

1. Record Nr.	UNINA9910688413703321
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Titolo	Against reduction : designing a human future with machines / / Noelani Arista, Sasha Costanza-Chock, Vafa Ghazavi, Suzanne Kite, Cathryn Klusmeier, Jason Edward Lewis, Archer Pechawis, Jaclyn Sawyer, Gary Zhixi Zhang, and Snoweria Zhang ; introduction by Kate Darling
Pubbl/distr/stampa	Cambridge, Massachusetts : , : The MIT Press, , [2021]
ISBN	0-262-36732-7
Descrizione fisica	1 online resource
Disciplina	303.48/34
Soggetti	Artificial intelligence - Moral and ethical aspects Artificial intelligence - Social aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	"How can we restore balance to a world now run by AI and algorithms? Contributors explore the human relationship to technology from ethical, epistemological, economic, and ecological perspectives"-- Provocative, hopeful essays imagine a future that is not reduced to algorithms. What is human flourishing in an age of machine intelligence, when many claim that the world's most complex problems can be reduced to narrow technical questions? Does more computing make us more intelligent, or simply more computationally powerful? We need not always resist reduction; our ability to simplify helps us interpret complicated situations. The trick is to know when and how to do so. Against Reduction offers a collection of provocative and illuminating essays that consider different ways of recognizing and addressing the reduction in our approach to artificial intelligence, and ultimately to ourselves. Inspired by a widely read manifesto by Joi Ito that called for embracing the diversity and irreducibility of the world, these essays offer persuasive and compelling variations on resisting reduction. Among other things, the writers draw on indigenous epistemology to argue for an extended "circle of relationships" that includes the nonhuman and robotic; cast "Snow White" as a tale of AI

featuring a smart mirror; point out the *cisnormativity* of security protocol algorithms; map the interconnecting networks of so-called noncommunicable disease; and consider the limits of moral mathematics. Taken together, they show that we should push back against some of the reduction around us and do whatever is in our power to work toward broader solutions.

2. Record Nr.	UNINA9910813216203321
Titolo	Forensic science : current issues, future directions / / Douglas H. Ubelaker, editor
Pubbl/distr/stampa	Chichester, West Sussex, : Wiley-Blackwell, : American Academy of Forensic Sciences, 2012, c2013
ISBN	1-283-64447-9 1-118-37388-X 1-118-37387-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (426 p.)
Collana	THEi Wiley ebooks
Altri autori (Persone)	UbelakerDouglas H
Disciplina	363.25
Soggetti	Forensic sciences Criminal investigation
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	FORENSIC SCIENCE: Current Issues, Future Directions; Contents; List of contributors; Acknowledgements; 1 Introduction; Reference; 2 General forensics - no one else starts until we finish; 2.1 Introduction; 2.2 Medicolegal death investigation; 2.2.1 Definition of the field; 2.2.2 History of medicolegal death investigation; 2.2.3 Education, training and certification; 2.2.4 Key issues; 2.2.5 Research and the future; 2.3 Crime scene investigation; 2.3.1 Definition of the field; 2.3.2 Education, training and certification; 2.3.3 History of crime scene investigation; 2.3.4 Key issues within crime scene investigation; 2.3.5 Research and the future; 2.4 Forensic nursing; 2.4.1 Definition of the field; 2.4.2 History of forensic nursing; 2.4.3 Areas of practice; 2.4.4 Education, training and certification; 2.4.5 Key issues within forensic nursing; 2.4.6

International scope of forensic nursing; 2.4.7 Practice trends; 2.4.8 Research; References; Further reading; 3 Criminalistics: the bedrock of forensic science; 3.1 Introduction; 3.2 Managing forensic services for quality performance; 3.2.1 The forensic industry; 3.2.2 Forensic service processes: scene to court
3.2.3 Management vs. leadership3.2.4 Scientists managing scientists; 3.2.5 Metrics for success; 3.2.6 Quality is your product; 3.3 Illicit drugs; 3.3.1 Introduction; 3.3.2 Legal control of drugs; 3.3.3 Analysis of illicit drugs; 3.3.4 The SWGDRUG Approach; 3.3.5 Reporting and court testimony; 3.3.6 A sampling of current issues in drug analysis; 3.3.7 Conclusion; 3.4 Forensic DNA Analysis: a Primer; 3.4.1 Introduction; 3.4.2 Historical perspective; 3.4.3 The reality of forensic DNA Typing; 3.4.4 The analytical process; 3.4.5 Quantification of extracted DNA; 3.4.6 Amplification of STR Markers
3.4.7 Detection of amplified products: allele detection3.4.8 Interpretation of DNA Profiles; 3.4.9 Future technologies; 3.5 Fire scene investigation and laboratory analysis of fire debris; 3.5.1 Introduction; 3.5.2 Fire scene investigation: history; 3.5.3 Established through science; 3.5.4 Post-flashover burning; 3.5.5 Professional qualifications and certification of fire scene investigators; 3.5.6 Fire debris analysis: history; 3.5.7 Evolution of ILR Isolation Techniques; 3.5.8 Analysis of the extracted ILR; 3.5.9 Increasing sensitivity; 3.5.10 Identity of source 3.5.11 Professional qualifications and certification of fire debris analysts3.5.12 Standards creation; 3.5.13 Research opportunities; 3.6 Trace evidence; 3.6.1 Introduction; 3.6.2 Historical background; 3.6.3 Trace evidence in modern forensic science; 3.6.4 How does trace evidence help to solve crimes?; 3.6.5 Case histories; 3.6.6 Trace evidence analysis and the future; Acknowledgments; References; Further reading; 4 Forensic pathology - the roles of molecular diagnostics and radiology at autopsy; 4.1 Molecular testing and the forensic autopsy; 4.1.1 Cardiac diseases [5-11]
4.1.2 Hereditary thrombophilia [34-42]

Sommario/riassunto

Co-published with the American Academy of Forensic Sciences, Forensic Science presents comprehensive international discussion of key issues and future directions within the forensic sciences. Written by accomplished and respected specialists in approximately eleven distinct areas of the forensic sciences, the volume will examine central issues within each discipline, provide perspective on current debate and explore current and proposed research initiatives. It will also provide the forensically involved international community with current in-depth perspective on the key issues in th
