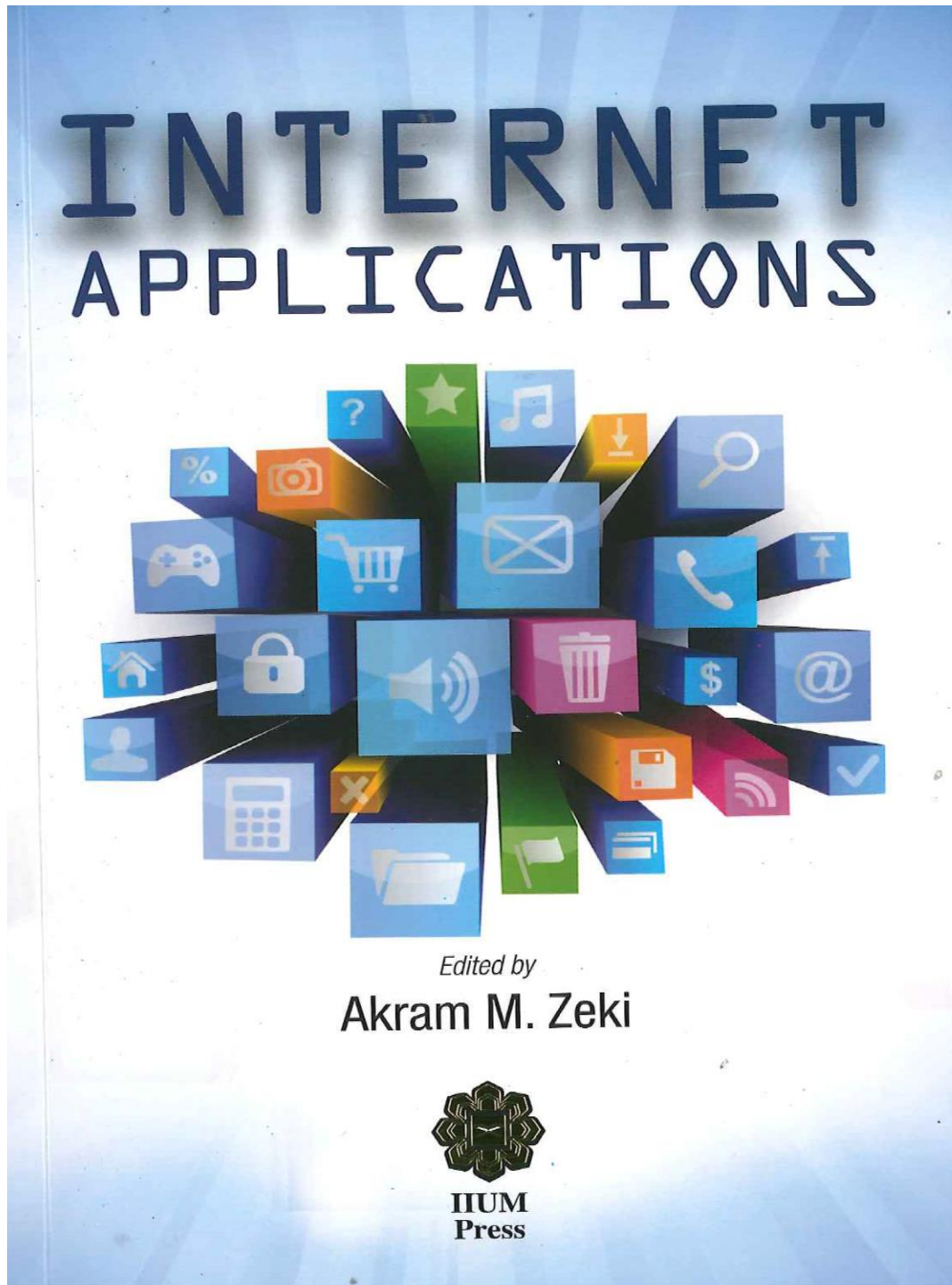


Internet application.



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Edited by
Akram M. Zeki



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Chapter 5

Multimedia Security and the Internet

Akram M. Zeki

Adamu A. Ibrahim

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Introduction

The use of data hiding as a viable form of communication has been largely propelled by the growth of the Internet. The Internet offers an opportunity to exchange large amounts of digital information over great distances. The prevalence of media such as audio, videos, and images on the Internet provides an ideal channel for data hiding communication. Voice over Internet Protocol (VoIP) became a natural target for data hiding, it is appropriate to enable hidden communication throughout Internet Protocol (IP) networks. VoIP data hiding covers a wide range of information hiding techniques; including popular techniques based on IP. This chapter is trying to discover some of the data hiding applications and techniques over Internet.

The digital revolution has brought profound changes in information communication and data processing. Digital media are gradually replacing their classical analog counterparts. The Internet has become the most important source of information, and it offers ubiquitous channels to deliver and exchange information. Digital media can easily be shared via the Internet and conveniently processed for queries in databases. Nowadays, we live in a digital and Internet world. For this reason, the security of multimedia data on the Internet has been a challenging topic (Szczypiorski and Mazurczyk, 2008).

Digital representation of signals has brought many advantages as compared to the analog representations; these include lossless