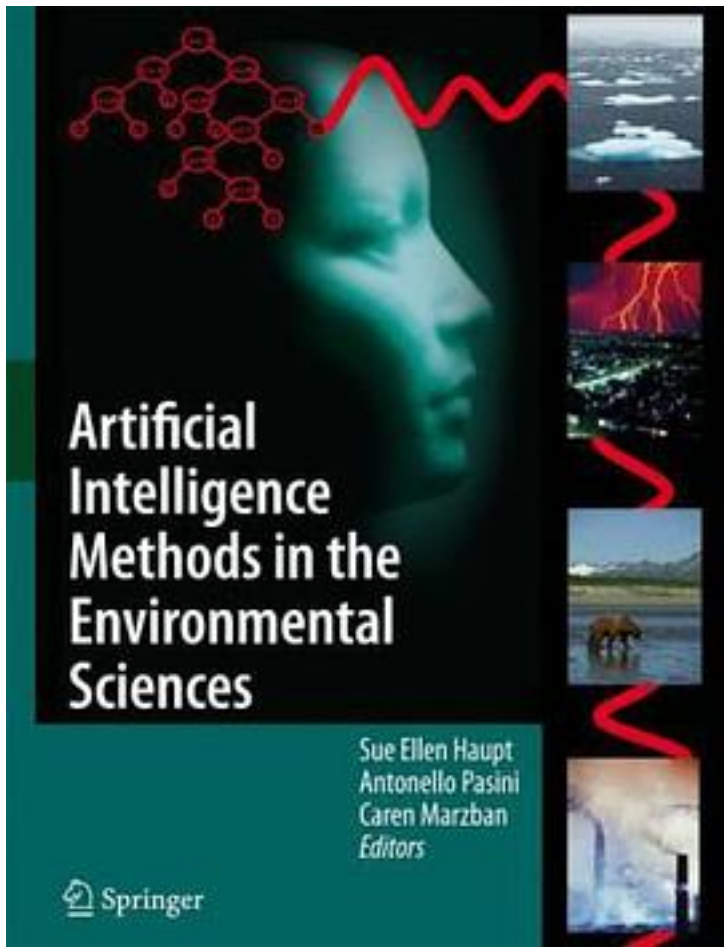# Artificial Intelligence Methods in the Environmental Sciences

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出版者:

出版时间:2008-11

装帧:

isbn:9781402091179

How can environmental scientists and engineers use the increasing amount of

available data to enhance our understanding of planet Earth, its systems and processes? This book describes various potential approaches based on artificial intelligence (AI) techniques, including neural networks, decision trees, genetic algorithms and fuzzy logic. Part I contains a series of tutorials describing the methods and the important considerations in applying them. In Part II, many practical examples illustrate the power of these techniques on actual environmental problems. International experts bring to life ways to apply AI to problems in the environmental sciences. While one culture entwines ideas with a thread, another links them with a red line. Thus, a 'red thread' ties the book together, weaving a tapestry that pictures the 'natural' data-driven AI methods in the light of the more traditional modeling techniques, and demonstrating the power of these data-based methods.

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