

Undergraduate Topics in Computer Science

Joseph Migga Kizza

# Ethical and Secure Computing

A Concise Module

*Third Edition*



 Springer

# Ethics In Computing A Concise Module Undergraduate Topics In Computer Science

**Kenneth E. Himma, Herman T. Tavani**



## **Ethics In Computing A Concise Module Undergraduate Topics In Computer Science:**

*Ethics in Computing* Joseph Migga Kizza, 2016-05-09 This textbook raises thought provoking questions regarding our rapidly evolving computing technologies highlighting the need for a strong ethical framework in our computer science education *Ethics in Computing* offers a concise introduction to this topic distilled from the more expansive *Ethical and Social Issues in the Information Age* Features introduces the philosophical framework for analyzing computer ethics describes the impact of computer technology on issues of security privacy and anonymity examines intellectual property rights in the context of computing discusses such issues as the digital divide employee monitoring in the workplace and health risks reviews the history of computer crimes and the threat of cyberbullying provides coverage of the ethics of AI virtualization technologies virtual reality and the Internet considers the social moral and ethical challenges arising from social networks and mobile communication technologies includes discussion questions and exercises

**Ethical and Secure Computing** Joseph Migga Kizza, 2023-06-22 This textbook highlights the essential need for a strong ethical framework in our approach to teaching of and working in computer information and engineering sciences Through thought provoking questions and case studies the reader is challenged to consider the deeper implications arising from the use of today's rapidly evolving computing technologies and ever changing communication ecosystems This thoroughly revised and updated third edition features revised chapters with new and updated content and hardened the ethical framework To cope with the rapidly changing computing and telecommunication ecosystem a new chapter *Ethics and Social Responsibility in the Metaverse* has been added The interface between our current universe and the evolving metaverse presents a security quagmire The discussion throughout the book is candid and intended to ignite students and professionals interest and active participation in discussions of the issues we are facing now and those likely to emerge in the near future Topics and features including fully updated content Introduces a philosophical framework and tools for understanding and analyzing computer ethics in personal public and professional spheres Describes the impact of computer technology on issues of security privacy anonymity and civil liberties Discusses the security and ethical quagmire in the platforms of the developing metaverse NEW chapter Examines intellectual property rights in the context of computing including the risks and liabilities associated with software Discusses such key social issues in computing 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 the ethical challenges arising from online social networks mobile telecommunication technologies virtual reality the Internet of Things and 5G technologies Includes learning objectives discussion questions and exercises throughout This concise and accessible work addresses the critical ethical and moral 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 social impact and legal

challenges posed by the latest generation of computing devices and networks      *Guide to Java* James T. Streib, Takako Soma, 2023-03-12 This textbook presents a focused and accessible primer on the fundamentals of Java programming with extensive use of illustrative examples and hands on exercises Addressing the need to acquire a good working model of objects in order to avoid possible misconceptions the text introduces the core concepts of object oriented programming at any stage supported by the use of contour diagrams Each chapter has one or more complete programs to illustrate the various ideas presented and to help readers learn how to write programs on their own Chapter summaries and practical exercises also are included to help the reader to review their progress and practice their skills This substantially updated second edition has been expanded with additional exercises and includes new material on bit manipulation and parallel processing Topics and features Introduces computing concepts in Chapter 0 for new programmers Adds new chapters on bit manipulation and parallel processing Contains exercises at the end of each chapter with selected answers Supports both text based and GUI based Input Output Objects can be introduced first last or intermixed with other material Uses contour diagrams to illustrate objects and recursion Discusses OOP concepts such as overloading class methods and inheritance Introduces string variables and illustrates arrays and array processing Discusses files elementary exception processing and the basics of Javadoc This concise and easy to follow textbook guide is ideal for students in an introductory programming course It is also suitable as a self study guide for both practitioners and academics      *Being a Researcher* Carlo Ghezzi, 2020-06-22 This book explores research from the researchers perspective why to engage in research what methods to follow how to operate in daily life what the responsibilities are how to engage with society and the ethical issues confronting professionals in their day to day research The book systematically discusses what every student should be told when entering academic or industrial research so that they can avoid going through the painful process of learning by personal experience and lots of errors Rather than being technical it is philosophical and sometimes even anecdotal combining factual information and commonly accepted knowledge on research and its methods while at the same time clearly distinguishing between objective and factual concepts and data and subjective considerations The book is about scientific research in general and as such holds true for any scientific field However it is fair to say that the different fields differ in their research cultures and in their eco systems The book reflects the author s experience accumulated over almost 50 years of teaching graduate courses and lecturing in doctoral symposia at Politecnico di Milano University of Zurich TU Wien Peking University and at various conferences and of academic research in informatics also known as computer science This book is mainly intended for students who are considering research as a possible career option for in progress researchers who have entered doctoral programs and for junior postdoctoral researchers It will also appeal to senior researchers involved in mentoring students and junior researchers      *Computer Ethics* Deborah G. Johnson, 1985      *Ethics and Computing* Kevin W. Bowyer, 2000-10-26 All you have to do is watch the news or be warned not to open your email today to recognize the necessity for this revised and

enhanced edition of this critical work first published in 1995 We are inundated daily with intellectual property issues and warnings against computer viruses and hackers Government and law enforcement agency involvement in the security of our computer systems leaves us vulnerable to abuse of privacy and raises the specter of Big Brother Also many critical systems controlled by computers such as nuclear power facilities and missile defense systems are often designed and tested with an over reliance on computer modeling which can cause failure injury or loss of life Ethics and Computing Second Edition promotes awareness of these and other major issues and accepted procedures and policies in the area of ethics and computing using real world companies incidents products and people An entire chapter is dedicated to detailed analysis of the major ethical codes relevant to computing professionals The Association of Information Technology Professionals AITP code of ethics IEEE Institute of Electrical and Electronics Engineers code of ethics the Association of Computing Machinery codes of ethics and the ACM IEEE Software Engineering code of ethics Ethics and Computing Second Edition is ideally suited for topical undergraduate courses with chapters and assignments designed to encourage critical thinking and informed ethical decisions Furthermore this invaluable book will keep abreast computer science computer engineering and information systems professionals and their colleagues of current ethical issues and responsibilities Resources in education ,1984

**Ethical and Social Issues in the Information Age** Joseph Migga Kizza,2007-07-05 viii As we look for such a strategy technological development races on with new technologies that make our efforts and existing technologies on which they are based obsolete in shorter and shorter periods For example when I started to write the first edition in 1996 computer networking and associated computer network security were not big the Internet and associated d coms were yet to become commercialized and associated with big money and mass global computer network attacks like Malissa Love Boy and Distributed Denial of Services DDOS were unknown All these illustrate the speed at which the computing environment is changing and demonstrate a need for continuous review of the computer s ence education in both content and pedagogy So the focus in this edition is to address those changes In this edition I have made major changes in some of the chapters reorganized others and added new ones to bring the book update with current issues

**Computer Ethics and Professional Responsibility** Terrell Ward Bynum,Simon Rogerson,2003-09-11 This clear and accessible textbookand its associated website offer a state of the art introduction to the burgeoning field of computer ethics and professional responsibility Includes discussion of hot topics such as the history of computing the social context of computing methods of ethical analysis professional responsibility and codes of ethics computer security risks and liabilities computer crime viruses and hacking data protection and privacy intellectual property and the open source movement global ethics and the internet Introduces key issues and concepts at the start of each section and features classroom tested study questions and lists of useful websites and further reading Provides a wealth of relevant case studies and an easy to learn case analysis technique Is accompanied by a website offering sample student answers additional study questions example case analyses and discussion

forums Visit the website at [www.southernct.edu/organizations/RCCS](http://www.southernct.edu/organizations/RCCS) Textbook **Computer Ethics** Tom Forester, Perry Morrison, 1990-01-01 **Ethics, Computing, and Medicine** Kenneth W. Goodman, 1998 New technology always raises compelling ethical questions As those in medicine increasingly depend on computers and other intelligent machines the intersection of ethics computing and the health professions grows much more complex and significant This book attempts systematically to identify and address the full range of ethical issues that arise when intelligent machines are used in medicine nursing psychology and allied health professions It maps and explores a variety of important issues and controversies including ethics and evaluation in computational medicine patient and provider confidentiality responsibility for use of computers in medicine appropriate use of decision support systems outcomes of research and computational prognosis including mortality predictions and computer based biomedical research especially meta analysis This book is accessible to participants in the fields of bioethics and medical informatics It is appropriate for physicians nurses administrators ethicists health attorneys advanced undergraduates and graduate students **A Gift of Fire** Sara Baase, Timothy Henry, 2018 For courses in Computer Ethics and Computers and Society An objective study of technology ethics that inspires critical thinking and debate In Gift of Fire A Social Legal and Ethical Issues for Computing Technology Sara Baase presents a balanced exploration of the social legal philosophical ethical political constitutional and economic implications of computing and the controversies they raise With an objective computer scientist's perspective and with historical context for many issues Baase covers the issues readers will face both as members of a technological society and as professionals in computer related fields A primary goal is to develop computer professionals who understand the implications of what they create and how it fits into society at large This text encourages readers to think about the ethics and philosophical direction behind topics but doesn't then lead students to conclusions The 5th Edition contains updated material on new topics and examples outdated material has been removed and several topics have been reorganized New material appears throughout including material on current trending topics such as drones and autonomous cars

**Computer Ethics** Stamatellos, 2007 The rapid advancement of information technology in modern societies affects the way we live communicate work and entertain Computers and computer networks formulate an information age in which traditional ethical questions are re-examined and new questions arise concerning moral standards for human behavior **Computer Ethics A Global Perspective** presents a clear and concise introduction to the ethical and social issues sparked by our ever growing information society at the local and global level Designed for use as a main text in undergraduate and graduate courses that focus on computer business and applied ethics the text is also ideal for the Information Technology in a Global Society course for the International Baccalaureate diploma The text considers the impact of digitized information on individuals and societies and includes discussions on privacy reliability security intellectual property control equality of access and authenticity with insights from the scientists and philosophers who have attempted to evaluate explain and

resolve these issues The text also discusses the social impact of information technology in different areas of human life such as business health education entertainment and politics

The Handbook of Information and Computer Ethics Kenneth E. Himma, Herman T. Tavani, 2008-06-23 This handbook provides an accessible overview of the most important issues in information and computer ethics It covers foundational issues and methodological frameworks theoretical issues affecting property privacy anonymity and security professional issues and the information related professions responsibility issues and risk assessment regulatory issues and challenges access and equity issues Each chapter explains and evaluates the central positions and arguments on the respective issues and ends with a bibliography that identifies the most important supplements available on the topic

Ethical and Social Issues in the Information Age Joseph M. Kizza, 2007-06-02 Since the publication of the first edition in 1997 there have been tremendous changes in the fields of computer science and information sciences During this period we have become more dependent than ever before on computer and telecommunication technology As we both individually and as nations become more dependent on cyberspace technology it has itself become a critical component of individual nation's security infrastructures that control power grids gas and oil storage facilities transportation and all forms of national communication including emergency services The recent rise in cyber attacks many of them with lightning speed affecting millions of computers worldwide and causing billions of dollars in losses both to individuals and businesses is an indication of how unprepared we are to handle such attacks not only today but also in the future Such attacks are a mark of the poor state of our cyberspace security policies The facts that there are no signs to indicate there is going to be a slowdown in such attacks and that nations are not doing anything worth calling preventive has heightened the need for an effective strategy to produce responsible professionals who can play an active role in the fight against computer and cyber attacks and vandalism

**Computing Ethics** Abdelrahman Karrar, Kamal Dahbur, 2021 Ethics is an important basis for controlling and regulating human behavior in all areas of life including but not limited to dealing with other people at work This book covers ethical issues related to the field of information technology and computing and discusses some of the ethical issues from the perspective of the Arabic and Islamic cultures The book concentrates on understanding the legal ethical and societal issues related to the field of information technology and computing without indulging into the implications of these issues on other fields such as music or painting copyrights The book is well suited for undergraduate and graduate students in colleges and universities in the Middle East and Islamic world The book also provides an excellent foundation in ethical legal and cultural decision making for current and future professionals practitioners and managers in the field of computer science and information technology The book covers many fundamental and contemporary topics including Ethical theories philosophy responsibility and code of ethics History of computing ethics and ethics for the computing professions Professional ethics in Islam Negative uses of computers and the Internet Privacy anonymity and position of Islam on privacy Ethical issues related to software piracy and intellectual property Supporting and opposing Islamic views on intellectual

copyright Ethical Issues related to globalization Ethicality of threats and violation to information security Hackers vandals spyware and network security risks      **Ethics of Computing** Jacques J. Berleur, Klaus Brunnstein, 1996-04-30 This major reference work represents the first attempt to confront on a world wide basis the way computer associations face up to their own responsibilities in an age increasingly dominated by information and communication technology The book deals with the codes of ethics and conduct and related issues It is the first book to deal with homogenous codes namely codes of national computer societies Some thirty codes are compared and analysed in depth To put these into perspective there are discussion papers covering the methodological philosophical and organisational issues      Resources in Education ,1982      *The Ethics of Information Technologies* Keith W Miller, Mariarosaria Taddeo, 2020-08-13 This volume collects key influential papers that have animated the debate about information computer ethics over the past three decades covering issues such as privacy online trust anonymity values sensitive design machine ethics professional conduct and moral responsibility of software developers These previously published articles have set the tone of the discussion and bringing them together here in one volume provides lecturers and students with a one stop resource with which to navigate the debate      From Awareness to Action ImpactCS Project. Steering Committee, 1998

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