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""Bilinear Markovian Processes of Search for Stationary and Moving Objects""""On Risk-Averse Weighted k-Club Problems""; ""Distributed Computer Attack Detection System for Corporate Networks""; ""Optimal Balanced Packing Using Phi-Function Technique""; ""Security in Wireless Networks: A Tutorial""; ""Approximation Algorithms for Detecting Critical Nodes""; ""Subject Index""; ""Author Index""

Sommario/riassunto

Modern critical infrastructure is characterized by complex, heterogeneous and dynamically evolving networks. But these can be vulnerable to component failure, and this is a problem which must be addressed by realistic mathematical models. This book presents papers from the NATO Advanced Research Workshop (ARW), Examining Robustness and Vulnerability of Critical Infrastructure Networks, held in Kiev, Ukraine, in June 2013. Contributions were from workshop participants as well as invited experts in the field, and cover topics including: mathematical models; probability-based risk measures; algor
