



Privacy in Location-Based Applications: Research Issues and Emerging Trends (Lecture Notes in Computer Science)

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Location-based applications refer to those that use location data in a prominent manner. Location data can be very effective for service provisioning, enabling the birth of a new generation of information services. Although data security and privacy issues have been extensively investigated in several domains, current techniques are not readily applicable to location-based applications. Conciliating the effectiveness of these applications with privacy concerns constitutes a unique challenge, mostly due to the semantic richness of location and time information. Research in this field involves aspects of spatio-temporal reasoning, query processing, system security, statistical inference, and more importantly, anonymization techniques. Several research groups have been working in recent years to identify privacy attacks and defense techniques in this domain.

This state-of-the-art survey provides a solid ground for researchers approaching this topic to understand current achievements through a common categorization of privacy threats and defense techniques. This objective is particularly challenging considering the specific (and often implicit) assumptions that characterize the recent literature on privacy in location-based services.

The book also illustrates the many facets that make the study of this topic a particularly interesting research subject, including topics that go beyond privacy preserving transformations of service requests, and include access control, privacy preserving publishing of moving object data, privacy in the use of specific positioning technology, and privacy in vehicular network applications.

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Editorial Review

Review

From the reviews: “Book provides the state of the art in research on privacy in location-based applications. ... For developers of location-based applications, this book is a valuable resource for understanding individual privacy concerns and the current techniques for addressing them. Researchers will find this book rich with privacy challenges that must be addressed before individuals can fully trust location-based applications.” (A. Hevner, ACM Computing Reviews, March, 2010)

From the Back Cover

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