



A Graph-Theoretic Approach to Enterprise Network Dynamics (Progress in Computer Science and Applied Logic)

By Horst Bunke, Peter J. Dickinson, Miro Kraetzel, Walter D. Wallis

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This monograph treats the application of numerous graph-theoretic algorithms to a comprehensive analysis of dynamic enterprise networks. Network dynamics analysis yields valuable information about network performance, efficiency, fault prediction, cost optimization, indicators and warnings. Based on many years of applied research on generic network dynamics, this work covers a number of elegant applications (including many new and experimental results) of traditional graph theory algorithms and techniques to computationally tractable network dynamics analysis to motivate network analysts, practitioners and researchers alike.

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Editorial Review

Review

From the reviews:

"This book introduces various graph theory topics, and shows how these concepts can be used to solve some of the real problems that arise in these five functional areas. ... It is more suitable for research professors working with data networks, graduate students in the subject, or advanced undergrads in discrete mathematics." (G. M. White, Computing Reviews, Vol. 50 (1), January, 2009)

"This monograph focusses on the dynamic nature of networks. It provides guidance in answering questions concerning the detection and identification of faults Most mathematicians will appreciate the applications ... and at the same time find numerous open problems in mathematics suggested by the needs of dynamic network modelling. ... The monograph should prove interesting not only to network managers, but also to mathematicians in a variety of fields. ... it provides a good starting point for the underlying mathematics." (Charles J. Colbourn, Zentralblatt MATH, Vol. 1157, 2009)

From the Back Cover

Networks have become nearly ubiquitous and increasingly complex, and their support of modern enterprise environments has become fundamental. Accordingly, robust network management techniques are essential to ensure optimal performance of these networks. This monograph treats the application of numerous graph-theoretic algorithms to a comprehensive analysis of dynamic enterprise networks. Network dynamics analysis yields valuable information about network performance, efficiency, fault prediction, cost optimization, indicators and warnings.

The exposition is organized into four relatively independent parts: an introduction and overview of typical enterprise networks and the graph theoretical prerequisites for all algorithms introduced later; an in-depth treatise of usage of various graph distances for event detection; a detailed exploration of properties of underlying graphs with modeling applications; and a theoretical and applied treatment of network behavior inferencing and forecasting using sequences of graphs.

Based on many years of applied research on generic network dynamics, this work covers a number of elegant applications (including many new and experimental results) of traditional graph theory algorithms and techniques to computationally tractable network dynamics analysis to motivate network analysts, practitioners and researchers alike. The material is also suitable for graduate courses addressing state-of-the-art applications of graph theory in analysis of dynamic communication networks, dynamic databasing, and knowledge management.

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Deanna Reed:

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