Levnajic

Network model selection: A review of methods

Understanding the processes behind the evolution of complex networks is a key objective in network science. An effective framework for tackling this challenge is network model selection, which involves finding the model from a set of candidates that best explains a given network. This book is a systematic review of methods for this purpose. Each method is outlined in three parts: its core principle (used to organize methods into four categories), other relevant details including my own observations, and software availability. The book provides a comprehensive overview of the state-of-the-art in network model selection and concludes by exploring future directions. A unified, optimal method could identify the mechanisms that shape real-world networks more precisely than any current approach. This work represents the first step toward developing such an optimal method. It will be a valuable resource for students and researchers in network science.

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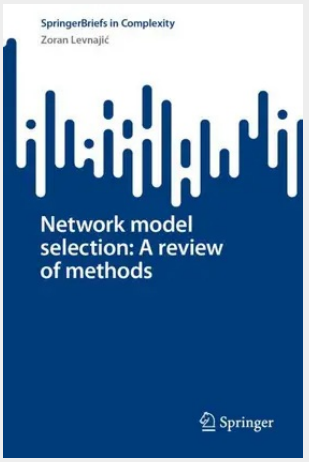

53,49 €
49,99 € (zzgl. MwSt.)

vorbestellbar, Erscheinungstermin ca. Oktober 2026

Artikelnummer: 9783032304476
Medium: Buch
ISBN: 978-3-032-30447-6
Verlag: Springer Nature Switzerland AG
Erscheinungstermin: 14.10.2026
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2026
Serie: SpringerBriefs in Complexity
Produktform: Kartoniert
Seiten: 92
Format (B x H): 155 x 235 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)