimax optimal decoder for OFDM over unknown frequency-selective fading channels*, in proc. of the International Conference on Acoustic, Speech and Signal Processing (ICASSP 2005), Philadelphia, PA, March 2005.

## Patents

- M. Feder and O. Shayevitz, *A Memory Controller and a Method for Writing Information to a k-Level Memory Unit*, PCT/IL2009/001215. July 1, 2010.