Complex Adaptive Systems
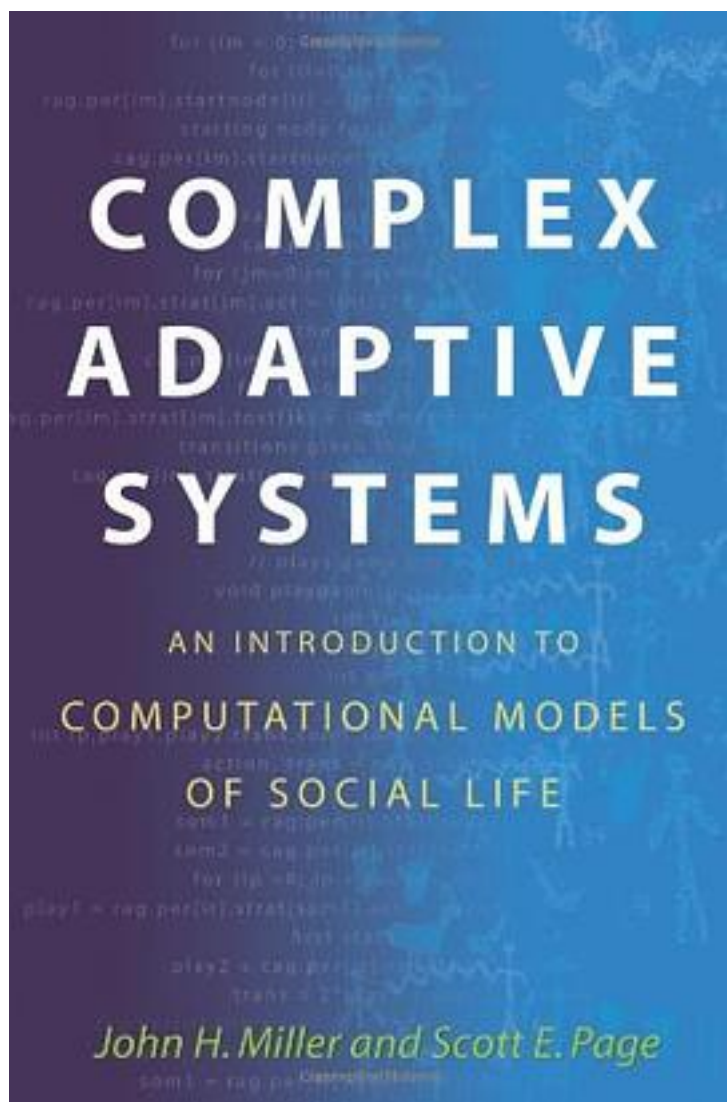
Complex Adaptive Systems_下载链接1_

著者:John H. Miller

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This book provides the first clear, comprehensive, and accessible account of complex adaptive social systems, by two of the field's leading authorities. Such systems - whether political parties, stock markets, or ant colonies - present some of the most intriguing theoretical and practical challenges confronting the social sciences. Engagingly written, and balancing technical detail with intuitive explanations, "Complex Adaptive Systems" focuses on the key tools and ideas that have emerged in the field since the mid-1990s, as well as the techniques needed to investigate such systems. It provides a detailed introduction to concepts such as emergence, self-organized criticality, automata, networks, diversity, adaptation, and feedback. It also demonstrates how complex adaptive systems can be explored using methods ranging from mathematics to computational models of adaptive agents. John Miller and Scott Page show how to combine ideas from economics, political science, biology, physics, and computer science to illuminate topics in organization, adaptation, decentralization, and robustness. They also demonstrate how the usual extremes used in modeling can be fruitfully transcended.

作者介绍:

John H. Miller is professor of economics and social sciences at Carnegie Mellon University.

Scott E. Page is professor of complex systems, political science, and economics at the University of Michigan. He is the author of "The Difference" (Princeton).

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标签

复杂系统

复杂性科学

复杂性

complexity

社科

社会学

modeling

建模

评论

怎么这么多书要读。。。

在宾大的时候一个老师送给我的！

2017

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书评

下面是我对这本书的粗浅理解和感想，供同好参考： 一、
对于复杂适应社会，已有的模型中的各个主体要么是无知，要么是先知，而复杂系统却
介于这两个极端之间，因此本书的角度是任意数量的异质性个体在一个时空受限的动态
环境中相互作用。 二、 本书最关键的结论是：复杂系统的...

本书总体上是试图去阐明仿真和计算方法对于研究复杂社会科学的意义。
本书的写法是很细节、学术化的，我跳过了很多具体描述网络模型的章节，主要关注了
作为一种方法论的动力学仿真能给社会科学带来什么样的视角。
工具和方法塑造着研究者的观点，无论研究者本身愿不愿意承认。...

In addition to the utilities suggested by the title that the book is an introduction to the

computational models of social complex adaptive system, this is a good book to learn about the new development in formalism in adaptive system, or more broadly nonli...

《复杂适应系统(社会生活计算模型导论)》是首部全面、清晰且令人易于理解地阐述复杂适应社会系统的著作，由该领域两位权威学者联袂完成。复杂适应社会系统——不论是"政治党派"、"股票市场"，还是蚂蚁群落——都体现了社会科学在理论上与实践上所面临的一些最有趣的挑战。...

挂一漏万，随便说几句感触比较深的。
在对事件研究之前，首先对事件进行有效的分类，也可近似称为模式识别。
大体上作者将事件分为简单性事件和复杂性事件，前者的特征是线性的、预测较易的；后者的特征是非线性的、预测较难甚至是不可预测的，之所以如此就是因为复杂系统的
...

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