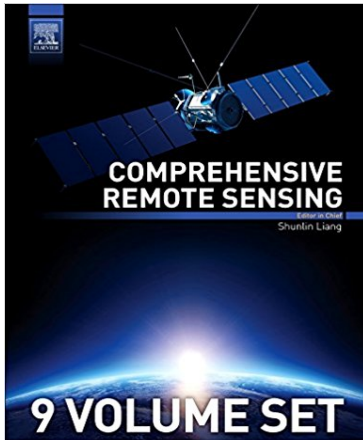


今日急速に発展している分野であるリモートセンシングの原理と応用の全側面を詳細に収録。
各項目は基礎的な諸点からより複雑な諸概念へと展開される重層的な解説となっています。
リモートセンシング関連の研究者、院生レベルの学生に理想的な参考図書です。



リモートセンシング百科事典・全9巻

Comprehensive Remote Sensing

Edited by Shunlin Liang, Department of Geographical Sciences, University of Maryland, USA

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森林管理、漁場予測、地図の作成、気象予報、資源探査、水資源管理、穀物生産動向把握、災害状況把握など社会活動に関連する幅広い分野で利用されているリモートセンシング。環境変動の要因とメカニズム研究の重要性が増している昨今において、リモートセンシングは地球表層（大気、陸域、海洋）といった広範囲な環境の状態とその変化に関する情報を得るための手段として必要不可欠となっている。リモートセンシング開発に必要な基本原理、モデリング、実用的なアルゴリズム、ミッションとセンサ、データ処理と分析手法、大気・陸域・水域への応用を包括的に解説し、最新技術開発のレビューも掲載。地理学、海洋学、気象学、環境科学、物理学、情報技術など、様々な分野でリモートセンシングについて理解を深めたい学生および大学院生、研究者に有用な参考書です。

Comprehensive Remote Sensing covers all aspects of the topic, with each volume edited by well-known scientists and contributed to by frontier researchers. It is a comprehensive resource that will benefit both students and researchers who want to further their understanding in this discipline. The field of remote sensing has quadrupled in size in the past two decades, and increasingly draws in individuals working in a diverse set of disciplines ranging from geographers, oceanographers, and meteorologists, to physicists and computer scientists.

Researchers from a variety of backgrounds are now accessing remote sensing data, creating an urgent need for a one-stop reference work that can comprehensively document the development of remote sensing, from the basic principles, modeling and practical algorithms, to various applications.

About the Editor:

Dr. Liang received the Ph.D. degree in remote sensing and GIS from Boston University, Boston, MA. He was a Postdoctoral Research Associate with Boston University from 1992 to 1993 and a Validation Scientist with the NOAA/NASA Pathfinder AVHRR Land Project from 1993 to 1994. He is currently a Professor. His main research interests focus on estimation of land surface variables from satellite observations, studies on surface energy balance, and assessing the climatic, ecological and hydrological impacts of afforestation in China. He published about 200 peer-reviewed journal papers. He authored the book "Quantitative Remote Sensing of Land Surfaces", co-authored the book "Global Land Surface Satellite (GLASS) Products: Algorithms, Validation and Analysis",

and edited the book "Advances in Land Remote Sensing: System, Modeling, Inversion and Application", and co-edited the books "Advanced Remote Sensing: Terrestrial Information Extraction and Applications" and "Land surface observation, modeling and data assimilation". Dr. Liang was a co-chairman of the International Society for Photogrammetry and Remote Sensing Commission VII/I Working Group on Fundamental Physics and Modeling, and an Associate Editor of the IEEE Transactions on Geoscience and Remote Sensing (2001-2013), and also a guest editor of several remote sensing journals.

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