
Bounds On Communication Based On Shannon S Capacity

bounds on communication based on shannon s capacity - bounds on communication based on shannon s capacity bounds on communication based on shannon s capacity *free* bounds on communication based on shannon s capacity comparing bpsk qpsk 4pam 16qam 16psk 64qam and 32psk tagged as awgn capacity psk qam d id you like this article make sure **lower bounds in communication complexity based on ...** - communication complexity. our method is based on factorization norms, a notion from banach space theory. this approach gives us access to several powerful tools from this area such as normed spaces duality and grothendieck's inequality. this extends the arsenal of methods for deriving lower bounds in communication complexity. **information-theoretic lower bounds for distributed ...** - communication-based lower bounds requires careful study of the underlying family of distributions. 3.3 independent protocols in multi-machine settings departing from the interactive setting, in this section we focus on independent protocols, providing somewhat more general results than those for interactive protocols. we first provide lower bounds **lower bounds for quantum communication complexity** - lower bounds for quantum communication ... we then turn to several other techniques for proving lower bounds, which are also based on the fourier transform. we concentrate on functions $f(x,y) = g(x \diamond y)$, for $\diamond \in \{\wedge, \oplus\}$, the bitwise conjunction and parity operators. we prove that for $\diamond = \wedge$, if **tighter cut-based bounds for -pairs communication problems** - tighter cut-based bounds for k-pairs communication problems nicholas j. a. harvey/robert kleinberg abstract we study the extent to which combinatorial cut conditions determine the maximum network coding rate of k-pairs communication problems. we seek a combina- **lower bounds in communication complexity based on ...** - lower bounds in communication complexity based on factorization norms nati linial adi shraibman october 12, 2006 abstract we introduce a new method to derive lower bounds on randomized and quantum communication complexity. our method is based on factorization norms, a notion from banach space theory. as we show, our bounds **communication lower bounds and optimal algorithms for ...** - communication lower bounds and optimal algorithms for programs that reference arrays | part 1 michael christ, james demmely, nicholas knight z, thomas canlon x, and katherine yelick { may 14, 2013 abstract communication, i.e., moving data, between levels of a memory hierarchy or between parallel processors on **a communication lower bounds using directional derivatives** - communication lower bounds using directional derivatives ... novel technique for lower bounds on multiparty communication, based on directional derivatives of protocols over the reals. ... communication lower bounds using directional derivatives a:3 theorem 1.1 (main result). set disjointness and unique set disjointness have ran- **communication lower bounds for statistical estimation ...** - same result for the 1-sparse case under a non-iterative communication model. our lower bounds for the gaussian mean estimation problem imply lower bounds for the sparse linear regression problem (corollary 4.8) via the reduction of [zdjw13]: for a gaussian design matrix, to achieve the statistical minimax error, the communication cost per machine **communication-optimal parallel algorithm for strassen's ...** - asymptotic gap between the communication costs of existing parallel strassen-based algorithms and the communication lower bounds. because of the attainability of the lower bounds in the sequential case, we hypothesized that the gap could be closed by finding a new algorithm rather than by tightening the lower bounds. **bounds on conditional probabilities with applications in ...** - bounds on conditional probabilities with applications in multi-user communication r. ahlsvede* 1, p. gfics 2 and j. k6rner 2 1 dept. of mathematics, the ohio state university, 231 w 18th avenue, columbus, ohio 43210, usa 2 mathematical institute of the hungarian academy of sciences, h-1053 budapest, refiltanoda u. 13-15, hungary **lower bounds for communication in linear algebra - icerm** - lower bounds for communication in linear algebra grey ballard uc berkeley january 9, 2012 research supported by microsoft (award #024263) and intel (award #024894) funding and by matching funding by u.c. discovery (award #dig07-10227) 1 **lower and upper bounds for misclassification probability ...** - fano's bound and the generalized family of lower and upper bounds obtained using renyi's definitions. next, we will introduce some modifications to these new bounds to eliminate unwanted terms, followed by a discussion of some properties of the bounds and numerical case studies each designed to illustrate a **converse bounds for private communication over quantum ...** - converse bounds for private communication over quantum channels mark m. wilde (Isu), marco tomamichel (univ. sydney), and mario berta (caltech) based on arxiv:1602.08898 [wtb16]

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