# Advances in Network Management

*By Jianguo Ding*

**Advances in Network Management** By Jianguo Ding

Over the past two decades, business volume of hardware and software in the U.S has decreased by about seventy percent, while the cost of management and support has grown from $20 billion to $140 billion. With close to seventy percent of this growing figure being spent on the management of legacy systems and only thirty percent on new systems, improvements in the development of self-managing systems have become a cost-saving priority for many corporations and an issue of strategic importance for many economies.

Investigating the latest theories, methods, and technologies, **Advances in Network Management** provides the insight of a recognized expert into the fundamental concepts and contemporary challenges in network management. From basic concepts to research-level material, it details the evolution of network management solutions in network management paradigms, protocols, and techniques. The book also addresses dependencies between network management and application-level service management.

This forward-looking resource investigates advanced networks and network services including—autonomic computing, context-aware systems management, and automatic techniques aiming at self-management (self-configuration, self-healing, self-optimization, and self-protection). With its breadth and depth of coverage in theoretical, technical, and research topics, this book provides time-tested guidance for dealing with the growing complexity of network services while improving cost efficiencies in your IT department.

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Review

*The author raises essential issues at stake and brings the necessary expertise and experience identifying the challenges and proposing recommendations of great value…*
?Latif Ladid, IPv6 Forum President, 2009

*Ding explores new management solutions, paradigms, protocols, and techniques that are being developed to keep up with the increasing size and complexity of computer and communication networks. His treatment ranges from basic concepts to research level material, and is suitable for researchers, advanced students, professional network managers, and network designers and planners. He covers the evolution of networks and of network management, theories and techniques for network management, managing emerging networks and services, and autonomic computing and self-management.*
?*Book News*, June 2010

*This book deals with different network management techniques. It presents theory and practice related to commonly used as well as new protocols. The author describes management systems architectures and corresponding standards. He explains, in detail, how protocol components communicate with each other. All parts of the book are supported by diagrams which help the reader to understand complex issues of network resources management. … This book is a good source for every computer specialist who really wants to broaden his/her knowledge of computer network administration.*
?Jozef Wo?niak (Gda?sk) in *Zentralblatt MATH*, 1196-1

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