



# Guide to Computer Network Security (Computer Communications and Networks)

By Joseph Migga Kizza

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This comprehensive guide exposes the security risks and vulnerabilities of computer networks and networked devices, offering advice on developing improved algorithms and best practices for enhancing system security. Fully revised and updated, this new edition embraces a broader view of computer networks that encompasses agile mobile systems and social networks. Features: provides supporting material for lecturers and students, including an instructor's manual, slides, solutions, and laboratory materials; includes both quick and more thought-provoking exercises at the end of each chapter; devotes an entire chapter to laboratory exercises; discusses flaws and vulnerabilities in computer network infrastructures and protocols; proposes practical and efficient solutions to security issues; explores the role of legislation, regulation, and law enforcement in maintaining computer and computer network security; examines the impact of developments in virtualization, cloud computing, and mobile systems.

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### Editorial Review

#### Review

From the reviews of the second edition:

“The book is an exhaustive survey on computer network security. It presents theoretical, practical problems and applications related to cyberspace security in general and computer network security in particular. ... this is a very well designed and implemented book that could be used by beginners and professionals in the field of computer network security.” (Todor Todorov, *zbMATH*, Vol. 1278, 2014)

“Kizza (Univ. of Tennessee at Chattanooga) includes a thorough primer on networking fundamentals and security concepts that will be helpful for readers with a range of expertise. ... This is an accessible and illustrative read on the topic ... . It will be useful for students and anyone curious about societal and personal concerns over the safety of networks in homes, offices, big business, and government. *Summing Up: Highly recommended. Lower- and upper-division undergraduates, two-year technical program students, and general readers.*” (T. D. Richardson, *Choice*, Vol. 51 (4), December, 2013)

#### From the Back Cover

With the growth of cloud computing, social networks, and ever more advanced mobile devices, information security and assurance has become more important than ever before.

This comprehensive and authoritative *Guide to Computer Network Security* exposes the various security risks and vulnerabilities of computer networks and networked devices, offering advice on developing improved algorithms and best practices for enhancing system security. Fully revised and updated, this much-anticipated new edition embraces a broader view of computer networks that encompasses new agile mobile systems and social networks.

#### Topics and features:

- Provides supporting material for lecturers and students at an associated website, including an instructor’s manual, slides, solutions, and laboratory materials
- Includes both quickly-workable questions and more thought-provoking advanced exercises at the end of each chapter
- Devotes an entire chapter to laboratory exercises, offering both weekly and semester-long assignments, and hard open research projects
- Surveys known security threats, and discusses flaws and vulnerabilities in computer network infrastructures and protocols
- Reviews existing best practices, proposes practical and efficient solutions to security issues, and encourages readers to investigate alternative possible approaches
- Explores the role of legislation, regulation, and law enforcement in maintaining computer and computer network security
- Examines the impact of developments in virtualization, cloud computing, and mobile systems, which have extended the boundaries of the traditional computer network

This unique text/reference is an essential instructional and research tool for undergraduates in computer

science and engineering. It is also a valuable reference for practitioners involved in computer networks and data security.

About the Author

**Dr. Joseph Migga Kizza** is a Professor and Director of the Center for Information Security and Assurance at the University of Tennessee at Chattanooga, TN, USA. Among his other publications is the successful Springer textbook *Ethical and Social Issues in the Information Age*.

## Users Review

**From reader reviews:**

**Julie Boyle:**

What do you concentrate on book? It is just for students because they're still students or the item for all people in the world, the actual best subject for that? Just you can be answered for that question above. Every person has various personality and hobby per other. Don't to be obligated someone or something that they don't desire do that. You must know how great as well as important the book *Guide to Computer Network Security (Computer Communications and Networks)*. All type of book can you see on many methods. You can look for the internet solutions or other social media.

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**Michael Ogden:**

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