



# Computer Network Security

By Joseph Migga Kizza

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A comprehensive survey of computer network security concepts, methods, and practices. This authoritative volume provides an optimal description of the principles and applications of computer network security in particular, and cyberspace security in general. The book is thematically divided into three segments: Part I describes the operation and security conditions surrounding computer networks; Part II builds from there and exposes readers to the prevailing security situation based on a constant security threat; and Part III - the core - presents readers with most of the best practices and solutions currently in use. It is intended as both a teaching tool and reference. This broad-ranging text/reference comprehensively surveys computer network security concepts, methods, and practices and covers network security tools, policies, and administrative goals in an integrated manner. It is an essential security resource for undergraduate or graduate study, practitioners in networks, and professionals who develop and maintain secure computer network systems.

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### Editorial Review

#### Review

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"Computer security basics are covered in this book. ... it is targeted at students. This is evident in the very fluent and comprehensive writing style, and the generally good examples and review questions at the end of each chapter. ... the book is very well written ... with strong structuring. Every chapter has good references, and includes nice exercises and student projects as resources for lecturers. I recommend this book as a good foundational book and educational tool for network security in a university environment." (Andreas Tomek, Computing Reviews, April, 2006)

#### From the Back Cover

As society becomes increasingly dependent on computers and computer networks, computer problems continue to rise in number. Yet despite the proliferation of expert remedies, a viable solution to these security issues remains elusive, and society continues to suffer at the hands of cyber vandalism and computer viruses. This comprehensive text outlines and discusses today's most important issues and concerns in computer network and information safety and security, and promises to ignite debate and participation in the ongoing global security dialog

Computer Network Security is foremost an educational tool that aims to explore computer network infrastructure and protocol design security flaws and discusses current security solutions and best practices. It explores the security threats and vulnerabilities in the current network infrastructure and protocols and outlines current efforts including: Access Control and Authorization, Cryptography, Firewalls and VPNs, Web Security and Content Filtering, among others. The text further discusses various security proposals including:

\* Raising awareness of the security problems in cyberspace, and, more particularly, computer network security

\* Starting a discussion on computer network infrastructure and protocol design flaws and vulnerabilities

\* Exploring the role of legislation and law enforcement in maintaining computer and computer network security

\* Proposing efficient and widely acceptable solutions and best practices to the security problem, and encouraging readers to investigate other possible solutions

This text is an invaluable instructional and research tool for courses in computer and information security.

Students or practitioners in computer science, information science, technology studies, library sciences, and information management studies will find this text particularly useful for their purposes. In addition, it is a rich resource for those looking to gain an understanding of computer infrastructures and network security threats.

## About the Author

Joseph Migga Kizza is currently a Professor of Computer Science at the University of Tennessee at Chattanooga where he teaches courses in computer network security, computer ethics, operating systems, digital design systems, and computer architecture. Professor Kizza has been invited to many international venues to speak on cyberspace security, cyberspace ethics, social and ethical issues and social issues in computing. In 2003, he was awarded the International IIS award for exemplary research in engineering and computing. He has published six books in computer network security and computer ethics, with one book translated into Japanese. He has also published several book chapters, and journal articles mostly on computer security and computer ethics, conducted a number of international workshops, and presented invited and conference papers. He was a 2004 Fulbright Scholar to Uganda. He is a UNESCO expert in Information Technology and a member of IFIP and ACM.

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