

ARMIN GRUNWALD RESPONSIBLE
NANOBIOTECHNOLOGY
Philosophy and Ethics

Responsible Nanobiotechnology Philosophy And Ethics

Matthew Scott Hull, Diana Bowman



Responsible Nanobiotechnology Philosophy And Ethics:

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Responsibility in Nanotechnology Development Simone Arnaldi, Arianna Ferrari, Paolo Magaudo, Francesca Marin, 2014-07-08 This book disentangles the complex meanings of responsibility in nanotechnology development by focusing on its theoretical and empirical dimensions The notion of responsibility is extremely diversified in the public discourse of nanoscale technologies Addressed are major disciplinary perspectives working on nanotechnology e g philosophy sociology and political science as well as the major multidisciplinary areas relevant to the innovation process e g technology assessment and ethics Furthermore the interplay between such expertises disciplines and research programmes in providing a multidisciplinary understanding of responsibility is emphasized

Codes of Ethics and Ethical Guidelines Kelly Laas, Michael Davis, Elisabeth Hildt, 2022-01-03 This book investigates how ethics generally precedes legal regulation and looks at how changes in codes of ethics represent an unparalleled window into the research innovation and emerging technologies they seek to regulate It provides case studies from the fields of engineering science medicine and social science showing how professional codes of ethics often predate regulation and help shape the ethical use of emerging technologies and professional practice Changes in professional ethics are the crystallization of ongoing conversation in scientific and professional fields about how justice privacy safety and human rights should be realized in practice where the law is currently silent This book is a significant addition to this area of practical and professional ethics and is of particular interest to practitioners scholars and students interested in the areas of practical and applied ethics

Responsible Innovation Richard Owen, John R. Bessant, Maggy Heintz, 2013-03-21 Science and innovation have the power to transform our lives and the world we live in for better or worse in ways that often transcend borders and generations from the innovation of complex financial products that played such an important role in the recent financial crisis to current proposals to intentionally engineer our Earth's climate The promise of science and innovation brings with it ethical dilemmas and impacts which are often uncertain and unpredictable it is often only once these have emerged that we feel able to control them How do we

undertake science and innovation responsibly under such conditions towards not only socially acceptable but socially desirable goals and in a way that is democratic equitable and sustainable Responsible innovation challenges us all to think about our responsibilities for the future as scientists innovators and citizens and to act upon these This book begins with a description of the current landscape of innovation and in subsequent chapters offers perspectives on the emerging concept of responsible innovation and its historical foundations including key elements of a responsible innovation approach and examples of practical implementation Written in a constructive and accessible way Responsible Innovation includes chapters on Innovation and its management in the 21st century A vision and framework for responsible innovation Concepts of future oriented responsibility as an underpinning philosophy Values sensitive design Key themes of anticipation reflection deliberation and responsiveness Multi level governance and regulation Perspectives on responsible innovation in finance ICT geoengineering and nanotechnology Essentially multidisciplinary in nature this landmark text combines research from the fields of science and technology studies philosophy innovation governance business studies and beyond to address the question How do we ensure the responsible emergence of science and innovation in society

Nanotechnology and Ethical Governance in the European Union and China Sally Dalton-Brown, 2015-06-03 This book addresses questions surrounding the feasibility of a global approach to ethical governance of science and technology The emergence and rapid spread of nanotechnology offers a test case for how the world might act when confronted with a technology that could transform the global economy and provide solutions to issues such as pollution while potentially creating new environmental and health risks The author compares ethical issues identified by stakeholders in China and the EU about the rapid introduction of this potentially transformative technology a fitting framework for an exploration of global agency The study explores the discourse ethics and participatory Technology Assessment pTA inspired by the work of Jürgen Habermas to argue that different views can be universally recognized and agreed upon perhaps within an ideal global community of communication The book offers a developed discourse model utilizing virtue ethics as well as the work of Taylor Beck Korsgaard and others on identity formation as a way forward in the context of global ethics The author seeks to develop new vocabularies of comparison to discover shared aspects of identity and to achieve hopefully an intercultural personhood that may lead to a global ethics The book offers a useful guide for researchers on methods for advancing societal understanding of science and technology The author addresses a broad audience from philosophers ethicists and scientists to the interested general reader For the layperson one chapter surveys nanoissues as depicted in fiction and another offers a view of how an ordinary citizen can act as a global agent of change in ethics

Living Technology Armin Grunwald, 2021-06-16 The boundaries between inanimate technology and the realm of the living become increasingly blurred Deeper and deeper technological interventions into living organisms are possible covering the entire spectrum of life from bacteria to humans Simultaneously digitalization and artificial intelligence AI enable increasingly autonomous technologies Inanimate

technologies such as robots begin to show characteristics of life Contested issues pop up such as the dignity of life the enhancement of animals for human purposes the creation of designer babies and the granting of robot rights The book addresses the understanding of the ongoing dissolution of the life technology borders the provision of ethical guidance for navigating research and innovation responsibly and the philosophical reflection on the meaning of the current shifts It offers three specific perspectives for understanding the challenges and providing orientation First the dissolution of the boundaries between technology and life is analyzed and reflected from both sides Second the search for orientation is not restricted to ethics but also involves philosophy of technology and of nature as well as anthropology Finally instead of restricting the analysis to specific areas of life e g bacteria or animals the book presents a comprehensive look at the entire spectrum of living organisms bacteria and viruses plants animals and humans and robots as possible early forms of emerging technical life

The Argumentative Turn in Policy Analysis Sven Ove Hansson, Gertrude Hirsch Hadorn, 2016-05-26 This book describes argumentative tools and strategies that can be used to guide policy decisions under conditions of great uncertainty Contributing authors explore methods from philosophical analysis and in particular argumentation analysis showing how it can be used to systematize discussions about policy issues involving great uncertainty The first part of the work explores how to deal in a systematic way with decision making when there may be plural perspectives on the decision problem along with unknown consequences of what we do Readers will see how argumentation tools can be used for prioritizing among uncertain dangers for determining how decisions should be framed for choosing a suitable time frame for a decision and for systematically choosing among different decision options Case studies are presented in the second part of the book showing argumentation in practice in the areas of climate geoengineering water governance synthetic biology nuclear waste and financial markets In one example argumentation analysis is applied to proposals to solve the climate problem with various technological manipulations of the natural climate system such as massive dispersion of reflective aerosols into the stratosphere Even after a thorough investigation of such a proposal doubt remains as to whether all the potential risks have been identified In such discussions conventional risk analysis does not have much to contribute since it presupposes that the risks have been identified whereas the argumentative approach to uncertainty management can be used to systematize discussions

Nanotechnology Environmental Health and Safety Matthew Scott Hull, Diana Bowman, 2018-08-14 Nanotechnology Environmental Health and Safety tackles in depth and in breadth the complex and evolving issues pertaining to nanotechnology's environmental health and safety EHS The chapters are authored by leaders in their respective fields providing thorough analysis of their research areas The diverse spectrum of topics include nanotechnology EHS issues financial implications foreseeable risks including exposure dosage and hazards and the implications of occupational hygiene precautions and consumer protections The book includes real world case studies wherever practical to illustrate specific issues and scenarios encountered by stakeholders positioned on the front lines of nanotechnology enabled industries These

case studies will appeal to and resonate with laboratory scientists business leaders regulators service providers and postgraduate researchers Reviews toxicological studies and industrial initiatives supported by numerous case studies Covers new generation of nanoparticles and significantly expands on existing material from second edition Only edited volume to collect research on the regulatory and risk implications of a wide array of industrial environmental and consumer nanomaterials Responsible Research and Innovation Robert Gianni, John Pearson, Bernard Reber, 2018-07-27 Responsible Research and Innovation provides a comprehensive and impartial overview of the European Commission's Responsible Research and Innovation RRI framework including discussion of both the meaning and aims of the concept and of its practical application As a governance framework for research and innovation RRI involves four key perspectives ethical economic business legal and governance and political The book is organised into chapters covering these different dimensions The authors provide different viewpoints on these aspects in order to offer guidance from experts in the field while at the same time acknowledging the interpretative openness of the RRI frameworks

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