## Contents

Preface	ix
1	
What Al Is and What Al Isn't	
Al Basics Jaron Lanier Wants You to Stop Saying Al Rachel Leven, <i>Berkeley News</i> , September 21, 2023	3
The History of Artificial Intelligence: Complete Al Timeline Ron Karjian, <i>TechTarget</i> , August 16, 2023	12
Not Everything We Call AI Is Actually "Artificial Intelligence": Here's What You Need to Know George Siemens, <i>The Conversation</i> , December 21, 2022	21
What the History of Al Tells Us About Its Future Clive Thompson, <i>MIT Technology Review</i> , February 18, 2022	24
What Is Generative AI? Kim Martineau, <i>IBM Research</i> , April 20, 2023	32
The Secret Ingredient of ChatGPT Is Human Advice Cade Metz, <i>The New York Times,</i> September 25, 2023	38
2	
Tech with Many Uses	
Al in Medicine, Business, and the Military Artificial Intelligence and Machine Learning US Department of Energy, 2024	45 49
AI-Descartes: A Framework for Automated Scientific Discovery <i>IBM Research</i> , April 17, 2023	51
Our History U.S. Cyber Command, 2024	54
The Military's Big Bet on Artificial Intelligence Sarah Scoles, <i>Undark</i> , November 29, 2023	59
Al Will Transform the Global Economy: Let's Make Sure It Benefits Humanity Kristalina Georgieva, <i>IMF Blog</i> , January 14, 2024	68
Al Could (Literally) Preserve Our Culture Derek Robertson, <i>Politico</i> , February 8, 2024	71

3

Knowing What's Real: Controversies in Al	
Deepfakes and Hallucinations Bias in Al Is Real: But It Doesn't Have to Exist Mohar Chatterjee, <i>Politico</i> , July 14, 2023	77 83
As AI Spreads, Experts Predict the Best and Worst Changes in Digital Life by 2035  Janna Anderson and Lee Raine, <i>Pew Research Center</i> , June 21, 2023	88
When Artificial Intelligence Goes Wrong Bob Gourley, <i>OODA Loop,</i> May 28, 2023	101
ChatGPT Is Going to Change Education, Not Destroy It Will Douglas Heaven, <i>MIT Technology Review</i> , April 6, 2023	107
Deepfake Technology Can Be Weaponized to Cause Harm Nancy Mace, <i>US House of Representatives,</i> November 8, 2023	112
X Blocks Taylor Swift Searches: What to Know About the Viral Al Deepfakes Areesha Lodhi, <i>Al Jazeera</i> , January 29, 2024	114
Musk, Other Tech Experts Urge Halt to Further Al Developments Al Jazeera, March 29, 2023	118
Elon Musk Wants to Pause "Dangerous" A.I. Development: Bill Gates Disagrees—and He's Not the Only One Tom Huddleston Jr., <i>CNBC</i> , April 6, 2023	120
4	
Intellectual Property and Artistic Integrity	
Al Copyright and Legislation A New Tool Helps Artists Thwart Al—With a Middle Finger Kate Knibbs, <i>Wired</i> , October 12, 2023	127 134
Generative AI Has an Intellectual Property Problem Gil Appel, Juliana Neelbauer, and David A. Schweidel, Harvard Business Review, April 7, 2023	138
Intellectual Property Legal Issues Impacting Artificial Intelligence Edward D. Lanquist and Dominic Rota, <i>Baker Donelson</i> , April 11, 2023	144
The White House and Big Tech Companies Release Commitments on Managing Al Deepa Shivaram, NPR, July 21, 2023	150

How 2024 Presidential Candidates Are Using Al Inside Their Election Campaigns Rachel Curry, CNBC, December 17, 2023	153
Misunderstood Mechanics: How AI, TikTok, and the Liar's Dividend Might Affect the 2024 Elections Zeve Sanderson, Solomon Messing, and Joshua A. Tucker, <i>Brookings</i> , January 2, 2024	157
Fact Sheet: President Biden Issues Executive Order on Safe, Secure, and Trustworthy Artificial Intelligence  The White House, October 30, 2023	163
Effective AI Regulation Requires Understanding General-Purpose AI Aylin Caliskan and Kristian Lum, <i>Brookings</i> , January 29, 2024	169
5	
Artificial Futures	
What's Coming Next in AI 10 Top AI and Machine Learning Trends for 2024 Lev Craig, <i>TechTarget</i> , January 4, 2024	175 180
You Thought 2023 Was a Big Year for AI? Buckle Up Adam Clark Estes, <i>Vox</i> , January 4, 2024	188
What's Next for AI in 2024 Melissa Heikkilä and Will Douglas Heaven, <i>MIT Technology Review</i> , January 4, 2024	192
The World Isn't Ready for the Next Decade of Al Gideon Lichfield and Lauren Goode, <i>Wired</i> , August 16, 2023	196
Is AI Coming for Our Kids? Why the Latest Wave of Pop-Cultural Tech Anxiety Should Come as No Surprise Lisa M. Given, Jessica Balanzategui, and Sarah Polkinghorne, <i>The Conversation</i> , September 6, 2023	211
Artificial Intelligence Doesn't "Get" Memes: Here's Why That Could Save Us from the Singularity Matt Crisara, <i>Popular Mechanics</i> , January 29, 2024	214
Bibliography Websites Index	219 223 225