



# **Location Determination within Wireless Networks: Dynamic indoor/outdoor Localization Systems: Algorithm Design, Performance Analysis and Comparison Study**

*Yiming Ji*

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Many location determination systems have recently been proposed, and most of them are based on one or more of the following four methods: lateration, angulation, fingerprinting, and dead-reckoning. However, existing systems require either dedicated hardware support or extensive human interaction. This book, therefore, provides a comprehensive study on the design, analysis, and evaluation of both indoor and outdoor localization systems. The book introduces a new dynamic indoor localization tool called ARIADNE, it also presents two multidimensional scaling based algorithms for outdoor sensor networks. Thus this research transforms indoor/outdoor localization systems from high cost, labor intensive, imprecise, and static technologies to affordable, automated, accurate, and dynamic systems. Research results are ready to be integrated with a wide range of applications without requiring additional infrastructure, other wireless technologies or manual operations. Comparison study should help professionals better understand current status of the research in wireless location determination, and theoretical analysis would also serve as valuable standards for other research in the community.

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