Location-Based Services Handbook: Applications, Technologies, and Security

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Location-Based Services Handbook: Applications, Technologies, and Security is a comprehensive reference containing all aspects of essential technical information on location-based services (LBS) technology. With broad coverage ranging from basic concepts to research-grade material, it presents a much-needed overview of technologies for positioning and localizing, including range- and proximity-based localization methods, and environment-based location estimation methods. Featuring valuable contributions from field experts around the world, this book addresses existing and future directions of LBS technology, exploring how it can be used to optimize resource allocation and improve cooperation in wireless networks.

It is a self-contained, comprehensive resource that presents:

- A detailed description of the wireless location positioning technology used in LBS
- Coverage of the privacy and protection procedure for cellular networks?and its shortcomings
- An assessment of threats presented when location information is divulged to unauthorized parties
- Important IP Multimedia Subsystem and IMS-based presence service proposals

The demand for navigation services is predicted to rise by a combined annual growth rate of more than 104 percent between 2008 and 2012, and many of these applications require efficient and highly scalable system architecture and system services to support dissemination of location-dependent resources and information to a large and growing number of mobile users.

This book offers tools to aid in determining the optimal distance measurement system for a given situation by assessing factors including complexity, accuracy, and environment. It provides an extensive survey of existing literature and proposes a novel, widely applicable, and highly scalable architecture solution. Organized into three major sections?applications, technologies, and security?this material fully covers various location-based applications and the impact they will have on the future.

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