Query Answer Authentication

By Kian-Lee Tan

Morgan & Claypool. Paperback. Book Condition: New. Paperback. 104 pages. Dimensions: 9.2in. x 7.5in. x 0.2in.In data publishing, the owner delegates the role of satisfying user queries to a third-party publisher. As the servers of the publisher may be untrusted or susceptible to attacks, we cannot assume that they would always process queries correctly, hence there is a need for users to authenticate their query answers. This book introduces various notions that the research community has studied for defining the correctness of a query answer. In particular, it is important to guarantee the completeness, authenticity and minimality of the answer, as well as its freshness. We present authentication mechanisms for a wide variety of queries in the context of relational and spatial databases, text retrieval, and data streams. We also explain the cryptographic protocols from which the authentication mechanisms derive their security properties. Table of Contents: Introduction Cryptography Foundation Relational Queries Spatial Queries Text Search Queries Data Streams Conclusion This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Paperback.

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