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Sommario/riassunto

This engaging textbook highlights the essential need for a strong ethical framework when teaching or working in the computing, information, and engineering sciences. Thoroughly enhanced, the third edition features revised chapters with new and updated content, as well as a new chapter, Ethics and Social Responsibility in the Metaverse. The book's approach is candid and intended to ignite students' and professionals' interest and active participation in discussions of relevant current—and potential future—issues. Through thought-provoking questions and case studies, readers are challenged to consider the deep implications arising from use of rapidly evolving computing technologies and ever-changing communication ecosystems. Topics and features—including fully updated content: Introduces a philosophical framework and tools for understanding and analyzing ethics in personal, public, and professional spheres Includes learning objectives, discussion questions and exercises Discusses the security and ethical quagmire in the developing metaverse (NEW chapter) Examines intellectual property rights, including risks and liabilities associated with software Discusses such key social issues as the digital divide, employee monitoring in the workplace, and risks to physical and mental health Reviews the history of computer crime, and the threat of digitally facilitated bullying, harassment, and discrimination Considers ethical challenges arising from online social networks, mobile telecommunication technologies, virtual reality, the Internet of Things and 5G technologies This concise and accessible textbook addresses the ethical issues important to all designers and users of computer technologies. The text incorporates the latest curricula requirements for undergraduate courses in computer science, as well as offers invaluable insights into the likely social impacts and legal challenges posed. Dr. Joseph Migga Kizza is Professor and Head, Department of Computer Science and Engineering at the University of Tennessee at Chattanooga, USA. He is author of the Springer titles Ethical and Social Issues in the Information Age and Guide to Computer Network Security.