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# Early Engagement and New Technologies: Opening Up the Laboratory

# Early Engagement And New Technologies Opening Up

**Jane Calvert**



## **Early Engagement And New Technologies Opening Up:**

*Early engagement and new technologies: Opening up the laboratory* Neelke Doorn, Daan Schuurbijs, Ibo van de Poel, Michael E. Gorman, 2014-02-06 Despite the topic's urgency and centrality this is the first edited volume to offer a comprehensive assessment of the varying approaches to early engagement with new technologies including nanotechnology synthetic biology biotechnology and ICT Covering five main approaches to early engagement constructive technology assessment CTA value sensitive design VSD midstream modulation MM the network approach for moral evaluation and political technology assessment the book will be a pivotal text in the rapidly developing research field of ELSI which explores the ethical legal and social implications of new technologies Featuring leading scholars who discuss each early engagement approach in turn the chapters cover both theory and applications and include evaluative assessments of specific instances of early adoption of technologies Further contributions focus on theoretical issues relevant to all approaches including interdisciplinary cooperation normativity and intervention and political and public relevance The publication has added profile due to the requirement of multi billion dollar research programs in the US and Europe to engage in ELSI research alongside that of the technical development itself even in the early stages Its comprehensive scrutiny of the core factors in early engagement will ensure a readership of policy makers as well as scientists and engineers

**International Handbook on Responsible Innovation** René von Schomberg, Jonathan Hankins, 2019 The Handbook constitutes a global resource for the fast growing interdisciplinary research and policy communities addressing the challenge of driving innovation towards socially desirable outcomes This book brings together well known authors from the US Europe and Asia who develop conceptual and regional perspectives on responsible innovation as well as exploring the prospects for further implementation of responsible innovation in emerging technological practices ranging from agriculture and medicine to nanotechnology and robotics The emphasis is on the socio economic and normative dimensions of innovation including issues of social risk and sustainability

**Requirements Engineering: Foundation for Software Quality** Samuel A. Fricker, Kurt Schneider, 2015-03-13 This book constitutes the refereed proceedings of the 20th International Working Conference on Requirements Engineering Foundation for Software Quality REFSQ 2014 held in Essen Germany in April 2013 The 23 papers presented together with 1 keynote were carefully reviewed and selected from 62 submissions The REFSQ 15 conference is organized as a three day symposium The REFSQ 15 has chosen a special conference theme I heard it first at RefsQ Two conference days were devoted to presentation and discussion of scientific papers The two days connect to the conference theme with a keynote an invited talk and poster presentations There were two parallel tracks on the third day the Industry Track and the new Research Methodology Track REFSQ 2015 seeks reports of novel ideas and techniques that enhance the quality of RE's products and processes as well as reflections on current research and industrial RE practices

**Beyond Smart and Connected Governments** J. Ramon Gil-Garcia, Theresa A. Pardo, Mila Gasco-Hernandez, 2020-03-06 This book

provides a comprehensive introduction to the study of sensors and the Internet of Things IoT from a government and public policy perspective Since 2011 federal spending on IoT has been growing at a compound annual rate of ten percent New technologies such as sensors and new kinds of data such as big data are creating new ways to systematically capture data and to use it to respond to complex problems Some of these new technologies and applications have been identified and studied in recent literature in terms of their relevance to government This volume adds to the literature by presenting sound theories and concepts for understanding the opportunities and challenges governments face when seeking to improve public services and government operations through the use of IoT It also includes innovative methodologies for building understanding of the potential of a smart and connected government In addition the book offers relevant case studies and practical recommendations for the development management and evaluation of public policies and government programs

From Biofiltration to Promising Options in Gaseous Fluxes Biotreatment Gabriela Soreanu,Éric Dumont,2020-04-03 From Biofiltration to Promising Options in Gaseous Fluxes Biotreatment Recent Developments New Trends Advances and Opportunities provides an overview on the biological tools used for the treatment of the gaseous fluxes with emphasis on traditional and perspective options opening new horizons for research and implementation in practice It is known that air pollution is an emergent global issue and a priority within the international environmental programs Moreover technologies based on biological methods are significantly contributing to the sustainable development concept Thus this book provides tools for solving air pollution issues in a sustainable manner These issues can be solved at different levels e g end of pipe gaseous streams indoor outdoor air closed environments which can be approached by the different biotechniques presented in the book from classical biofiltration techniques part 1 to phytotreatment and microalgae based techniques part 2 Although all options have their particularities that make them special for certain applications a special attention is drawn to the potential of the last one which offers multiple possibilities for biomass valorization Scientists from worldwide with relevant experience in their field have been contributed to the development of this book Presents the main biotechnological aspects applied for gas purification focusing on process understanding limitations and capability in different applications Promotes a sustainable future of the biofiltration process by enhancing their performance together with the simultaneously economic and environmental impacts Implements new aspects of scientific research and development in the field **Sense, Feel, Design** Carmelo Ardito,Rosa Lanzilotti,Alessio Malizia,Marta Larusdottir,Lucio Davide Spano,José Campos,Morten Hertzum,Tilo Mentler,José Abdelnour Nocera,Lara Piccolo,Stefan Sauer,Gerrit van der Veer,2022-03-19 This book contains a series of revised papers selected from 7 workshops organized by 18th IFIP TC 13 International Conference on Human Computer Interaction INTERACT 2021 which was held in September 2021 in Bari Italy The 15 papers included in this volume were carefully reviewed and selected from 30 submissions They show the design of interactive technologies addressing one or more United Nations Sustainable Development Goals to deal with evolving contexts of use in today s and future

application domains and its influence on human centered socio technical system design and development practice share educational resources and approaches to support the process of teaching and learning HCI Engineering HCI E share educational resources and approaches to support the process of teaching and learning HCI Engineering HCI E and address and discuss geopolitical issues in Human Computer Interaction as a field of knowledge and practice Chapter Extreme Citizen Science Contributions to the Sustainable Development Goals Challenges and Opportunities for a Human Centred Design Approach is available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](https://link.springer.com)

Drones and Responsibility Ezio Di Nucci, Filippo Santoni de Sio, 2016-07-01 How does the use of military drones affect the legal political and moral responsibility of different actors involved in their deployment and design This volume offers a fresh contribution to the ethics of drone warfare by providing for the first time a systematic interdisciplinary discussion of different responsibility issues raised by military drones The book discusses four main sets of questions First from a legal point of view we analyse the ways in which the use of drones makes the attribution of criminal responsibility to individuals for war crimes more complicated and what adjustments may be required in international criminal law and in military practices to avoid responsibility gaps in warfare From a moral and political perspective the volume looks at the conditions under which the use of military drones by states is impermissible permissible or even obligatory and what the responsibilities of a state in the use of drones towards both its citizens and potential targets are From a socio technical perspective what kind of new human machine interaction might and should drones bring and which new kinds of shared agency and responsibility Finally we ask how the use of drones changes our conception of agency and responsibility The book will be of interest to scholars and students in military ethics and to those in law politics and the military involved in the design deployment and evaluation of military drones

Water Ethics Neelke Doorn, 2019-10-25 A comprehensive introduction to water ethics this book explores the common thread between debates in the allocation of water resources the human right to water and the commodification and privatisation of water services and fills the gap for alternatives to the predominantly consequentialist approach to dealing with these issues

**Designing Healthcare That Works** Mark Ackerman, Michael Prilla, Christian Stary, Thomas Herrmann, Sean Goggins, 2017-11-17 Designing Healthcare That Works A Sociotechnical Approach takes up the pragmatic messy problems of designing and implementing sociotechnical solutions which integrate organizational and technical systems for the benefit of human health The book helps practitioners apply principles of sociotechnical design in healthcare and consider the adoption of new theories of change As practitioners need new processes and tools to create a more systematic alignment between technical mechanisms and social structures in healthcare the book helps readers recognize the requirements of this alignment The systematic understanding developed within the book's case studies includes new ways of designing and adopting sociotechnical systems in healthcare For example helping practitioners examine the role of exogenous factors like CMS Systems in the U S Or more globally helping practitioners consider systems external to the

boundaries drawn around a particular healthcare IT system is one key to understand the design challenge Written by scholars in the realm of sociotechnical systems research the book is a valuable source for medical informatics professionals software designers and any healthcare providers who are interested in making changes in the design of the systems Encompasses case studies focusing on specific projects and covering an entire lifecycle of sociotechnical design in healthcare Provides an in depth view from established scholars in the realm of sociotechnical systems research and related domains Brings a systematic understanding that includes ways of designing and adopting sociotechnical systems in healthcare

*Governing Privacy in Knowledge Commons* Madelyn Rose Sanfilippo, Brett M. Frischmann, Katherine J.

Strandburg, 2021-03-25 Explores the complex relationships between privacy governance and the production and sharing of knowledge This title is also available as Open Access on Cambridge Core **HCI International 2023 Posters** Constantine

Stephanidis, Margherita Antona, Stavroula Ntoa, Gavriel Salvendy, 2023-07-08 The five volume set CCIS 1832 1836 contains the extended abstracts of the posters presented during the 25th International Conference on Human Computer Interaction HCII 2023 which was held as a hybrid event in Copenhagen Denmark in July 2023 The total of 1578 papers and 396 posters included in the 47 HCII 2023 proceedings volumes were carefully reviewed and selected from the 7472 contributions The posters presented in these five volumes are organized in topical sections as follows Part I HCI Design Theoretical Approaches Methods and Case Studies Multimodality and Novel Interaction Techniques and Devices Perception and Cognition in Interaction Ethics Transparency and Trust in HCI User Experience and Technology Acceptance Studies Part II Supporting Health Psychological Wellbeing and Fitness Design for All Accessibility and Rehabilitation Technologies Interactive Technologies for the Aging Population Part III Interacting with Data Information and Knowledge Learning and Training Technologies Interacting with Cultural Heritage and Art Part IV Social Media Design User Experiences and Content Analysis Advances in eGovernment Services eCommerce Mobile Commerce and Digital Marketing Design and Customer Behavior Designing and Developing Intelligent Green Environments Smart Product Design Part V Driving Support and Experiences in Automated Vehicles eExtended Reality Design Interaction Techniques User Experience and Novel Applications Applications of AI Technologies in HCI **Regulation and Governance of Gene Editing Technologies (CRISPR, etc.)** Alberto

Asquer, Michael Morrison, 2022-11-04 *Artificial Intelligence Safety and Security* Roman V. Yampolskiy, 2018-07-27 The history of robotics and artificial intelligence in many ways is also the history of humanity's attempts to control such technologies From the Golem of Prague to the military robots of modernity the debate continues as to what degree of independence such entities should have and how to make sure that they do not turn on us its inventors Numerous recent advancements in all aspects of research development and deployment of intelligent systems are well publicized but safety and security issues related to AI are rarely addressed This book is proposed to mitigate this fundamental problem It is comprised of chapters from leading AI Safety researchers addressing different aspects of the AI control problem as it relates

to the development of safe and secure artificial intelligence The book is the first edited volume dedicated to addressing challenges of constructing safe and secure advanced machine intelligence The chapters vary in length and technical content from broad interest opinion essays to highly formalized algorithmic approaches to specific problems All chapters are self contained and could be read in any order or skipped without a loss of comprehension The Ethics of Drone Design Dylan Cawthorne,2023-08-04 This book presents a holistic approach to the design and use of drones It argues that this powerful technology requires high levels of ethical analysis and responsibility our moral progress must keep pace with our technological progress Drone technologies support and diminish the flourishing of certain human values impact power relations between individuals and groups and add an additional element to the complex network of humans and objects in modern society The book begins by introducing four prototype drones designed and built by the author the healthcare drone the search and rescue drone the educational drone and the spiritual drone These drones have been developed using a value sensitive design approach with values such as human welfare privacy trust environmental sustainability and justice at the forefront Ethical analyses and social impacts are taken as design inputs leading to the creation of better more responsible drone designs The book then showcases additional methods used to develop the prototype drones from the fields of engineering ethics and art including ethical frameworks ethics standards capability caution and speculative design The holistic approach reveals a more subtle and nuanced view of drones than the currently polarized characterization of the good drone or the killer drone The book concludes with recommendations for drone engineers companies lawmakers and citizens on how to support ethics in drone design The Ethics of Drone Design is an essential resource for scholars advanced students engineers and designers interested in the ethics of technology *What is Scientific Knowledge?* Kevin McCain,Kostas Kampourakis,2019-06-11 What Is Scientific Knowledge is a much needed collection of introductory level chapters on the epistemology of science Renowned historians philosophers science educators and cognitive scientists have authored 19 original contributions specifically for this volume The chapters accessible for students in both philosophy and the sciences serve as helpful introductions to the primary debates surrounding scientific knowledge First year undergraduates can readily understand the variety of discussions in the volume and yet advanced students and scholars will encounter chapters rich enough to engage their many interests The variety and coverage in this volume make it the perfect choice for the primary text in courses on scientific knowledge It can also be used as a supplemental book in classes in epistemology philosophy of science and other related areas Key features an accessible and comprehensive introduction to the epistemology of science for a wide variety of students both undergraduate and graduate level and researchers written by an international team of senior researchers and the most promising junior scholars addresses several questions that students and lay people interested in science may already have including questions about how scientific knowledge is gained its nature and the challenges it faces

**A Place for Science and Technology Studies** Jane Calvert,2024-01-09 An exploration of science and technology

studies in eight different places and the possibilities that arise for observation intervention and collaboration Where does science and technology studies STS belong In *A Place for Science and Technology Studies* Jane Calvert takes readers through eight different rooms the laboratory the conference room the classroom the coffee room the art studio the bioethics building the policy room and the ivory tower investigating the possibilities and limitations of each for STS research Drawing from over a decade of work in synthetic biology Calvert explores three different orientations for STS observation intervention and collaboration to ask whether there is a place for STS which as an undisciplined field often finds itself on the periphery of traditional institutions or dependent on more generously funded STEM disciplines Using examples of failures and successes and tackling enduring concerns about the relations between social scientific researchers and their fields of study Calvert argues for an approach to STS that is collaborative yet allows for autonomy

*Advances in Technology-Assisted Rehabilitation* Andreas Kannenberg, Shane Wurdeman, Ruediger Rupp, Laurent Frossard, 2024-08-20 According to a 2005 report of the World Health Organization WHO an estimated 1.3 billion people worldwide 16% of the global population experienced significant disability This number has only been increasing due to population ageing and an increase in the prevalence of non communicable diseases Rehabilitation addresses the impact of a health condition on a person's everyday life by optimizing their function and reducing the experience of disability Rehabilitation ensures people with a health condition can remain as independent as possible and participate in education work and meaningful life roles Global demographic and health trends such as population ageing medical staffing shortages rising prevalence of non communicable diseases as well as continued consequences of conflict injury and developmental conditions are placing increasing demands on the health care systems The need for quality rehabilitation is rapidly growing yet in many parts of the world this need is largely unmet

Security and Defence: Ethical and Legal Challenges in the Face of Current Conflicts Juan Cayón Peña, 2022-03-17 This book aspires to face the challenge of analyzing with due academic rigor always in the paradigm of security and advanced sciences but without forgetting the ethical questions that our world raises every day The work is divided into two main sections the first section is focused on the cyber world with not only technical but also legal derivations given the expansion of vulnerabilities and our technological dependence The second section with a more interdisciplinary nature runs through undeniably topical issues such as territorial problems and the potential decline of the traditional States the communicational impact of information management and false news or the commitment to essential freedoms for the West This book connects advanced technologies and ethical issues and includes discussions on recent crises such as COVID 19 It also provides an interdisciplinary view on the ethical issues for security technologies

**Exploring Inductive Risk** Kevin C. Elliott, Ted Richards, 2017-06-01 Science is the most reliable means available for understanding the world around us and our place in it But since science draws conclusions based on limited empirical evidence there is always a chance that a scientific inference will be incorrect That chance known as inductive risk is endemic to science Though inductive risk has



always been present in scientific practice the role of values in responding to it has only recently gained extensive attention from philosophers scientists and policy makers Exploring Inductive Risk brings together a set of eleven concrete case studies with the goals of illustrating the pervasiveness of inductive risk assisting scientists and policymakers in responding to it and moving theoretical discussions of this phenomenon forward The case studies range over a wide variety of scientific contexts including the drug approval process high energy particle physics dual use research climate science research on gender disparities in employment clinical trials and toxicology The book includes an introductory chapter that provides a conceptual introduction to the topic and a historical overview of the argument that values have an important role to play in responding to inductive risk as well as a concluding chapter that synthesizes important themes from the book and maps out issues in need of further consideration

**Data-Driven Decision-Making for Business** Claus Grand Bang, 2024-08-22 Research shows that companies that employ data driven decision making are more productive have a higher market value and deliver higher returns for their shareholders In this book the reader will discover the history theory and practice of data driven decision making learning how organizations and individual managers alike can utilize its methods to avoid cognitive biases and improve confidence in their decisions It argues that value does not come from data but from acting on data Throughout the book the reader will examine how to convert data to value through data driven decision making as well as how to create a strong foundation for such decision making within organizations Covering topics such as strategy culture analysis and ethics the text uses a collection of diverse and up to date case studies to convey insights which can be developed into future action Simultaneously the text works to bridge the gap between data specialists and businesspeople Clear learning outcomes and chapter summaries ensure that key points are highlighted enabling lecturers to easily align the text to their curriculums Data Driven Decision Making for Business provides important reading for undergraduate and postgraduate students of business and data analytics programs as well as wider MBA classes Chapters can also be used on a standalone basis turning the book into a key reference work for students graduating into practitioners The book is supported by online resources including PowerPoint slides for each chapter

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