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Handbook of Trait-Based Ecology

From Theory to R Tools

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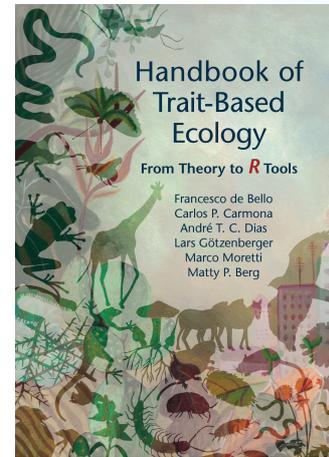
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Functional ecology is the branch of ecology that focuses on various functions that species play in the community or ecosystem in which they occur. This accessible guide offers the main concepts and tools in trait-based ecology, and their tricks, covering different trophic levels and organism types. It is designed for students, researchers and practitioners who wish to get a handy synthesis of existing concepts, tools and trends in trait-based ecology, and wish to apply it to their own field of interest. Where relevant, exercises specifically designed to be run in R are included, along with accompanying on-line resources including solutions for exercises and R functions, and updates reflecting current developments in this fast-changing field. Based on more than a decade of teaching experience, the authors developed and improved the way theoretical aspects and analytical tools of trait-based ecology are introduced and explained to readers.

Preface; 1. General Introduction; 2. Trait Selection and Standardization; 3. The Ecology of Differences: Groups vs. Continuum; 4. Response Traits and the Filtering Metaphor; 5. Community Metrics; 6. Intraspecific Trait Variability; 7. Community Assembly Rules; 8. Traits and Phylogenies; 9. Effects of Traits on Ecosystems Processes and Services; 10. Response and Effect Traits across Trophic Levels; 11. Trait Sampling Strategies; 12. Applied Trait-Based Ecology; References; Index.



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