Numerical Ecology with R (Use R!)

Daniel Borcard, Francois Gillet, Pierre Legendre
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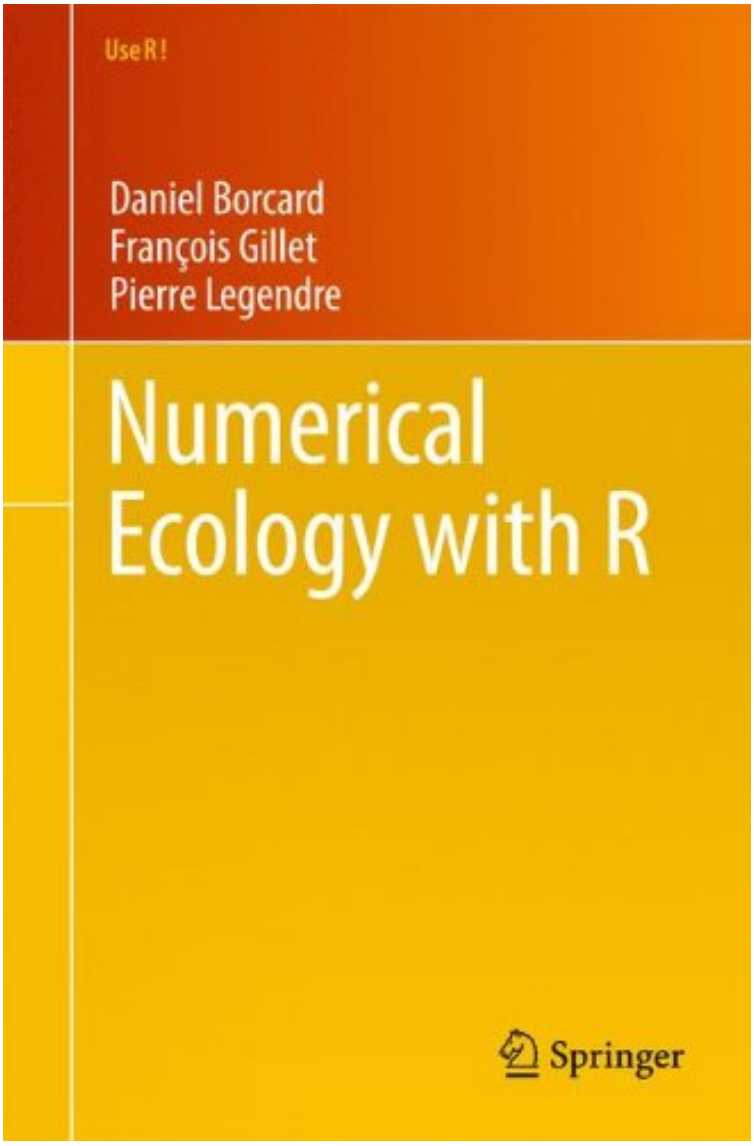

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Daniel Borcard, Francois Gillet, Pierre Legendre : Numerical Ecology with R (Use R!) before purchasing it in order to gage whether or not it would be worth my time, and all praised Numerical Ecology with R (Use R!):

1 of 1 people found the following review helpful. This book is getting me through my dissertation!By J. BeckerThis is a very practical book that gives excellent examples of how to use many of the Numerical Ecology techniques. It's really a partner book to Legendre Legendre (1998). Many of the techniques there have been written into R packages, and this book guides you through how to utilize them. A must for anyone who is going beyond basic stats in to the

realm of multivariate or spatial statistics.0 of 0 people found the following review helpful. Great sibling book to Legendre and Legendre!By JEGThis is a must have for any PhD student, teacher, or researcher interested in quantitative ecology with a need for more advanced technical computations. Even better is pairing this book to Legendre and Legendre!0 of 0 people found the following review helpful. Good book, very focused in R codeBy FredGood book, very focused in R code. However I believe that book works better as an supplement of "Numerical Ecology" (Legendre and Legendre) than a complete book with both good theoretical and practical approach.

Numerical Ecology with R provides a long-awaited bridge between a textbook in Numerical Ecology and the implementation of this discipline in the R language. After short theoretical overviews, the authors accompany the users through the exploration of the methods by means of applied and extensively commented examples. Users are invited to use this book as a teaching companion at the computer. The travel starts with exploratory approaches, proceeds with the construction of association matrices, then addresses three families of methods: clustering, unconstrained and canonical ordination, and spatial analysis. All the necessary data files, the scripts used in the chapters, as well as the extra R functions and packages written by the authors, can be downloaded from a web page accessible through the Springer web site(http://adn.biol.umontreal.ca/~numericalecology/numecolR/).This book is aimed at professional researchers, practitioners, graduate students and teachers in ecology, environmental science and engineering, and in related fields such as oceanography, molecular ecology, agriculture and soil science, who already have a background in general and multivariate statistics and wish to apply this knowledge to their data using the R language, as well as people willing to accompany their disciplinary learning with practical applications. People from other fields (e.g. geology, geography, paleoecology, phylogenetics, anthropology, the social and education sciences, etc.) may also benefit from the materials presented in this book. The three authors teach numerical ecology, both theoretical and practical, to a wide array of audiences, in regular courses in their Universities and in short courses given around the world. Daniel Borcard is lecturer of Biostatistics and Ecology and researcher in Numerical Ecology at Universit de Montral, Qubec, Canada. Franois Gillet is professor of Community Ecology and Ecological Modelling at Universit de Franche-Comt, Besanon, France. Pierre Legendre is professor of Quantitative Biology and Ecology at Universit de Montral, Fellow of the Royal Society of Canada, and ISI Highly Cited Researcher in Ecology/Environment.

From the reviews:It is aimed at people who have not used the free software R before, and covers how to install it onto your computer . this book aims to provide a bridge between the theory and practice of numerical ecology. provides a gentle introduction, reviewing various types of exploratory data analysis. This will be of use by final year undergraduate project students, academics and researchers who are looking to extend their statistical repertoire. (Bulletin of the British Ecological Society, Vol. 43 (1), March, 2012)The text is well written and ideal as either a course companion or for personal study. Each chapter explains clearly the objectives underlying the presentation of the material considered and each includes a final conclusion section so that the key points can be referred to subsequently. The authors text deserves to become a standard reference for anyone working in ecological science and more specifically, in numerical ecology. (Carl M. OBrien, International Statistical , Vol. 80 (1), 2012)This companion volume shows how to use R and various packages pertinent to ecology. this volume is an excellent contribution to the evolution of quantitative ecology and is a must read. (Donald E. Myers, Technometrics, Vol. 54 (2), May, 2012)From the Back CoverNumerical Ecology with R provides a long-awaited bridge between a textbook in Numerical Ecology and the implementation of this discipline in the R language. After short theoretical overviews, the authors accompany the users through the exploration of the methods by means of applied and extensively commented examples. Users are invited to use this book as a teaching companion at the computer. The travel starts with exploratory approaches, proceeds with the construction of associationmatrices, then addresses three families of methods: clustering, unconstrained and canonical ordination,and spatial analysis. All the necessary data files, the scripts used in the chapters, as well as the extra R functions and packages written by the authors, can be downloaded from a web page accessible through the Springer web site(http://adn.biol.umontreal.ca/~numericalecology/numecolR/).This book is aimed at professional researchers, practitioners, graduate students and teachers in ecology, environmental science and engineering, and in related fields such as oceanography, molecular ecology, agriculture and soil science, who already have a background in general and multivariate statistics and wish to apply this knowledge to their data using the R language, as well as people willing to accompany their disciplinary learning with practical applications. People from other fields (e.g. geology, geography, paleoecology, phylogenetics, anthropology, the social and education sciences, etc.) may also benefit from the materials presented in this book. The three authors teach numerical ecology, both theoretical and practical, to a wide array of audiences, in regular courses in their Universities and in short courses given around the world. Daniel Borcard is lecturer of Biostatistics and Ecology and researcher in Numerical Ecology at Universit de Montral, Qubec, Canada. Franois Gillet is professor of Community Ecology and Ecological Modelling at Universit de Franche-Comt, Besanon, France. Pierre Legendre is professor of Quantitative Biology and Ecology at Universit de Montral, Fellow of the Royal Society of Canada, and ISI Highly Cited Researcher in Ecology/Environment.About the AuthorThe three authors teach numerical ecology, both theoretical and practical, to a

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