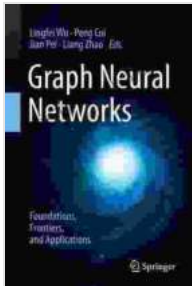


Graph Neural Networks: Foundations, Frontiers, and Applications



Graph Neural Networks: Foundations, Frontiers, and Applications by Lia Celi

★★★★☆ 4.5 out of 5

Language : English

File size : 22329 KB

Screen Reader : Supported

Print length : 195 pages



Graph neural networks (GNNs) are a powerful class of deep learning models that can be used to represent and reason about data that is structured as a graph. In recent years, GNNs have achieved state-of-the-art results on a wide range of tasks, including node classification, link prediction, and graph generation.

This book provides a comprehensive overview of the foundations of GNNs, as well as the latest advances in the field. The book is divided into three parts:

- **Part I: Foundations** introduces the basic concepts of GNNs, including the different types of graph data, the different types of GNN architectures, and the different training algorithms for GNNs.
- **Part II: Frontiers** covers the latest advances in the field of GNNs, including the development of new GNN architectures, the application of GNNs to new tasks, and the theoretical analysis of GNNs.

- **Part III: Applications** provides a detailed overview of the applications of GNNs in a variety of different domains, including social network analysis, recommender systems, and drug discovery.

This book is a valuable resource for researchers and practitioners in the field of deep learning and machine learning. It provides a comprehensive overview of the foundations of GNNs, as well as the latest advances in the field. The book is also a great resource for students who are interested in learning about GNNs.

Table of Contents

- **Part I: Foundations**
 - Chapter 1: Introduction to Graph Neural Networks
 - Chapter 2: Types of Graph Data
 - Chapter 3: Types of Graph Neural Network Architectures
 - Chapter 4: Training Algorithms for Graph Neural Networks
- **Part II: Frontiers**
 - Chapter 5: New Graph Neural Network Architectures
 - Chapter 6: Applications of Graph Neural Networks to New Tasks
 - Chapter 7: Theoretical Analysis of Graph Neural Networks
- **Part III: Applications**
 - Chapter 8: Graph Neural Networks for Social Network Analysis
 - Chapter 9: Graph Neural Networks for Recommender Systems

- Chapter 10: Graph Neural Networks for Drug Discovery

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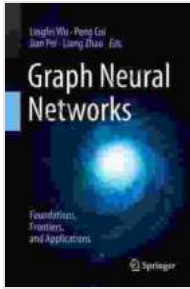
Reviews

"This book is a comprehensive and up-to-date overview of the field of graph neural networks. It is a valuable resource for researchers and practitioners in the field of deep learning and machine learning." - **Michael Jordan, University of California, Berkeley**

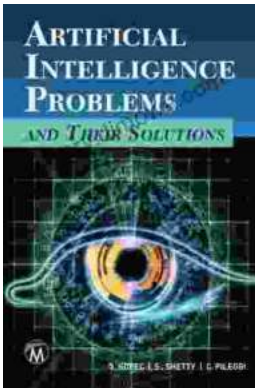
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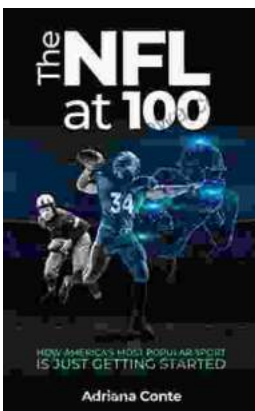


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