Land Surface Remote Sensing in Agriculture and Forest

By Nicolas Baghdadi, Mehrez Zribi

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The environmental and economic importance of monitoring forests and agricultural resources has allowed remote sensing to be increasingly in the development of products and services responding to user needs. This volume presents the main applications in remote sensing for agriculture and forestry, including the primary soil properties, the estimation of the vegetation's biophysical variables, methods for mapping land cover, the contribution of remote sensing for crop and water monitoring, and the estimation of the forest cover properties (cover dynamic, height, biomass). This book, part of a set of six volumes, has been produced by scientists who are internationally renowned in their fields. It is addressed to students (engineers, Masters, PhD), engineers and scientists, specialists in remote sensing applied to agriculture and forestry. Through this pedagogical work, the authors contribute to breaking down the barriers that hinder the use of radar imaging techniques.

- Provides clear and concise descriptions of modern remote sensing methods
- Explores the most current remote sensing techniques with physical aspects of the measurement (theory) and their applications
- Provides chapters on physical principles, measurement, and data processing for each technique described
- Describes optical remote sensing technology, including a description of acquisition systems and measurement corrections to be made

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Editorial Review

About the Author
Nicolas Baghdadi is Research Director at IRSTEA in France. He is currently the scientific director of the French Land Data Centre (Theia).

Mehrez Zribi is Research Director at CNRS in France. He is currently active at CESBIO in Toulouse where he is also responsible for the team of observation systems.

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