Bikash Kumar Dey

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Selected Publications:

1. M. Mishra, B. K. Dey, V. M. Prabhakaran, S. N. Diggavi, "Wiretapped Oblivious Transfer," *IEEE Transactions on Information Theory*, vol. 63, no. 4, pp. 2560–2595, 2017.

2. A. Budkuley, B. K. Dey and V. M. Prabhakaran, "Communication in the Presence of a State-Aware Adversary," *IEEE Transactions on Information Theory*, vol. 63, no. 11, pp. 7396–7419, 2017.

3. J. Ravi, B. K. Dey and E. Viterbo, "Oblivious Transfer Over Wireless Channels," *IEEE Transactions on Communications*, vol. 64, no. 3, pp. 893–905, 2016.

4. S. Sreekumar, B. K. Dey and S. R. B. Pillai, "Distributed Rate Adaptation and Power Control in Fading Multiple Access Channels," *IEEE Transactions on Information Theory*, vol. 61, no. 10, pp. 5504–5524, 2015.

5. B. K. Dey, S. Jaggi and M. Langberg, "Codes against Online Adversaries: Large Alphabets," *IEEE Transactions on Information Theory*, vol. 59, no. 6, pp. 3304–3316, 2013.

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7. V. Shah, B. K. Dey and D. Manjunath, "Network Flows for Function Computation," *IEEE Journal on Selected Areas of Communications - Special Issue on In-Network Computation: Exploring the Fundamental Limits*, vol. 31, no. 4, pp. 714–730, 2013.

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10. B. K. Dey and B. S. Rajan, "Affine Invariant Extended Cyclic Codes over Galois Rings," *IEEE Transactions on Information Theory*, vol. 50, no. 4, pp. 691–698, 2004.

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Selected publications

1. A. Xu and M. Raginsky, "Information-theoretic analysis of generalization capability of learning algorithms," *Advances in Neural Information Processing Systems (NIPS)*, 2017
2. A. Xu and M. Raginsky, "Information-theoretic lower bounds for distributed function computation," *IEEE Transactions on Information Theory*, vol. 63, no. 4, pp. 2314–2337, 2017
3. A. Xu and M. Raginsky, "Information-theoretic lower bounds on Bayes risk in decentralized estimation," *IEEE Transactions on Information Theory*, vol. 63, no. 3, pp. 1580–1600, 2017
4. A. Kontorovich and M. Raginsky, "Concentration of measure without independence: a unified approach via the martingale method," in *Convexity and Concentration* (ed. by E. Carlen, M. Madiman, and E.M. Werner), Springer, 2017
5. M. Raginsky, "Strong data processing inequalities and Φ-Sobolev inequalities for discrete channels," *IEEE Transactions on Information Theory*, vol. 62, no. 6, pp. 3355–3389, 2016
6. M. Raginsky and I. Sason, *Concentration of Measure Inequalities in Information Theory, Communications and Coding*, *Foundations and Trends in Communications and Information Theory*, vol. 10, issues 1 and 2, pp. 1–246, 2013; 2nd ed., 2014
7. M. Raginsky, "Empirical processes, typical sequences and coordinated actions in standard Borel spaces," *IEEE Transactions on Information Theory*, vol. 59, no. 3, pp. 1288–1301, 2013
8. M. Raginsky and A. Rakhlin, "Information-based complexity, feedback and dynamics in convex programming," *IEEE Transactions on Information Theory*, vol. 57, no. 10, pp. 7036–7056, 2011
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