

LOCALLY DECODABLE CODES AND PRIVATE INFORMATION RETRIEVAL SCHEMES YEKHANIN SERGEY

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Locally Decodable Codes and Private Information Retrieval ...

Locally decodable codes (LDCs) are codes that simultaneously provide efficient random access retrieval and high noise resilience by allowing reliable reconstruction of an arbitrary bit of a message by looking at only a small number of randomly chosen codeword bits.

Locally Decodable Codes and Private Information Retrieval ...

This thesis studies two closely related notions, namely Locally Decodable Codes (LDCs) and Private Information Retrieval Schemes (PIRs). Locally decodable codes are error-correcting codes that allow extremely efficient, "sublinear-time" decoding procedures.

Locally Decodable Codes and Private Information Retrieval ...

Since the concept of locally decodable codes was introduced by Katz and Trevisan in 2000, it is well-known that information-theoretically secure private information retrieval schemes can be built.

A Note on Yekhanin's Locally Decodable Codes

code is a 2-query locally decodable code of length $2n$. However with three queries, the best LDCs known were of length $2 \cdot O(n^{1/2})$ due to Beimel and Ishai [2] while the best known lower bound is $(n/2)^{1/2}$ [5].

Yekhanin Sergey - nebula.wsimg.com

Sergey Yekhanin, Locally Decodable Codes and Private Information Retrieval Schemes, Springer, 2010. (Winning thesis of the 2007 ACM doctoral dissertation award).

New Locally Decodable Codes and Private Information Retrieval ...

A q -query Locally Decodable Code (LDC) encodes an n -bit message x as an N -bit codeword $C(x)$, such that one can probabilistically recover any bit x_i of the message by querying only q bits of the codeword $C(x)$, even after some constant fraction of codeword bits has been corrupted.

Locally Decodable Codes and Private Information Retrieval ...

Information Security and Cryptography Locally Decodable Codes and Private Information Retrieval Schemes. Bearbeiter von Sergey Yekhanin 1st Edition. 2010.

New Locally Decodable Codes and Private Information Retrieval ...

Private information retrieval schemes are closely related to locally decodable codes. In particular, our constructions of LDCs yield three server private information retrieval schemes with small

communication complexity.

Locally decodable code - Wikipedia

Locally decodable codes have applications to data transmission and storage, complexity theory, data structures, derandomization, theory of fault tolerant computation, and private information retrieval schemes.

Locally Decodable Codes - microsoft.com

Locally Decodable Codes Sergey Yekhanin | Microsoft Research Silicon Valley, 1065 La Avenida, Mountain View, CA, 94043, USA, yekhanin@microsoft.com

Abstract Locally decodable codes are a class of error-correcting codes. Error-correcting codes help ensure reliable transmission of information over noisy channels. Such codes allow one to add redundancy, or bit strings, to messages, encoding them.

Sergey Yekhanin - Google Scholar Citations

A geometric approach to information-theoretic private information retrieval D Woodruff, S Yekhanin 20th Annual IEEE Conference on Computational Complexity (CCC'05), 275-284, 2005