



# Principles and Methods in Landscape Ecology: Towards a Science of the Landscape (Landscape Series)

By Almo Farina

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Landscape ecology is an integrative and multi-disciplinary science and **Principles and Methods in Landscape Ecology** reconciles the geological, botanical, zoological and human perspectives. In particular, new paradigms and theories such as percolation, metapopulation, hierarchies, source-sink models have been integrated in this last edition with the recent theories on bio-complexity, information and cognitive sciences.

Methods for studying landscape ecology are covered including spatial geometry models and remote sensing in order to create confidence toward techniques and approaches that require a high experience and long-time dedication.

**Principles and Methods in Landscape Ecology** is a textbook useful to present the landscape in a multi-vision perspective for undergraduate and graduate students of biology, ecology, geography, forestry, agronomy, landscape architecture and planning. Sociology, economics, history, archaeology, anthropology, ecological psychology are some sciences that can benefit of the holistic vision offered by this textbook.

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### **Editorial Review**

#### Review

From the reviews of the second edition

"The second edition of Almo Farina's 'Principles and Methods in Landscape Ecology' gives a comprehensive, clearly structured and easily readable up-to-date overview on theories, concepts, principles and specific methods in modern landscape ecology. ... The whole book is well illustrated and contains numerous instructive tables, graphs and figures as well as a couple of colour photos. ... It is highly recommended not only to undergraduate and graduate students but also to everyone interested in landscape perspectives from an ecological point of view." (Norbert Hölzel, *Phytocoenologia*, Vol. 38 (4), December, 2008)

#### From the Back Cover

Principles and methods of landscape ecology are intensively used to model and to manage disturbed landscapes and menaced pristine areas as well. Students and professionals can find a new version of "Principles and Methods in Landscape Ecology" firstly published in 1998 by Chapman & Hall (London).

Landscape ecology is an integrative and multi-disciplinary science and "Principles and Methods in Landscape Ecology" reconciles the geological, botanical, zoological and human perspectives. In particular new paradigms and theories like percolation, metapopulation, hierarchies, source-sink models, have been integrated, in this last edition, with the recent theories on bio-complexity, information and cognitive sciences.

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A relevant goal of this second edition is to increase confidence in the new generations of students and practitioners for considering the ecological systems as the result of the integration between ecosystemic (non spatial) and landscape (spatial) patterns and processes.

Almo Farina is Professor of Ecology at the Urbino University, Faculty of Environmental Sciences (Urbino, Italy).

## About the Author

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