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Autore	Tzafestas Spyros G
Titolo	Roboethics : A Navigating Overview // by Spyros G. Tzafestas
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ISBN	3-319-21714-3
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (210 p.)
Collana	Intelligent Systems, Control and Automation: Science and Engineering, , 2213-8986 ; ; 1046
Disciplina	620
Soggetti	Control engineering Robotics Mechatronics Ethics Artificial intelligence Philosophy Control, Robotics, Mechatronics Artificial Intelligence Philosophy of Technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Introductory Concepts and Outline of the Book -- 2. Ethics: Fundamental Elements -- 3. Artificial Intelligence -- 4. The World of Robots -- 5. Roboethics: A Branch of Applied Ethics -- 6. Medical Roboethics -- 7. Assistive Roboethics -- 8. Socialized Roboethics -- 9. War Roboethics -- 10. Japanese roboethics, Intercultural and Legislation Issues -- 11. Additional Roboethics Issues -- 12. Mental Robots.
Sommario/riassunto	This volume explores the ethical questions that arise in the development, creation and use of robots that are capable of semiautonomous or autonomous decision making and human-like action. It examines how ethical and moral theories can and must be applied to address the complex and critical issues of the application of these intelligent robots in society. Coverage first presents fundamental concepts and provides a general overview of ethics, artificial

intelligence and robotics. Next, the book studies all principal ethical applications of robots, namely medical, assistive, socialized and war roboethics. It looks at such issues as robotic surgery, children-robot and elderly-robot therapeutical/social interactions and the use of robots, especially autonomous lethal ones, in warfare. In addition, a chapter also considers Japanese roboethics as well as key intercultural and robot legislation issues. Overall, readers are provided with a thorough investigation into the moral responsibility (if any) of autonomous robots when doing harm. This volume will serve as an ideal educational source in engineering and robotics courses as well as an introductory reference for researchers in the field.
