

BIBLIOGRAPHY

Abruzzese, Alberto, and Mario Pireddu. "Facebook come Fakebook." In *Facebook come: Le nuove relazioni virtuali*, edited by Renata Borgato, Ferruccio Capelli, and Mauro Ferraresi, 76–82. Milan: Franco Angeli, 2009.

Adkins, Lisa, and Celia Lury, eds. *Measure and Value*. Malden, MA: Wiley, 2012.

Agostinho, Daniela. "The Optical Unconscious of Big Data: Datafication of Vision and Care for Unknown Futures." *Big Data & Society* 6, no. 1 (January 2019).

Agrawal, Rakesh. "Rakesh Agrawal Speaks Out." Interview by Marianne Winslett, 2003. <http://sigmod.org/publications/interviews/pdf/D15.rakesh-final-final.pdf>.

Agrawal, Rakesh, Tomasz Imielinski, and Arun Swami. "Mining Association Rules Between Sets of Items in Large Databases." *SIGMOD Record* 22, no. 2 (June 1993): 207–216. <https://doi.org/10.1145/170036.170072>.

Algee-Hewitt, Mark, Sarah Allison, Marissa Gemma, Ryan Heuser, Franco Moretti, and Hannah Walser. "Canon/Archive: Large-Scale Dynamics in the Literary Field." *Literary Lab Pamphlet* 11 (January 2016). <https://litlab.stanford.edu/LiteraryLabPamphlet11.pdf>.

Algee-Hewitt, Mark, Ryan Heuser, and Franco Moretti. "On Paragraphs: Scale, Themes, and Narrative Form." *Literary Lab Pamphlet* 10 (October 2015). <https://litlab.stanford.edu/LiteraryLabPamphlet10.pdf>.

Alharbi, Mohammad, and Robert S. Laramée. "SoS TextVis: A Survey of Surveys on Text Visualization." *Computer Graphics & Visual Computing* (2018): 143–152.

Al-Rfou, Rami, Marc Pickett, Javier Snaider, Yun-hsuan Sung, Brian Strope, and Ray Kurzweil. "Conversational Contextual Cues: The Case of Personalization and

History for Response Ranking." arXiv.org, submitted on June 1, 2016. <https://arxiv.org/abs/1606.00372v1>.

Amoore, Louise. "Algorithmic War: Everyday Geographies of the War on Terror." *Antipode: A Radical Journal of Geography* 41 (2009): 49–69.

Amoore, Louise. "Data Derivatives: On the Emergence of a Security Risk Calculus for Our Times." *Theory, Culture & Society* 28, no. 6 (2011): 24–43.

Amoore, Louise, and Volha Piotukh. "Life Beyond Big Data: Governing with Little Analytics." *Economy and Society* 44, no. 3 (2015): 341–366.

Anderson, Ben. "Preemption, Precaution, Preparedness: Anticipatory Action and Future Geographies." *Progress in Human Geography* 34, no. 6 (2010): 777–798.

Anderson, Chris. "The End of Theory: The Data Deluge Makes the Scientific Method Obsolete." *Wired* 16 (2008). <https://www.wired.com/2008/06/pb-theory/>.

Anderson, Chris. *The Long Tail: Why the Future of Business Is Selling Less of More*. New York: Hyperion, 2006.

Anderson, Michael C. "Rethinking Interference Theory: Executive Control and the Mechanisms of Forgetting." *Journal of Memory and Language* 49 (2003): 415–445.

Angwin, Julia, Jeff Larson, Surya Mattu, and Lauren Kirchner. "Machine Bias: There's Software Used across the Country to Predict Future Criminals. And It's Biased against Blacks." *ProPublica*, May 23, 2016. <https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal-sentencing>.

Annus, Amar. "On the Beginnings and Continuities of Omen Sciences in the Ancient World." In *Divination and Interpretation of Signs in the Ancient World*, edited by Amar Annus, 1–18. Chicago: The Oriental Institute of the University of Chicago, 2010.

Anzulewicz, Henryk. "Aeternitas—Aevum—Tempus: The Concept of Time in the System of Albert the Great." In *The Medieval Concept of Time: Studies on the Scholastic Debate and Its Reception in Early Modern Philosophy*, edited by Pasquale Porro, 83–129. Leiden: Brill, 2001.

Aristotle. *Posterior Analytics*. Translated by Jonathan Barnes. Oxford: Clarendon Press, 1993.

Asher, Jeff, and Rob Arthur. "Inside the Algorithm That Tries to Predict Gun Violence in Chicago." *New York Times*, June 13, 2017.

Ashley, Kevin D. *Artificial Intelligence and Legal Analytics: New Tools for Law Practice in the Digital Age*. Cambridge: Cambridge University Press, 2017.

Assante, Ernesto. "Tutti pazzi per TikTok, il social che dà 15 secondi di celebrità." *La Repubblica*, March 2, 2020.

Assmann, Jan. *Das kulturelle Gedächtnis. Schrift, Erinnerung und politische Identität in frühen Hochkulturen*. Munich: Beck, 1992.

Assmann, Jan, and Tonio Hölscher, eds. *Kultur und Gedächtnis*. Frankfurt am Main: Suhrkamp, 1988.

Auerbach, David. "A.I. Has Grown Up and Left Home: It Matters Only That We Think, Not How We Think." *Nautilus*, December 19, 2013. <http://nautil.us/issue/8/home/ai-has-grown-up-and-left-home>.

Ausloos, Jef. "The 'Right to be Forgotten'—Worth Remembering?" *Computer Law & Security Report* 28, no. 2 (2012): 143–152.

Baltrušaitis, Jurgis. *Anamorphoses ou Thaumaturgus opticus*. Paris: Flammarion, 1984.

Barabas, Chelsea, Karthik Dinakar, Joichi Ito, Madars Virza, and Jonathan Zittrain. "Interventions over Predictions: Reframing the Ethical Debate for Actuarial Risk Assessment." *Proceedings of Machine Learning Research* 81 (2018): 1–15.

Barber, David. *Bayesian Reasoning and Machine Learning*. Cambridge: Cambridge University Press, 2012. <http://web4.cs.ucl.ac.uk/staff/D.Barber/textbook/171216.pdf>.

Barone, Francine, David Zeitlyn, and Viktor Mayer-Schönberger. "Learning from Failure: The Case of the Disappearing Web Site." *First Monday* 20, no. 5 (2015). <https://doi.org/10.5210/fm.v20i5.5852>.

Bateson, Gregory. *Steps to an Ecology of Mind*. San Francisco: Chandler, 1972.

Bayard, Pierre. *How to Talk about Books You Haven't Read*. New York: Bloomsbury, 2007.

Beck, Ulrich. *Risk Society: Towards a New Modernity*. London: Sage, 1992.

Beer, David. "Power through the Algorithm? Participatory Web Cultures and the Technological Unconscious." *New Media & Society* 11, no. 6 (2009): 985–1002.

Behrisch, M., M. Blumenschein, N. W. Kim, L. Shao, M. El-Assady, J. Fuchs, D. Seebacher, A. Diehl, U. Brandes, H. Pfister, T. Schreck, D. Weiskopf, and D.A. Keim. "Quality Metrics for Information Visualization." *Computer Graphics Forum* 37 (2018): 625–662. <https://doi.org/10.1111/cgf.13446>.

Benkler, Yochai. *The Wealth of Networks: How Social Production Transforms Markets and Freedom*. New Haven, CT: Yale University Press, 2006.

Benway, Jan Panero, and David M. Lane. "Banner Blindness: Web Searchers Often Miss 'Obvious' Links." *Itg Newsletter* 1, no. 3 (1998): 1–22. Retrieved March 13, 2019.

Berners-Lee, Tim, James Hendler, and Ora Lassila. "The Semantic Web: A New Form of Web Content That Is Meaningful to Computers Will Unleash a Revolution of New Possibilities." *Scientific American* 284 (May 2001): 1–5.

Berreby, David. "Can We Make Our Robots Less Biased Than We Are?" *New York Times*, November 22, 2020.

Binns, Reuben. "How to Be Open about Being Closed." *Limn* 6 (March 2016) <https://limn.it/articles/how-to-be-open-about-being-closed/>.

- Bissell, Tom. *Extra Lives: Why Video Games Matter*. New York: Random House, 2010.
- Bissell, Tom. "The Grammar of Fun: CliffyB and the World of the Video Game." *New Yorker*, October 27, 2008.
- Blair, Ann. "Annotating and Indexing Natural Philosophy." In *Books and the Sciences in History*, edited by Marina Frasca-Spada, and Nick Jardine, 69–89. Cambridge: Cambridge University Press, 2000.
- Blanchette, Jean-François, and Deborah G. Johnson. "Data Retention and the Pan-optic Society: The Social Benefits of Forgetfulness." *Information Society* 18 (2002): 33–45.
- Blumenberg, Hans. "Nachahmung der Natur: Zur Vorgeschichte der Idee des schöpferischen Menschen." *Studium Generale* 10 (1957): 266–283.
- Bode, Katherine. *Reading by Numbers: Recalibrating the Literary Field*. London: Anthem Press, 2012.
- Boellstorff, Tom. "Making Big Data, in Theory." *First Monday* 18, no. 10 (2013).
- Bolzoni, Lina. *La stanza della memoria: Modelli letterari e iconografici nell'età della stampa*. Torino: Einaudi, 1995.
- Borges, Jorge Luis. "The Analytical Language of John Wilkins." In *Other Inquisitions 1937–1952*, translated by Ruth L. C. Simms, 101–105. Austin: University of Texas Press, 1993.
- Borges, Jorge Luis. "Funes el memorioso." In *Ficciones*. Buenos Aires: Editorial Sur, 1944.
- Borgo, Stefano. "Ontological Challenges to Cohabitation with Self-Taught Robots." *Semantic Web* 11, no. 3 (2020): 161–167.
- Bornstein, Aaron M. "Is Artificial Intelligence Permanently Inscrutable? Despite New Biology-Like Tools, Some Insist Interpretation Is Impossible." *Nautilus*, September 1, 2016. <http://nautil.us/issue/40/learning/is-artificial-intelligence-permanently-inscrutable>.
- Bostrom, Nick. *Superintelligence: Paths, Dangers, Strategies*. Oxford: Oxford University Press, 2014.
- Bottéro, Jean. "Sintomi, segni, scritture nell'antica Mesopotamia." In *Divination et Rationalité*, edited by J. P. Vernant, L. Vandermeersch, J. Gernet, J. Bottéro, R. Crahay, L. Brisson, J. Carlier, D. Grodzynski, and A. Retel-Laurentin, 73–214. Paris: Seuil, 1974.
- Bowker Geoffrey C., Susan Leigh Star. *Sorting Things Out. Classification and Its Consequences*. Cambridge, MA: MIT Press, 1999.

boyd, danah, and Kate Crawford. "Critical Questions for Big Data." *Information, Communication and Society* 15, no. 5 (2012): 662–679. <https://doi.org/10.1080/1369118x.2012.678878>.

Braidotti, Rosi. *The Posthuman*. Cambridge: Polity, 2013.

Breiman, Leo. "Statistical Modeling: The Two Cultures." *Statistical Science* 16, no. 3 (2001): 199–231.

Bresnick, Ethan. *Intensified Play: Cinematic Study of TikTok Mobile App*. University of Southern California, 2019. Accessed March 2, 2020. https://www.academia.edu/40213511/Intensified_Play_Cinematic_study_of_TikTok_mobile_app.

Brisson, Luc. "Del buon uso della sregolatezza (Grecia)." In *Divination et Rationalité*, edited by J. P. Vernant, L. Vandermeersch, J. Gernet, J. Bottéro, R. Crahay, L. Brisson, J. Carlier, D. Grodzynski, and A. Retel-Laurentin, 239–272. Paris: Seuil, 1974.

Brubaker, Rogers. "Digital Hyperconnectivity and the Self." *Theory and Society* 49 (2020): 771–801.

Brunton, Finn, and Helen Nissenbaum. *Obfuscation: A User's Guide for Privacy and Protest*. Cambridge, MA: MIT Press, 2015.

Buolamwini, Joy, and Timnit Gebru. "Intersectional Accuracy Disparities in Commercial Gender Classification." *Proceedings of Machine Learning Research* 81 (2018): 1–15.

Burrell, Jenna. "How the Machine 'Thinks': Understanding Opacity in Machine Learning Algorithms." *Big Data & Society* 1 (2016): 1–12.

Callon, Michel, ed. *The Laws of the Markets*. Oxford, Blackwell, 1998.

Callon, Michel. "The Role of Hybrid Communities and Socio-Technical Arrangements in the Participatory Design." *Journal of the Centre for Information Studies* 5, no. 3 (2004): 3–10.

Canale, D. and G. Tuzet *La giustificazione della decisione giudiziale*. Torino: Giappichelli, 2020.

Card, Stuart K., Jock D. Mackinlay, and Ben Shneiderman. *Readings in Information Visualization, Using Vision to Think*. San Francisco: Morgan Kaufmann, 1999.

Cardon, Dominique. *À quoi rêvent les algorithmes*. Paris: Seuil, 2015.

Carr, Nicholas. *The Big Switch: Rewiring the World, From Edison To Google*. New York: Norton, 2008.

Carusi, Annamaria. "Making the Visual Visible in Philosophy of Science." *Spontaneous Generations* 6, no. 1 (2012): 106–114.

Cecire, Natalia. "Ways of Not Reading Gertrude Stein." *ELH: English Literary History* 82, no. 1 (2015): 281–312.

Cevolini, Alberto. *De arte excerpenti: Imparare a dimenticare nella modernità*. Firenze: Olschki, 2006.

Cevolini, Alberto. "Der Leser im Gelesenen: Beobachtung dritter Ordnung im Umgang mit Gelehrtenmaschinen." Paper presented at the conference Die Veränderung der Realitätswahrnehmung durch die digitalen Medien, Universität der Bundeswehr München, September 1–2, 2016.

Cevolini, Alberto, ed. *Forgetting Machines: Knowledge Management Evolution in Early Modern Europe*. Leiden: Brill, 2016.

Cevolini, Alberto, and Gérald Bronner, eds. "What Is New in Fake News? Public Opinion and Second-Order Observation in a Hyperconnected Society." Special issue of *Sociologia e Politiche Sociali* 21, no. 3 (2018).

Chabert, Jean-Luc, ed. *A History of Algorithms. From the Pebble to the Microchip*. Berlin-Heidelberg: Springer, 1999.

Chantraine, P. "Les verbes grecs signifiant 'lire.'" In *Mélanges Henri Grégoire, Amuaires de l'Institute de Philologie et d'Histoire Orientales et Slaves* 2, 115–126. Bruxelles: Secrétariat des Editions de l'Institut, 1950.

Chen, Brian X. "Are Targeted Ads Stalking You? Here's How to Make Them Stop." *New York Times*, Aug 15, 2018.

Cheney-Lippold, John. "A New Algorithmic Identity: Soft Biopolitics and the Modulation of Control." *Theory, Culture & Society* 28, no. 6 (2011): 164–181.

Chun, Wendy Hui Kyong. *Programmed Visions: Software and Memory*. Cambridge, MA: MIT Press, 2011.

Ciaccia Paolo, Davide Martinenghi, and Riccardo Torlone. "Foundations of Context-Aware Preference Propagation." *Journal of the ACM* 67, no. 1 (January 2020): 1–43.

Cimiano, Philipp, Sebastian Rudolph, and Helena Hartfiel. "Computing Intensional Answers to Questions—An Inductive Logic Programming Approach." *Data & Knowledge Engineering* 69, no. 3 (2010): 261–278.

Clark, Andy. *Surfing Uncertainty: Prediction, Action, and the Embodied Mind*. New York: Oxford University Press, 2016.

Clement, Tanya. "The Story of One: Narrative and Composition in Gertrude Stein's *The Making of Americans*." *Texas Studies in Literature and Language* 54, no. 3 (2012): 426–448.

Collins, Harry. *Artificial Experts: Social Knowledge and Intelligent Machines*. Cambridge, MA: MIT Press, 1990.

Contzen, Eva von. "Die Affordanzen der Liste." [The affordances of the list.] *Zeitschrift für Literaturwissenschaft und Linguistik* 3 (2017): 317–326.

Cooley, Alexander, and Jack Snyder, eds. *Ranking the World: Grading States as a Tool of Global Governance*. Cambridge: Cambridge University Press, 2016.

Cooper, David, Christopher Donaldson, and Patricia Murrieta-Flores. *Literary Mapping in the Digital Age*. Abingdon: Routledge, 2016.

Cowls, Josh, and Ralph Schroeder. "Causation, Correlation, and Big Data in Social Science Research." *Policy & Internet* 7 (2015): 447–472.

Crawford, Kate. "Artificial Intelligence's White Guy Problem." *New York Times*, June 25, 2016.

Crawford, Kate, Kate Miltner, and Mary L. Gray. "Critiquing Big Data: Politics, Ethics, Epistemology." *International Journal of Communication* 8 (2014): 1663–1672.

Custers, Bart. "Click Here to Consent Forever: Expiry Dates for Informed Consent." *Big Data & Society* 2 (2016): 1–6.

Daston, Lorraine. *Classical Probability in the Enlightenment*. Princeton: Princeton University Press, 1988.

Davis, Lauren. "At Last, a Graph That Explains Scifi TV after Star Trek." *Gizmodo*, August 28, 2009. <https://io9.gizmodo.com/at-last-a-graph-that-explains-scifi-tv-after-star-trek-5347631>.

Davis, Martin. *Computability and Unsolvability*. New York: McGraw-Hill, 1958.

Davis, Phil. "What Is the Difference between Personalization and Customization?" Towerdata. Accessed June 19, 2019. <https://www.towerdata.com/blog/what-is-the-difference-between-personalization-and-customization>.

Davis, Richard. "Moving Targets: Web Preservation and Reference Management." Presentation at Innovations in Reference Management workshop, January 2010. <http://www.ariadne.ac.uk/issue/62/davis/>.

De Goede, Marie, and Samuel Randalls. "Precaution, Preemption: Arts and Technologies of the Actionable Future." *Environment and Planning D: Society and Space* 27 (2009): 859–878.

De Mauro, Tullio. *Linguistica elementare*. Rome: Laterza, 1998.

Derrida, Jacques. *Ulysse gramophone, Deux mots pour Joyce*. Paris: Galilée, 1987.

Desrosières, Alain. "Mapping the Social World: From Aggregates to Individuals." *Limn* 2 (2012). <https://limn.it/articles/mapping-the-social-world-from-aggregates-to-individuals/>.

Diakopoulos, Nicholas. "Algorithmic Accountability." *Digital Journalism* 3, no. 3 (2014): 398–415. <https://doi.org/10.1080/21670811.2014.976411>.

Dill, Kevin. "What Is Game AI?" In *Game AI Pro: Collected Wisdom of Game AI Professionals*, edited by Steve Rabin, 3–9. Boca Raton: CRC Press, 2013.

- DiNucci, Darcy. "Fragmented Future." *Print*. 53, no. 4 (1999): 221–222.
- Doležalová, Lucie. "Ad Hoc Lists of Bernard Itier (1163–1225), Librarian of St. Martial de Limoges." In *The Charm of a List: From the Sumerians to Computerised Data Processing*, edited by Lucie Doležalová, 80–99. Newcastle upon Tyne: Cambridge Scholars Publishing, 2009.
- Domingos, Pedro. "A Few Useful Things to Know about Machine Learning." *Communications of the ACM* 55, no. 10 (2012): 78–87.
- Domingos, Pedro. *The Master Algorithm: How the Quest for the Ultimate Learning Machine Will Remake Our World*. New York: Basic Books, 2015.
- Domingos, Pedro. "The Role of Occam's Razor in Knowledge Discovery." *Data Mining and Knowledge Discovery* 3, no. 4 (1999): 409–425. <https://doi.org/10.1023/A:1009868929893>.
- Doshi-Velez, Finale, Mason Kortz, Ryan Budish, Chris Bavitz, Sam Gershman, David O'Brien, Kate Scott, Stuart Schieber, James Waldo, David Weinberger, and Alexandra Wood. "Accountability of AI Under the Law: The Role of Explanation." arXiv.org. Submitted November 3, 2017. arXiv:1711.01134. <https://arxiv.org/abs/1711.01134>.
- Douglas, J. Yellowlees. *The End of Books—Or Books without End?* Ann Arbor: University of Michigan Press, 2001.
- Dreyfus, Hubert. *What Computers Can't Do*. Cambridge, MA: MIT Press, 1972.
- Drucker, Johanna. *Graphesis: Visual Forms of Knowledge Production*. Cambridge, MA: Harvard University Press, 2014.
- Drucker, Johanna. "Humanities Approaches to Graphical Display." *Digital Humanities Quarterly* 5, no. 1 (2011).
- Drucker, Johanna. "Graphical Approaches to the Digital Humanities." In *A New Companion to Digital Humanities*, ed. Susan Schreibman, Raymond George Siemens, and John Unsworth, 238–250. Chichester: Wiley, 2016.
- Duhigg, Charles. "How Companies Learn Our Secrets." *New York Times Magazine*, February 19, 2012.
- Durt, Christoph. "Why Explainability Is Not Interpretability: Machine Learning and Its Relation to the World." Unpublished manuscript, 2020.
- Eco, Umberto. "An Ars Oblivionalis? Forget it!" *Kos* 30 (1987): 40–53.
- Eco, Umberto. "Ci sono delle cose che non si possono dire: Di un realismo negativo." *Alfabeta* 2, no. 17 (2012): 22–25.
- Eco, Umberto. *Dall'albero al labirinto: Studi storici sul segno e l'interpretazione*. Milan: Bompiani, 2007.
- Eco, Umberto. *I limiti dell'interpretazione*. Milan: Bompiani, 1990.

Eco, Umberto. *The Open Work*. Translated by Anna Cancogni. Cambridge, MA: Harvard University Press, 1989.

Eco, Umberto. *Opera aperta*. Milan: Bompiani, 1962.

Eco, Umberto. *Trattato di semiotica generale*. Milan: Bompiani, 1975.

Eco, Umberto. *Vertigine della lista*. Milan: Bompiani, 2009.

Eco, Umberto, and Paolo Fabbri. *Prima proposta per un modello di ricerca interdisciplinare sul rapporto televisione/pubblico*. Mimeo: Perugia, 1965.

Eco, Umberto, and Paolo Fabbri. "Progetto di ricerca sull'utilizzazione dell'informazione ambientale." *Problemi dell'informazione* 4 (1978): 555–597.

Elting, Linda S., James M. Walker, Charles G. Martin, Scott B. Cantor, and Edward B. Rubenstein. "Influence of Data Display Formats on Decisions to Stop Clinical Trials." *British Medical Journal* 318 (1999): 1527–1531.

Erdelyi, Matthew Hugh. *The Recovery of Unconscious Memories: Hypermnnesia and Reminiscence*. Chicago: University of Chicago Press, 1996.

Espeland, Wendy Nelson, and Michael Sauders. "Rankings and Reactivity. How Public Measures Recreate Social Worlds." *American Journal of Sociology* 113, no. 1 (July 2007): 1–40.

Esposito, Elena. "Algorithmische Kontingenz: Der Umgang mit Unsicherheit im Web." In *Die Ordnung des Kontingenten: Beiträge zur zahlenmäßigen Selbstbeschreibung der modernen Gesellschaft*, edited by Alberto Cevolini, 233–249. Wiesbaden: Springer VS, 2014.

Esposito, Elena. "Artificial Communication? The Production of Contingency by Algorithms." *Zeitschrift für Soziologie* 46, no. 4 (2017): 249–265.

Esposito, Elena. *Die Fiktion der wahrscheinlichen Realität*. Frankfurt am Main: Suhrkamp, 2007.

Esposito, Elena. "Digital Prophecies and Web Intelligence." In *Privacy, Due Process and the Computational Turn: The Philosophy of Law Meets the Philosophy of Technology*, edited by Mireille Hildebrandt and Katja De Vries, 121–142. New York: Routledge, 2013.

Esposito, Elena. "Illusion und Virtualität: Kommunikative Veränderung der Fiktion." In *Soziologie und künstliche Intelligenz*, ed. Werner Rammert, 187–216. Frankfurt am Main: Campus, 1995.

Esposito, Elena. "Interaktion, Interaktivität und die Personalisierung der Massenmedien." *Soziale Systeme* 1, no. 2 (1995): 225–260.

Esposito, Elena. "Kontingenzerfahrung und Kontingenzbewusstsein in systemtheoretischer Perspektive." In *Politik und Kontingenz*, edited by Katrin Toens and Ulrich Willems, 39–48. Wiesbaden: VS Springer, 2012.

Esposito, Elena. "Limits of Interpretation, Closure of Communication: Umberto Eco and Niklas Luhmann Observing Texts." In *Luhmann Observed: Radical Theoretical Encounters*, edited by Anders la Cour and Andreas Philippopoloulos-Mihalopoulos, 171–184. London: Palgrave Macmillan, 2013.

Esposito, Elena. "Risiko und Computer: Das Problem der Kontrolle des Mangels der Kontrolle." In *Riskante Strategien: Beiträge zur Soziologie des Risikos*, edited by Toru Hijikata and Armin Nassehi, 93–108. Opladen: Westdeutscher Verlag, 1997.

Esposito, Elena. *Soziales Vergessen: Formen und Medien des Gedächtnisses der Gesellschaft*. Frankfurt am Main: Suhrkamp, 2002.

Esposito, Elena. "The Structures Of Uncertainty: Performativity and Unpredictability in Economic Operations." *Economy and Society* 42 (2013): 102–129.

Esposito, Elena, and David Stark. "Debate on Observation Theory." *Sociologica* 2 (2013). <https://doi.org/10.2383/74855>.

Esposito, Elena, and David Stark. "What's Observed in a Rating? Rankings as Orientation in the Face of Uncertainty." *Theory, Culture & Society* 36, no. 4 (2019): 3–26. <https://doi.org/10.1177/0263276419826276>.

Etzioni, Oren. "Deep Learning Isn't a Dangerous Magic Genie: It's Just Math." *Wired*, June 15, 2016.

Etzioni, Oren, Michele Banko, and Michael J. Cafarella. "Machine Reading." *American Association for Artificial Intelligence*, 2006. <https://www.aaai.org/Papers/AAAI/2006/AAAI06-239.pdf>.

Eugenides, Jeffrey. *The Virgin Suicides*. New York: Farrar, Straus and Giroux, 1993.

Facebook, "Community Standards Enforcement Report." Accessed January 22, 2021. <https://transparency.facebook.com/community-standards-enforcement#fake-accounts>.

Ferrara, Emilio, Onur Varol, Clayton Davis, Filippo Menczer, and Alessandro Flammini. "The Rise of Social Bots." *Communications of the ACM* 59, no. 7 (2016): 96–104.

Ferreira de Oliveira, Maria Christina, and Haim Levkowitz. "From Visual Data Exploration to Visual Data Mining: A Survey." *IEEE Transactions on Visualization and Computer Graphics* 9, no. 3 (2003): 378–394. <https://doi.org/ieeecomputersociety.org/10.1109/TVCG.2003.1207445>.

Fiske, John. *Introduction to Communication Studies*. London: Routledge, 1990.

Floridi, Luciano. *Information: A Very Short Introduction*. Oxford: Oxford University Press, 2010.

Floridi, Luciano. "L'ultima legge della robotica." *La Repubblica Robinson*, February 12 (2017): 5–7.

Floridi, Luciano, and Jeff W. Sanders. "On the Morality of Artificial Agents." *Minds and Machines* 14 (2004): 349–379.

- Foer, Joshua. *Moonwalking with Einstein*. London: Penguin, 2011.
- Formilan, Giovanni, and David Stark. "Testing the Creative Identity: Personas as Probes in Underground Electronic Music." Warwick: Unpublished manuscript, 2018.
- Foucault, Michel. *Les mots et les choses*. Paris: Gallimard, 1966.
- Friendly, Michael. "A Brief History of Data Visualization." In *Handbook of Computational Statistics: Data Visualization*, edited by Chun-houh Chen, Wolfgang Karl Härdle, and Antony Unwin, 15–56. Heidelberg: Springer, 2006.
- Frosh, Paul. "The Gestural Image: The Selfie, Photography Theory, and Kinesthetic Sociability." *International Journal of Communication* 9 (2015): 1607–1628.
- Fuchs, Peter. "Adressabilität als Grundbegriff der soziologischen Systemtheorie." *Soziale Systeme* 3, no. 1 (1997): 57–79.
- Galloway, Alexander. "Are Some Things Unrepresentable?" *Theory, Culture & Society* 28, no. 7–8 (2011): 85–102.
- Gantz, John, and Reinsel, David. "The Digital Universe Decade—Are You Ready?" IDC Analyze the Future, May 2010. <https://ifap.ru/pr/2010/n100507a.pdf>.
- Garfinkel, Harold. *Studies in Ethnomethodology*. Englewood Cliffs, NJ: Prentice Hall, 1967.
- Gerlitz, Carolin, and Anne Helmond. "The Like Economy: Social Buttons and the Data-Intensive Web." *New Media & Society* 15, no. 8 (2013): 1348–1365.
- Gillespie, Tarleton. "Algorithms, Clickworkers, and the Befuddled Fury around Facebook Trends." NiemanLab.org, May 19, 2016. <https://www.niemanlab.org/2016/05/algorithms-clickworkers-and-the-befuddled-fury-around-facebook-trends/>.
- Gillespie, Tarleton. "The Relevance of Algorithms." In *Media Technologies*, edited by Tarleton Gillespie, Pablo J. Boczkowski, and Kirsten A. Foot, 167–194. Cambridge, MA: MIT Press, 2014.
- Gillmor, Dan. *We the Media: Grassroots Journalism by the People, for the People*. Sebastopol: O'Reilly, 2004.
- Gilpin, Leilani H., David Bau, Ben Z. Yuan, Ayesha Bajwa, Michael Specter, and Lalana Kagal. "Explaining Explanations: An Overview of Interpretability of Machine Learning." arXiv.org, submitted May 31, 2018. <https://arxiv.org/abs/1806.00069>.
- Ginsberg, Jeremy, Matthew H. Mohebbi, Rajan S. Patel, Lynnette Brammer, Mark S. Smolinski, and Larry Brilliant. "Detecting Influenza Epidemics Using Search Engine Query Data." *Nature* 457 (2009): 1012–1014. <http://dx.doi.org/10.1038/nature07634>.
- Gitelman, Lisa, ed. *"Raw Data" Is an Oxymoron*. Cambridge, MA: MIT Press, 2013.
- Gitelman, Lisa, and Virginia Jackson. Introduction to *"Raw Data" Is an Oxymoron*, edited by Lisa Gitelman. Cambridge, MA: MIT Press, 2013.

- Goffman, Erving. *The Presentation of Self in Everyday Life*. New York: Doubleday, 1959.
- Golder, Scott. A., and Michael W. Macy. "Digital Footprints: Opportunities and Challenges for Online Social Research." *Annual Review of Sociology* 40 (2014):129–52.
- Goodfellow, Ian, Yoshua Bengio, and Aaron Courville. *Deep Learning*. Cambridge, MA: MIT Press, 2016.
- Goody, Jack. *The Domestication of the Savage Mind*. Cambridge: Cambridge University Press, 1977.
- Granka, Laura A. "The Politics of Search: A Decade Retrospective." *Information Society* 26 (2010): 364–374.
- Grimmelmann, James. "The Google Dilemma." *New York Law School Law Review* 53 (2009): 939–950.
- Grossman, Lev. "How Computers Know What We Want—Before We Do." *Time*, May 27, 2010.
- Gumbrecht, Hans Ulrich, and K. Ludwig Pfeiffer, eds. *Materialität der Kommunikation*. Frankfurt am Main: Suhrkamp, 1988.
- Habermas, Jürgen. *Strukturwandel der Öffentlichkeit*. Neuwied: Luchterhand, 1962.
- Hacking, Ian. *The Emergence of Probability*. Cambridge: Cambridge University Press, 1975.
- Halbwachs, Maurice. *Les cadres sociaux de la mémoire*. Paris: Presses Universitaires de France, 1952.
- Halevy, Aalon, Peter Norvig, and Fernando Pereira. "The Unreasonable Effectiveness of Data." *IEEE Intelligent Systems* 24, no. 2 (2009): 8–12.
- Hamburger, Ellis. "Building the Star Trek Computer: How Google's Knowledge Graph Is Changing Search." *The Verge*, June 8, 2012. <https://www.theverge.com/2012/6/8/3071190/google-knowledge-graph-star-trek-computer-john-giannandrea-interview>.
- Hammond, Kristian. *Practical Artificial Intelligence for Dummies*. Hoboken, NJ: Wiley, 2015.
- Hand David J. "Data Mining: Statistics and More?" *American Statistician* 52, (1998): 112–118.
- Hand David J. "Why Data Mining Is More Than Statistics Writ Large." *Bulletin of the International Statistical Institute, 52nd Session* 1 (1999): 433–436.
- Hand, Martin. *Ubiquitous Photography*. Cambridge: Polity, 2012.
- Harcourt, Bernard E. *Against Prediction. Profiling, Policing, and Punishing in an Actuarial Age*. Chicago: University of Chicago Press, 2007.

Hardy, Quentin. "Artificial Intelligence Software Is Booming: But Why Now?" *New York Times*, September 19, 2016.

Haslhofer, Bernhard, Antoine Isaac, Rainer Simon. "Knowledge Graphs in the Libraries and Digital Humanities Domain." In *Encyclopedia of Big Data Technologies*, edited by S. Sakr and A. Zomaya. Cham: Springer, 2018.

Havelock, Eric Alfred. *The Greek Concept of Justice*. Cambridge, MA: Harvard University Press, 1978.

Havelock, Eric Alfred. *The Muse Learns to Write: Reflections on Orality and Literacy from Antiquity to the Present*. New Haven, CT: Yale University Press, 1986.

Havelock, Eric Alfred. *Origins of Western Literacy*. Toronto: Ontario Institute for Studies in Education, 1976.

Havelock, Eric Alfred. *Preface to Plato*. Cambridge, MA: Harvard University Press, 1963.

Hawalah, Ahmed, and Maria Fasli. "Utilizing Contextual Ontological User Profiles for Personalized Recommendations." *Expert Systems with Applications* 41, no. 10 (2014): 4777–4797.

Hayles, N. Katherine. *How We Became Posthuman: Virtual Bodies in Cybernetics, Literature, and Informatics*. Chicago: University of Chicago Press, 1999.

Hayles, N. Katherine. "How We Read: Close, Hyper, Machine." *ADE Bulletin* 150 (2010): 62–79.

Hayles, N. Katherine. *How We Think. Digital Media and Contemporary Technogenesis*. Chicago: University of Chicago Press, 2012.

Hayles, N. Katherine. "How We Think: Transforming Power and Digital Technologies." In *Understanding Digital Humanities*, edited by David M. Berry, 42–66. London: Palgrave Macmillan, 2012.

Hayles, N. Katherine. *My Mother Was a Computer: Digital Subjects and Literary Texts*. Chicago: University of Chicago Press, 2005.

Hearn, Alison, and Stephanie Schoenhoff. "From Celebrity to Influencer." In *A Companion to Celebrity*, edited by P. David Marshall and Sean Redmond, 194–212. Chichester: John Wiley & Sons, 2016.

Hempel, Carl G. "The Theoretician's Dilemma." In *Concepts, Theories, and the Mind-Body Problem*, edited by Herbert Feigl, Michael Scriven, and Grover Maxwell, 37–98. Minneapolis: University of Minnesota Press, 1958.

Hempel, Carl G., "Aspects of Scientific Explanation." In Carl G. Hempel, *Aspects of Scientific Explanation and the Others Essays in the Philosophy of Science*, 331–496. New York: Free Press, 1965.

Herrman, John. "How TikTok Is Rewriting the World." *New York Times*, March 10, 2019.

Hey, T., S. Tansley, and Kritin Tolle, eds. *The Fourth Paradigm: Data-Intensive Scientific Discovery*. Redmond: Microsoft Research, 2009.

Hildebrandt, Mireille. *Smart Technologies and the End(s) of Law*. Cheltenham: Elgar, 2015.

Hitchcock, Christopher, and Elliott Sober. "Prediction versus Accommodation and the Risk of Overfitting." *British Journal for the Philosophy of Science* 55, no. 1 (2004): 1–34.

Hofman, Jake M., Amit Sharma, and Dunkin J. Watts, D. J. "Prediction and Explanation in Social Systems." *Science* 355, no. 6324 (2017): 486–488. <https://doi.org/10.1126/science.aal3856>.

Hofstadter, Douglas R. *Gödel, Escher, Bach: An Eternal Golden Braid*. New York: Basic Books, 1979.

Höller, Jan, Vlasios Tsiatis, Catherine Mulligan, Stamatis Karnouskos, Stefan Avesand, and David Boyle. *From Machine-to-Machine to the Internet of Things: Introduction to a New Age of Intelligence*. Amsterdam: Elsevier, 2014.

Hornby, Nick. *High Fidelity*. London: Indigo, 1995.

Howard, Ayanna. *Sex, Race, and Robots: How to Be Human in the Age of AI*. Audible Originals, 2019.

Huff, Darrell. *How to Lie with Statistics*. New York: Norton, 1954.

Hughes, George Edward, and Maxwell John Cresswell. *An Introduction to Modal Logic*. London: Methuen, 1968.

Hulbert, Justin Conor, and Michael C. Anderson. "The Role of Inhibition in Learning." In *Human Learning*, edited by Aaron S. Benjamin, J. Steven de Belle, Bruce Etnyre, and Thad A. Polk, 7–20. New York: Elsevier, 2008.

Hunger, Hermann, and Alfonso Archi. "Vicino Oriente: Liste lessicali e tassonomie." Entry in *Enciclopedia Treccani*. Rome, 2001. http://www.treccani.it/enciclopedia/vicino-oriente-antico-liste-lessicali-e-tassonomie_%28Storia-della-Scienza%29/.

Hunt, Priscillia, Jessica Saunders, and John S. Hollywood. *Evaluation of the Shreveport Predictive Policing Experiment*. Santa Monica, CA: Rand, 2014. https://www.rand.org/pubs/research_reports/RR531.html.

Hutchins, Edward. *Cognition in the Wild*. Cambridge, MA: MIT Press, 1995.

Imperva. *The Imperva Global Bot Traffic Report*. 2019. <https://www.imperva.com/resources/resource-library/reports/the-imperva-global-bot-traffic-report/>.

Jänicke, Stefan. "Valuable Research for Visualization and Digital Humanities: A Balancing Act." Paper presented at the workshop Visualization for the Digital

Humanities, IEEE VIS. Baltimore, Maryland October 23–28, 2016. <https://www.informatik.uni-leipzig.de/~stjaenicke/balancing.pdf>.

Jänicke, Stefan, Greta Franzini, Muhammad Faisal Cheema, and Gerik Scheuermann. "On Close and Distant Reading in Digital Humanities: A Survey and Future Challenges." In *Eurographics Conference on Visualization—State of the Art Report (EuroVis)*, edited by R. Borgo and F. Ganovelli. Aire-la-Ville: Eurographics Association, 2015.

Jessop, Martyn. "Digital Visualization as a Scholarly Activity." *Literary and Linguistic Computing* 23, no. 3 (2008): 281–293.

Jones, Meg Leta. "Forgetting Made (Too) Easy." *Communications of the ACM* 34 (June 2015).

Jones, Meg Leta. "You Are What Google Says You Are: The Right to Be Forgotten and Information Stewardship." *International Review of Information Ethics* 17, no. 7 (2012): 21–30.

Jouvenal, Justin. "Police Are Using Software to Predict Crime. Is It a 'Holy Grail' or Biased against Minorities?" *Washington Post*, November 17, 2016.

Joyce, Gemma. "Five Examples of Creepy Marketing: When Personalization Goes Too Far." *Brandwatch Online Trends*, January 5, 2017. <https://www.brandwatch.com/blog/react-creepy-marketing-personalisation-goes-far/>.

Jurgenson, Nathan. *The Social Photo. On Photography and Social Media*. London: Verso, 2019.

Kanatova, Maria, Alexandra Milyakina, Tatyana Pilipovec, Artjom Shelya, Oleg Sobchuk, and Peeter Tinitis. "Broken Time, Continued Evolution: Anachronies in Contemporary Films." *Literary Lab Pamphlet* 14 (2017). <https://litlab.stanford.edu/LiteraryLabPamphlet14.pdf>.

Karim, Awudu, Zhou Shangbo. "X-TREPAN: An Extended Trepan for Comprehensibility and Classification Accuracy in Artificial Neural Networks." *International Journal of Artificial Intelligence & Applications* 6, no. 5 (2015): 69–86.

Karpik, Lucien. "La Guide rouge Michelin." *Sociologie du Travail* 42, no. 3 (2000): 369–389.

Karpik, Lucien. *L'économie des singularités*. Paris: Gallimard, 2007.

Kath, Roxana, Gary S. Schaal, and Sebastian Dumm. "New Visual Hermeneutics." *Zeitschrift für Germanistische Linguistik* 43, no. 1 (2015): 27–51.

Katsma, Holst. "Loudness in the Novel." *Literary Lab Pamphlet* 7 (2014). Accessed February 12, 2020. <https://litlab.stanford.edu/LiteraryLabPamphlet7.pdf>.

Keightley, Emily, and Michael Pickering. "Technologies of Memory: Practices of Remembering in Analogue and Digital Photography." *New Media & Society* 16, no. 4 (2014): 576–593.

Keim, Daniel A., and Mihael Ankerst. "Visual Data-Mining Techniques." In *The Visualization Handbook*, edited by Charles D. Hansen and Chris R. Johnson, 813–826. Cambridge, MA: Academic Press, 2004.

Kelly, Kevin. "On Chris Anderson's the End of Theory." *Edge*, 2008. http://edge.org/discourse/the_end_of_theory.html.

Kelly, Tara. "Erik Kessels, Photographer, Prints Out 24 Hours Worth of Flickr Photos." *Huffington Post*, November 14, 2011. https://www.huffpost.com/entry/erik-kessels-photographer_n_1092989.

Kember, Sarah. "Ubiquitous Photography." *Philosophy of Photography* 3, no. 2 (2012): 331–348.

Kerr, Ian, and Jessica Earle. "Prediction, Preemption, Presumption. How Big Data Threatens Big Picture Privacy." *Stanford Law Review* 66, no. 65 (2013): 65–72. https://review.law.stanford.edu/wp-content/uploads/sites/3/2016/08/66_StanLRevOnline_65_KerrEarle.pdf.

Kirschenbaum, Matthew. "The Remaking of Reading: Data Mining and Digital Humanities." *NGDM '07*, National Science Foundation, Baltimore, October 12, 2007. <http://www.csee.umbc.edu/~hillol/NGDM07/abstracts/talks/MKirschenbaum.pdf>.

Kirschenbaum, Matthew. "The .txtual Condition: Digital Humanities, Born-Digital Archives, and the Future Literary." *Digital Humanities Quarterly* 7, no. 1 (2013). <http://www.digitalhumanities.org/dhq/vol/7/1/000151/000151.html>.

Kitchin, Rob. "Big Data, New Epistemologies and Paradigm Shifts." *Big Data & Society* (April 2014).

Kloc, Joe. "Wikipedia Is Edited by Bots. That's a Good Thing." *Newsweek*, February 25, 2014.

Koch, Ulla. "Three Strikes and You're Out! A View on Cognitive Theory and the First-Millennium Extispicy Ritual." In *Divination and Interpretation of Signs in the Ancient World*, edited by Amar Annus, 43–60. Chicago: The Oriental Institute of the University of Chicago, 2010.

Koch-Westenholz, Ulla. *Mesopotamian Astrology: An Introduction to Babylonian and Assyrian Celestial Divination*. Copenhagen: Museum Tusulanum Press, 1995.

Kollanyi, Bence, Philip N. Howard, and Samuel C. Woolley. "Bots and Automation over Twitter during the U.S. Election." *Data Memo* 2016.4. Oxford: Project on Computational Propaganda, 2016. <https://demtech.oi.ox.ac.uk/wp-content/uploads/sites/89/2016/11/Data-Memo-US-Election.pdf>.

Koops, Bert-Jaap. "Forgetting Footprints, Shunning Shadows: A Critical Analysis of the Right to Be Forgotten in Big Data Practice." *Scripted* 8, no. 3 (2011): 229–256.

Koops Bert-Japp, Mireille Hildebrandt, and David-Oliver Jaquet-Chiffelle. "Bridging the Accountability Gap: Rights for New Entities in the Information Society?" *Minnesota Journal of Law, Science & Technology* 11, no. 2 (2010): 497–561.

Koselleck, Reinhart. *Vergangene Zukunft: Zur Semantik geschichtlicher Zeiten*. Frankfurt am Main: Suhrkamp, 1979.

Kotras, Baptiste. "Mass Personalization: Predictive Marketing Algorithms and the Reshaping of Consumer Knowledge." *Big Data & Society* 7, no. 2 (July–December 2020).

Krämer, Sybille. "Operative Bildlichkeit: Von der 'Grammatologie' zu einer 'Diagrammatologie'? Reflexionen über erkennendes 'Sehen.'" In *Logik des Bildlichen: Zur Kritik der ikonischen Vernunft*, edited by Martina Heßler and Dieter Mersch, 94–123. Bielefeld: Transcript, 2009.

Kurzweil, Ray. *The Singularity Is Near*. New York: Viking Books, 2005.

Lacan, Jacques. *Écrits: A Selection*. New York: Norton, 1981.

Lacan, Jacques. *Seminar XI: The Four Fundamental Concepts of Psychoanalysis*. New York: Penguin, 1977.

Lachmann, Renate. "Die Unlösbarkeit der Zeichen: Das semiotische Unglück des Memoristen." In *Gedächtniskunst: Raum-Bild-Schrift*, edited by Anselm Haverkamp and Renate Lachmann, 111–141. Frankfurt am Main: Suhrkamp, 1991.

Langohr, Herwig, and Patricia Langohr. *The Rating Agencies and Their Credit Ratings: What They Are, How They Work and Why They Are Relevant*. Chichester: Wiley, 2009.

Langville, Amy N., and Carl D. Meyer. *Google's PageRank and Beyond: The Science of Search Engine Rankings*. Princeton: Princeton University Press, 2006.

Latour, Bruno. "Beware, Your Imagination Leaves Digital Traces." *Times Higher Education Literary Supplement*, April 6, 2007.

Latour, Bruno. "Visualization and Cognition: Drawing Things Together." In *Knowledge and Society: Studies in the Sociology of Culture Past and Present*, ed. H. Kulkick, 1–40. Greenwich, CT: Jai Press, 1986.

Latour, Bruno. *We Have Never Been Modern*. Cambridge, MA: Harvard University Press, 1993.

Lazaro, Christophe. "Le pouvoir 'divinatoire' des algorithmes: De la prédiction à la préemption du futur." *Anthropologie et Sociétés* 42, no. 2–3 (2018): 127–150. <https://doi.org/10.7202/1052640ar>.

Lazer, David, Ryan Kennedy, Gary King, and Alessandro Vespignani. "The Parable of Google Flu: Traps in Big Data Analysis." *Science* 343, no. 6176 (2014): 1203–1205.

Lee, Monica, and John Levi Martin. "Surfeit and Surface." *Big Data and Society* 2, no. 2 (2015).

Lepore, Jill. "The Cobweb: Can the Internet Be Archived?" *New Yorker*, January 19, 2015.

Lerman, Jonas. "Big Data and Its Exclusions." *Stanford Law Review* 66, no. 65 (2013): 55–63.

Lettieri, Nicola. "Law, Rights, and the Fallacy of Computation: On the Hidden Pitfalls of Predictive Analytic." *Jura Gentium* 17, no. 2 (2020): 46–61.

Levich, Richard M., Giovanni Majnoni, and Carmen Reinhart. *Ratings, Rating Agencies and the Global Financial System*. New York: Springer US, 2002. <https://doi.org/10.1007/978-1-4615-0999-8>.

Lévy, Pierre. *L'Intelligence Collective: Pour une Anthropologie du Cyberspace*. Paris: La Découverte, 1994.

Lipton, Zachary C. "The Mythos of Model Interpretability." *ACM Queue* 16, no. 3 (2018): 1–27.

Liu, Alan. "From Reading to Social Computing." In *Literary Studies in the Digital Age: An Evolving Anthology*, edited by Kenneth M. Price and Ray Siemens. Modern Language Association of America, 2013. <https://dlsanthology.mla.hcommons.org/>.

Liu, Alan. "The Meaning in the Digital Humanities." *PMLA* 128, no. 2 (2013): 409–423.

Luhmann, Niklas. *Das Recht der Gesellschaft*. Frankfurt am Main: Suhrkamp, 1993.

Luhmann, Niklas. "Die Autopoiesis des Bewußtseins." *Soziale Welt* 36 (1985): 402–446.

Luhmann, Niklas. *Die Gesellschaft der Gesellschaft*. Frankfurt am Main: Suhrkamp, 1997.

Luhmann, Niklas. *Die Wissenschaft der Gesellschaft*. Frankfurt am Main: Suhrkamp, 1990.

Luhmann, Niklas. *Einführung in die Systemtheorie*. Heidelberg: Carl-Auer-Systeme, 2002.

Luhmann, Niklas. *Einführung in die Theorie der Gesellschaft*. Heidelberg: Carl-Auer-Systeme, 2005.

Luhmann, Niklas. "Ich sehe das, was Du nicht siehst." In Niklas Luhmann, *Soziologische Aufklärung*, vol. 5, 228–234. Opladen: Westdeutscher Verlag, 1990.

Luhmann, Niklas. "Individuum, Individualität, Individualismus." In *Gesellschaftsstruktur und Semantik. Studien zur Wissenssoziologie der modernen Gesellschaft* 3, 149–258. Frankfurt am Main: Suhrkamp, 1989.

Luhmann, Niklas. "Kommunikation mit Zettelkästen: Ein Erfahrungsbericht." In *Öffentliche Meinung und sozialer Wandel: Für Elisabeth Noelle-Neumann*, edited by Horst Baier, Hans Mathias Kepplinger, and Kurt Reumann, 222–228. Opladen: Westdeutscher Verlag, 1981.

Luhmann, Niklas. *Recht und Automation in der öffentlichen Verwaltung*. Berlin: Duncker & Humblot, 1966.

Luhmann, Niklas. *Soziale Systeme. Grundriß einer allgemeinen Theorie*. Frankfurt am Maine: Suhrkamp, 1984.

Luhmann, Niklas. *Soziologie des Risikos*. Berlin and New York: de Gruyter, 1991.

Luhmann, Niklas. "Temporalisierung von Komplexität: Zur Semantik neuzeitlicher Zeitbegriffe." In *Gesellschaftsstruktur und Semantik. Studien zur Wissenssoziologie der modernen Gesellschaft 1*, 235–300. Frankfurt am Main: Suhrkamp, 1980.

Luhmann, Niklas. *The Reality of the Mass Media*. Stanford: Stanford University Press, 1996.

Luhmann, Niklas. "Was ist Kommunikation?" In Niklas Luhmann, *Soziologische Aufklärung*, vol. 6, 109–120. Opladen: Westdeutscher Verlag, 1995.

Luhmann, Niklas. "Wie ist Bewußtsein an Kommunikation beteiligt?" In *Materialität der Kommunikation*, edited by Hans Ulrich Gumbrecht and K. Ludwig Pfeiffer, 884–905. Frankfurt am Main: Suhrkamp, 1988.

Lum, Kristian, and William Isaac. "To Predict and Serve?" *significancemagazine.com*, October 7, 2016: 14–19.

Luria, Alexander Romanovich. *Cognitive Development: Its Cultural and Social Foundations*. Cambridge, MA: Harvard University Press, 1976.

Luria, Alexander Romanovich. *The Mind of a Mnemonist: A Little Book about a Vast Memory*. Cambridge, MA: Harvard University Press, 1986.

Lury, Celia, and Sophie Day. "Algorithmic Personalization as a Mode of Individuation." *Theory, Culture & Society* 36, no. 2 (2019): 17–37.

MacKenzie, Adrian. "The Production of Prediction: What Does Machine Learning Want?" *European Journal of Cultural Studies* 18, nos. 4–5 (2015): 429–445.

MacKenzie, Donald. *An Engine, Not a Camera. How Financial Models Shape Markets*. Cambridge, MA: MIT Press, 2006.

MacKenzie, Donald, Fabian Muniesa, and Lucia Siu. *Do Economists Make Markets? On the Performativity of Economics*. Princeton: Princeton University Press, 2008.

Mainberger, Sabine. "Exotisch—endotisch oder Georges Perec lernt von Sei Shonagon: Überlegungen zu Listen, Literatur und Ethnologie." *LiLi: Zeitschrift für Literatur und Linguistik* 48, no. 3 (2017), 327–350. <https://doi.org/10.1007/s41244-017-0063-5>.

Manjoo, Farhad. "Where No Search Engine Has Gone Before." *Slate*, April 11, 2013. <https://slate.com/technology/2013/04/google-has-a-single-towering-obsession-it-wants-to-build-the-star-trek-computer.html>.

Manovich, Lev. "How to Compare One Million Images?" In *Understanding Digital Humanities*, edited by David M. Berry, 249–278. London: Palgrave Macmillan, 2012.

- Manovich, Lev. *The Language of New Media*. Cambridge, MA: MIT Press, 2001.
- Manovich, Lev. "What Is Visualization?" In *DIGAREC Keynote-Lectures 2009/10*, edited by Stephan Günzel, Michael Liebe, and Dieter Mersch, 116–156. Potsdam: University Press, 2011.
- March, James G. "Exploration and Exploitation in Organization Learning." *Organization Science* 2 (1991): 71–87.
- Marcuse, Herbert. *One-Dimensional Man. Studies in the Ideology of Advanced Industrial Society*. Boston: Beacon Press, 1964.
- Marres, Noortje, and Carolin Gerlitz. "Social Media as Experiments in Sociality." In *Inventing the Social*, edited by Noortje Marres, Michael Guggenheim and Alex Wilkie, 253–283. Manchester: Mattering Press, 2018.
- Mason, Paul. "The Racist Hijacking of Microsoft's Chatbot Shows How the Internet Teems with Hate." *Guardian*, March 29, 2016.
- Maul, Stefan M. *Die Wahrsagekunst im alten Orient*. Munich: Beck, 2013.
- Maul, Stefan M. "Divination Culture and the Handling of the Future." In *The Babylonian World*, edited by G. Leick, 361–372. New York: Routledge, 2007.
- Maul, Stefan M. "How the Babylonians Protected Themselves against Calamities Announced by Omens." In *Mesopotamian Magic: Textual, Historical, and Interpretative Perspectives: Ancient Magic and Divination I*, edited by Tzvi Abusch and Karel van der Toorn, 123–129. Groningen: Styx Publication, 1999.
- Max, D. T. "The Art of Conversation. The Curator Who Talked His Way to the Top." *New Yorker*, December 1, 2014.
- Mayer-Schönberger, Viktor. *Delete: The Virtue of Forgetting in the Digital Age*. Princeton: Princeton University Press, 2009.
- Mayer-Schönberger, Viktor, and Kenneth Cukier. *Big Data. A Revolution That Will Transform How We Live, Work, and Think*. London: Murray, 2013.
- McCombs, Maxwell E., and Donald L. Shaw. "The Agenda-Setting Function of Mass Media." *Public Opinion Quarterly* 36, no. 2 (1972): 176–187.
- McFarland, Daniel A., and H. Richard McFarland. "Big Data and the Danger of Being Precisely Inaccurate." *Big Data & Society* 2, no. 2 (December 2015). <https://doi.org/10.1177/2053951715602495>
- McGoey, Linsey. "Strategic Unknowns: Towards a Sociology of Ignorance." *Economy and Society* 41, no. 1 (2012): 1–16.
- McLuhan, Marshall. *Understanding Media*. New York: McGraw Hill, 1964.
- Mead, George Herbert. *Mind, Self and Society*. Chicago (Ill.): The University of Chicago Press, 1943.

Mehrabi, Ninareh, Fred Morstatter, Nripsuta Saxena, Kristina Lerman, and Aram Galstyan. "A Survey on Bias and Fairness in Machine Learning." arXiv.org, submitted on August 23, 2019. arXiv:1908.09635.

Mennicken, Andrea. "Numbers and Lists: Ratings and Rankings in Healthcare and the Correctional Services." Unpublished manuscript, 2016.

Mennicken, Andrea. "'Too Big to Fail and Too Big to Succeed': Accounting and Privatisation in the Prison Service of England and Wales." *Financial Accountability & Management* 29, no. 2 (2013): 206–226.

Metz, Cade. "Google Made a Chatbot that Debates the Meaning of Life." *Wired*, June 26, 2015. <https://www.wired.com/2015/06/google-made-chatbot-debates-meaning-life/>.

Metz, Cade. "How Google's AI Viewed the Move No Human Could Understand." *Wired*, March 14, 2016. <https://www.wired.com/2016/03/googles-ai-viewed-move-no-human-understand/>.

Metz, Cade. "If Xerox Parc Invented the PC, Google Invented the Internet." *Wired*, August 8, 2012. <https://www.wired.com/2012/08/google-as-xerox-parc/>.

Metz, Cade. "Inside Libratus, the Poker AI That Out-Bluffed the Best Humans." *Wired*, February 2, 2017. <https://www.wired.com/2017/02/libratus/>.

Metz, Cade. "In Two Moves, AlphaGo and Lee Sedol Redefined the Future." *Wired*, March 16, 2016. <https://www.wired.com/2016/03/two-moves-alphago-lee-sedol-redefined-future/>.

Metz, Cade. "London A.I. Lab Claims Breakthrough That Could Accelerate Drug Discovery." *New York Times*, November 30, 2020.

Metz, Cade. "What the AI behind AlphaGo Can Teach Us about Being Human." *Wired*, May 19, 2016. <https://www.wired.com/2016/05/google-alpha-go-ai/>.

Mialki, Stephanie. "How to Use Content Personalization with All Digital Marketing Campaigns," 2019. Updated (Feb. 2020): "4 Strategies of Content Personalization & How to Use Them in Digital Marketing Campaigns." <https://instapage.com/blog/content-personalization>.

Michura, Piotr, Stan Ruecker, Milena Radzikowska, Carlos Fiorentino, Tanya Clement, and Stéfan Sinclair. "Slot Machines, Graphs, and Radar Screens: Prototyping List-Based Literary Research Tools." In *The Charm of a List: From the Sumerians to Computerised Data Processing*, edited by Lucie Doležalová, 167–177. Newcastle upon Tyne: Cambridge Scholars Publishing, 2009.

Miele, Antonio, Elisa Quintarelli, and Letizia Tanca. "A Methodology for Preference-Based Personalization of Contextual Data." In *Proceedings of the 12th International Conference on Extending Database Technology: Advances in Database Technology*, 287–298. New York: Association for Computing Machinery, 2009.

- Miklós, Bálint. "Computer Respond to This Email: Introducing Smart Reply in Inbox by Gmail." Google (blog). Nov. 3, 2015. <https://gmail.googleblog.com/2015/11/computer-respond-to-this-email.html>.
- Miller, Tim. "Explanation in Artificial Intelligence: Insights from the Social Sciences." arXiv.org. Submitted August 15, 2018. <https://arxiv.org/pdf/1706.07269.pdf>.
- Mitchell, Tom M. *Machine Learning*. Boston: McGraw Hill, 1997.
- Mittelstadt, Brent Daniel, Patrick Allo, Mariarosaria Taddeo, Sandra Wachter, and Luciano Floridi. "The Ethics of Algorithms: Mapping the Debate." *Big Data and Society* 3, no. 2 (2016): 1–21.
- Mnih, Volodymyr, Koray Kavukcuoglu, David Silver, Andrei A. Rusu, Joel Veness, Marc G. Bellemare, Alex Graves, Martin Riedmiller, et al. "Human-Level Control through Deep Reinforcement Learning." *Nature* 518 (2015): 529–533.
- Moeller, Hans-Georg. "On Second-Order Observation and Genuine Pretending: Coming to Terms with Society." *Thesis Eleven* 143, no. 1 (2017): 28–43.
- Moor, James. "The Dartmouth College Artificial Intelligence Conference: The Next Fifty Years." *AI Magazine* 27, no. 4 (2016): 87–91.
- Moretti, Franco. "Conjectures on World Literature." *New Left Review* 1 (2000): 54–68.
- Moretti, Franco. "Evolution, World-Systems, Weltliteratur." In *Studying Transcultural Literary History*, edited by Gunilla Lindberg-Wada, 113–121. Berlin: Walter de Gruyter, 2006.
- Moretti, Franco. *La letteratura vista da lontano*. Torino: Einaudi, 2005.
- Moretti, Franco. "Literature, Measured." *Literary Lab Pamphlet* 12 (April 2016). <https://litlab.stanford.edu/LiteraryLabPamphlet12.pdf>.
- Moretti, Franco. *Maps, Graphs, Trees*. London and New York: Verso, 2005.
- Moretti, Franco. "More Conjectures." *New Left Review* 20 (2003): 73–81.
- Moretti, Franco. "Patterns and Interpretation." *Literary Lab Pamphlet* 15 (September 2017). <https://litlab.stanford.edu/LiteraryLabPamphlet15.pdf>.
- Moretti, Franco. "Style, Inc. Reflections on Seven Thousand Titles (British Novels, 1740–1850)." *Critical Inquiry* 36, no. 1 (2009): 134–158.
- Moretti, Franco, and Oleg Sobchuk. "Hidden in Plain Sight. Data Visualization in the Humanities." *New Left Review* 118 (2019): 86–115.
- Mori, Masahiro. "The Uncanny Valley." Translated by Karl F. MacDorman, and Norri Kageki. *IEEE Robotics and Automation* 19, no. 2 (2012): 98–100. <https://doi.org/10.1109/MRA.2012.2192811>.
- Morin, Oliver, and Alberto Acerbi. "Birth of the Cool: a Two-Centuries Decline in Emotional Expression in Anglophone Fiction." *Cognition and Emotion* 31, no. 8 (2017): 1663–1675.

Morozov, Evgeny. *The Net Delusion: The Dark Side of Internet Freedom*. New York: PublicAffairs, 2011.

Mozur, Paul. "Google's AlphaGo Defeats Chinese Go Master in Win for A.I." *New York Times*, May 23, 2017.

Mullainathan, Sendhil. "Why Computers Won't Be Replacing You Just Yet." *New York Times*, July 1, 2014.

Mullin, Shenelle. "Why Content Personalization Is Not Web Personalization (and What to Do About It)." CXL, September 4, 2019. <https://cxl.com/blog/web-personalization/>.

Münster, Sander, and Melissa Terras. "The Visual Side of Digital Humanities: a Survey on Topics, Researchers, and Epistemic Cultures." *Digital Scholarship in the Humanities* 35, no. 2 (2019): 366–389. <https://doi.org/10.1093/lc/fqz022>.

Munzner, Tamara. "Process and Pitfalls in Writing Information Visualization Research Papers." In *Information Visualization: Human-Centered Issues and Perspectives*, edited by Andreas Kerren, John T. Stasko, Jean-Daniel Fekete, and Chris North, 134–153. Heidelberg: Springer, 2008.

Musselin, Christine. *La Grande Course des Universités*. Paris: Presses de Sciences Po, 2017.

Nabi, Zubair. "Resistance Censorship Is Futile." *First Monday* 19, no. 11 (November 2014), <https://firstmonday.org/ojs/index.php/fm/article/view/5525>.

Nass, Clifford, and Corina Yan. *The Man Who Lied to His Laptop: What We Can Learn About Ourselves from Our Machines*. London: Penguin, 2010.

Neff, Gina, and David Stark. "Permanently Beta: Responsive Organization in the Internet Era." In *The Internet and American Life*, edited by Philip N. Howard and Steve Jones, 173–188. Thousand Oaks, CA: SAGE, 2004.

Negarestani, Reza. *Intelligence and Spirit*. Cambridge, MA: Urbanomic/Sequence Press, 2018.

Nichols, Robin. "Customization vs Personalization." AB Tasty Blog, March 9, 2018. <https://www.abtasty.com/blog/customization-vs-personalization/>.

Nietzsche, Friedrich. *Unzeitgemässe Betrachtungen. Zweites Stück: Vom Nutzen und Nachteil der Historie für das Leben*. Berlin and New York: de Gruyter, 1972. (Originally published 1874.)

Nilsson, Nils J. *The Quest for Artificial Intelligence. A History of Ideas and Achievements*. New York: Cambridge University Press, 2010.

Nissenbaum, Helen. "Privacy as Contextual integrity." *Washington Law Review* 79, no. 1 (2004): 79–119.

Nissinen, Martti Heikki. "Prophecy and Omen Divination: Two Sides of the Same Coin." In *Divination and Interpretation of Signs in the Ancient World*, edited by Annus Amar, 341–350. Chicago: The Oriental Institute of the University of Chicago, 2010.

Obrist, Hans Ulrich. *Ways of Curating*. London: Allen Lane, 2014.

O'Doherty, Brian. *Inside the White Cube: The Ideology of the Gallery Space*. Santa Monica: Lapis Press, 1986.

O'Donnell, Katie, Henriette Cramer. "People's Perceptions of Personalized Ads." In *Proceedings of the 24th International Conference on World Wide Web*, 1293–1298. New York: ACM Press, 2015. <https://doi.org/10.1145/2740908.2742003>.

O'Neil, Cathy. *Weapons of Math Destruction*. New York: Crown, 2016.

Ong, Walter J. *Orality and Literacy. The Technologizing of the Word*. New York: Methuen, 1982.

O'Reilly, Tim. "What is Web 2.0: Design Patterns and Business Models for the Next Generation of Software." *Communications & Strategies* 1 (2007): 17–37. <https://ssrn.com/abstract=1008839>

Oring, Elliott. "Jokes on the Internet: Listing toward Lists." In *Folk Culture in the Digital Age: The Emergent Dynamics of Human Interaction*, edited by Trevor J. Blank, 98–118. Boulder, CO: Utah State University Press, 2012.

Overbye, Dennis, "Can a Computer Devise a Theory of Everything?" *New York Times*, November 23, 2020. <https://www.nytimes.com/2020/11/23/science/artificial-intelligence-ai-physics-theory.html>.

Pagano, Roberto, Paolo Cremonesi, Martha Larson, Balázs Hidasi, Domonkos Tikk, Alexandros Karatzoglou, and Massimo Quadrana. "The Contextual Turn: from Context-Aware to Context-Driven Recommender Systems." In *Proceedings of the 10th ACM Conference on Recommender Systems (RecSys '16)*, 249–252. New York: Association for Computing Machinery, 2016. <https://doi.org/10.1145/2959100.2959136>.

Page, Lawrence, Sergey Brin, Rajeev Motwani, and Terry Winograd. "The PageRank Citation Ranking: Bringing Order to the Web." Technical Report, Stanford Infolab, 1999. <http://ilpubs.stanford.edu:8090/422/>.

Panofsky, Erwin. "Die Perspektive als 'symbolische Form.'" In *Vorträge der Bibliothek Warburg 1924–1925*, 258–330. Leipzig: Teubner, 1927.

Pariser, Eli. *The Filter Bubble. What the Internet Is Hiding from You*. London: Viking, 2011.

Parker, Elizabeth S., Larry Cahill, and James L. McGaugh. "A Case of Unusual Autobiographical Remembering." *Neurocase* 12, no. 1 (2006): 35–49. <https://doi.org/10.1080/13554790500473680>.

Parsons, Talcott. "Interaction: Social Interaction." *International Encyclopedia of the Social Sciences* 7 (1968): 429–441.

Parsons, Talcott, and Edward A. Shils, eds. *Toward a General Theory of Action*. Cambridge, MA: Harvard University Press, 1951.

Pasquale, Frank. *The Black Box Society. The Secret Algorithms That Control Money and Information*. Cambridge, MA: Harvard University Press, 2015.

Peng, Tony. "LeCun vs Rahimi: Has Machine Learning Become Alchemy?" *Synced*, December 12, 2017. <https://syncedreview.com/2017/12/12/lecun-vs-rahimi-has-machine-learning-become-alchemy/>.

Peruzzi, Antonio, Fabiana Zollo, Ana Lucía Schmidt, and Walter Quattrociocchi. "From Confirmation Bias to Echo-Chambers: A Data-Driven Approach." In *What Is New in Fake News? Public Opinion and Second-Order Observation in a Hyperconnected Society*, edited by Alberto Cevolini and Gérald Bronner. Special issue of *Sociologia e Politiche Sociali* 21, no. 3 (2018): 47–74.

Pichel, Martin, Eva Zangerle, and Gunther Specht. "Towards a Context-Aware Music Recommendation Approach: What is Hidden in the Playlist Name?" *Conference: 2015 IEEE International Conference on Data Mining Workshop*. <https://doi.org/10.1109/ICDMW.2015.145>.

Pierce, David. "Meet the Smartest, Cutest AI-Powered Robot You've Ever Seen." *Wired*, June 27, 2016. <https://www.wired.com/2016/06/anki-cozmo-ai-robot-toy/>.

Pierce, David. "Spotify's Latest Algorithmic Playlist Is Full of Your Favorite New Music." *Wired*, August 5, 2016. <http://wired.com/2016/08/spotify-latest-algorithmic-playlist-full-favorite-new-music/>.

Peiser, Jaclyn. "The Rise of the Robot Reporter." *New York Times*. February 5, 2019. <https://www.nytimes.com/2019/02/05/business/media/artificial-intelligence-journalism-robots.html>.

Pine, B. Joseph II, Don Peppers, and Martha Rogers. "Do You Want to Keep Your Customers Forever?" *Harvard Business Review* (March-April 1995): 103–114.

Plato. *Complete Works*. Indianapolis: Hackett, 1997.

Podolny, Shelley. "If an Algorithm Wrote This, How Would You Even Know?" *New York Times*, March 7, 2015.

Poole, Steven. "Top Nine Things You Need to Know about Listicles." *Guardian*, November 12, 2013.

Popovich, Nadja, Blacki Migliozi, Karthik Patanjali, Anja Singhvi, and Jon Huang. "See How the World's Most Polluted Air Compares With Your City's." *New York Times*, December 2, 2019. <https://www.nytimes.com/interactive/2019/12/02/climate/air-pollution-compare-ar-ul.html>.

Popper, Karl. *Conjectures and Refutations. The Growth of Scientific Knowledge*. New York: Basic Books, 1962.

Porphyry (the Phoenician). *Isagoge*. Translated by Edward W. Warren. Toronto: Pontifical Institute of Mediaeval Studies, 1975.

Porter, Theodore M. *The Rise of Statistical Thinking 1820–1900*. Princeton: Princeton University Press, 1986.

Presner, Todd and David Shepard. "Mapping the Geospatial Turn." In *A New Companion to Digital Humanities*, edited by Susan Schreibman, Ray Siemens, and John Unsworth, 201–212. Chichester: Wiley, 2016.

Prey, Robert. "Nothing Personal: Algorithmic Individuation on Music Streaming Platforms." *Media, Culture & Society* 40, no. 7 (2018): 1086–1100. <https://doi.org/10.1177/0163443717745147>

Quito, Anne. "The Next Design Trend Is One That Eliminates All Choices." *Quartz*, June 18, 2015. <https://qz.com/429929/the-next-design-trend-is-one-that-eliminates-all-choices>.

Ramsay, Stephen. *Reading Machines: Toward an Algorithmic Criticism*. Champaign: University of Illinois Press, 2011.

Reding, Viviane. *The EU Data Protection Reform 2012: Making Europe the Standard Setter for Modern Data Protection Rules in the Digital Age* 5 January 22, 2012. <http://europa.eu/rapid/pressReleasesAction.do?reference=SPEECH/12/26&format=PDF>.

Reese, Hope. "Why Microsoft's 'Tay' AI Bot Went Wrong." *Tech Republic*, March 24, 2016. <https://www.techrepublic.com/article/why-microsofts-tay-ai-bot-went-wrong/>.

Ribeiro, Marco Tulio, Sameer Singh, and Carlos Guestrin. "'Why Should I Trust You?' Explaining the Predictions of Any Classifier." arXiv.org. Submitted on August 9, 2016. <https://arxiv.org/pdf/1602.04938.pdf>.

Ricoeur, Paul. *Memory, History, Forgetting*. Chicago: University of Chicago Press, 2004.

Rieder, Bernhard. "Scrutinizing an Algorithmic Technique: The Bayes classifier as Interested Reading of Reality." *Information, Communication and Society* 20, no 1 (2017). <http://dx.doi.org/10.1080/1369118X.2016.1181195>.

Rochberg, Francesca. *The Heavenly Writing: Divination, Horoscopy, and Astronomy in Mesopotamian Culture*. Cambridge University Press, 2016.

Rochberg, Francesca. "The History of Science and Ancient Mesopotamia." *Journal of Ancient Near Eastern History* 1, no. 1 (2014): 37–60.

Rochberg, Francesca. "Reasoning, Representing, and Modeling in Babylonian Astronomy." *Journal of Ancient Near Eastern History* 5, no. 1–2 (2018). <https://doi.org/10.1515/janeh-2018-0009>

Rogers, Richard. *Digital Methods*. Cambridge, MA: MIT Press, 2013.

Rohlfing, Katharina J., Cimiano, Philipp, Scharlau, Ingrid, Matzner, Tobias, Buhl, Heike M., Buschmeier, Hendrik; Esposito, Elena; (2020): Explanation as a social

practice: Towards a conceptual framework to foster social design of AI systems. *IEEE Transactions on Cognitive and Developmental Systems* (2020). <https://doi.org/10.1109/TCDS.2020.3044366>.

Rona-Tas, Akos. "Predicting the Future: Art and Algorithms." *Socio-Economic Review* 18, no. 3 (October 2020): 893–911.

Ronson, Jon. *So You've Been Publicly Shamed*. New York: Riverhead, 2015.

Rosen, Jeffrey. "The Right to Be Forgotten." *Stanford Law Review Online* 64 (2012): 88–92.

Rouvroy, Antoinette. "Réinventer l'art d'oublier et de se faire oublier dans la société de l'information?" In *La sécurité de l'individu numérisé. Réflexions prospectives et internationales*, edited by Stephanie Lacour, 249–278. Paris: L'Harmattan, 2008.

Ruppert, Evelyn. "Population Objects: Interpassive Subjects." *Sociology* 45, no. 2 (2011): 218–233.

Rusbridger, Alan. *Breaking News: The Remaking of Journalism and Why It Matters Now*. New York: Farrar, Straus and Giroux, 2018.

Russell, Stuart J., and Peter Norvig. *Artificial Intelligence. A Modern Approach*. 2nd ed. Upper Saddle River, NJ: Pearson Education, 2003.

Sabbagh, Michel. "The Important Differences between First-Person and Third-Person Games." *Gamasutra*, August 27, 2015. https://www.gamasutra.com/blogs/Michel_Sabbagh/20150827/252341/The_important_differences_between_firstperson_and_thirdperson_games.php.

Sarvas, Risto, and David M. Frohlich. *From Snapshots to Social Media—The Changing Picture of Domestic Photography*. London: Springer, 2011.

Saussure, Ferdinand de. *Cours de linguistique générale*. Paris: Payot, 1922.

Schaffrick, Matthias, and Niels Werber. "Die Liste, paradigmatisch." *Zeitschrift für Literaturwissenschaft und Linguistik* 47 (2017): 303–317.

Schleiermacher, Friedrich. *Hermeneutik. Nach den Handschriften neu herausgegeben*. Heidelberg: Winter, 1959.

Schmidt, Johannes. "Niklas Luhmann's Card Index: Thinking Tool, Communication Partner, Publication Machine." In *Forgetting Machines. Knowledge Management Evolution in Early Modern Europe*, edited by Alberto Cevoloni, 289–311. Leiden: Brill, 2016.

Schöch, Christof. "Big? Smart? Clean? Messy? Data in the Humanities." *Journal of Digital Humanities* 2, no. 3 (2013).

Schölkopf, Bernhard. "Learning to See and Act." *Nature* 518 (2015): 486–487.

Schulz, Kathryn. "What Is Distant Reading?" *New York Times*, June 24, 2011.

Schwandt, Silke. "Digitale Methoden für die Historische Semantik—Auf den Spuren von Begriffen in digitalen Korpora." *Geschichte und Gesellschaft* 44, no. 1 (2018): 107–134.

Schwandt, Silke. "Digitale Objektivität in der Geschichtswissenschaft? Oder: Kann man finden, was man nicht sucht?" *Rechtsgeschichte* 24 (2016): 337–338.

Schwandt, Silke. "Virtus as a Political Concept in the Middle Ages." *Contributions to the History of Concepts* 10 (2015): 71–90.

Schwartz, Oscar. "Digital ads are starting to feel psychic." *The Outline*, July 13, 2018. <https://theoutline.com/post/5380/targeted-ad-creepy-surveillance-facebook-instagram-google-listening-not-alone?zd=1&zi=t5zvwzdn>.

Scott, Mark. "Use of Ad-Blocking Software Rises by 30% Worldwide." *New York Times*, January 31, 2017.

Scott, Susan V., and Wanda J. Orlikowski. "Reconfiguring Relations of Accountability: Materialization of Social Media in the Travel Sector." *Accounting, Organizations and Society* 37, no. 1 (2012): 26–40.

Seabrook, John. "Can a Machine Learn to Write for the *New Yorker*?" *New Yorker*, October 14, 2019. <https://www.newyorker.com/magazine/2019/10/14/can-a-machine-learn-to-write-for-the-new-yorker>.

Searle, John R. "Mind, Brains and Programs." *Behavioral and Brain Sciences* 3, no. 3 (1980): 417–457.

Seaver, Nick. "Algorithmic Recommendations and Synaptic Functions." *Limn* 2 (2012). <http://limn.it/algorithmic-recommendations-and-synaptic-functions/>.

Shalev-Shwartz, Shai, and Shai Ben-David. *Understanding Machine Learning: From Theory to Algorithms*. Cambridge: Cambridge University Press, 2014.

Shannon, Claude E., and Warren Weaver. *The Mathematical Theory of Communication*. Urbana: University of Illinois Press, 1949.

Shapiro, Aaron. "Reform Predictive Policing." *Nature* 541 (2017): 458–460.

Sharma, Amit. "How Predictive AI Will Change Shopping." *Harvard Business Review*, November 18, 2016. <https://hbr.org/2016/11/how-predictive-ai-will-change-shopping>.

Sharon, Tamar, and Dorien Zandbergen. "From Data Feticism to Quantifying Selves: Self-Tracking Practices and the Other Values of Data." *New Media & Society* 19, no. 11 (2016): 1695–1709. <https://doi.org/10.1177/1461444816636090>.

Shmueli, Galit. "To Explain or to Predict?" *Statistical Science* 25, no. 3 (2010): 289–310.

Siegel, Eric. *Predictive Analytics: The Power to Predict Who will Click, Buy, Lie or Die*. Hoboken, NJ: Wiley, 2016.

Silver, David, and Demis Hassabis. "AlphaGo: Mastering the Ancient Game of Go with Machine Learning." Google AI Blog, January 27, 2016. <https://research.google.com/2016/01/alphago-mastering-ancient-game-of-go.html>.

Silver, David, Julian Schrittwieser, Karen Simonyan, Ioannis Antanoglou, Aja Huang, Arthur Guez, Thomas Hubert, et al. "Mastering the Game of Go without Human Knowledge." *Nature* 550 (2017): 354–359.

Silver, Nate. *The Signal and the Noise: Why Most Predictions Fail—but Some Don't*. New York: Penguin, 2012.

Simon, Judith. "Epistemic Responsibility in Entangled Socio-Technical Systems." In *Social Computing, Social Cognition, Social Networks and Multiagent Systems. Social Turn—SNAMAS 2012*, edited by Gordana Dodig-Crnkovic, Antonio Rotolo, Giovanni Sartor, Judith Simon, and Clara Smith. Birmingham: The Society for the Study of Artificial Intelligence and Simulation of Behaviour, 2012.

Sinclair, Stéfan, and Geoffrey Rockwell. "Text Analysis and Visualization: Making Meaning Count." In *A New Companion to Digital Humanities*, edited by Susan Schreibman, Raymond Siemens, and John Unsworth, 274–290. Chichester: Wiley, 2016.

Sinclair, Stéfan, and Geoffrey Rockwell. "Voyant Tools." Accessed March 1, 2018. <https://voyant-tools.org/docs/#!/guide/about>.

Sinha, Jay I., Thomas Foscht, and Thomas T. Fung. "How Analytics and AI Are Driving the Subscription E-commerce Phenomenon." *MIT Sloan Management Review* (blog), December 6, 2016. <https://sloanreview.mit.edu/article/using-analytics-and-ai-subscription-e-commerce-has-personalized-marketing-all-boxed-up/>.

Smith, Ben. "Why the Success of the *New York Times* May Be Bad News for Journalism." *New York Times*, March 2, 2020.

Sneha, P. P. "Reading from a Distance—Data as Text." The Centre for Internet & Society, July 23, 2014. <http://cis-india.org/raw/digital-humanities/reading-from-a-distance>.

Sober, Elliott. *Ockham's Razors: A User's Manual*. Cambridge: Cambridge University Press, 2016.

Solan, Lawrence M. "Pernicious Ambiguity in Contracts and Statutes." *Chicago-Kent Law Review* 79 (2004): 859–888.

Solon, Olivia. "Weavrs. The Autonomous, Tweeting Blog-Bots That Feed on Social Content." *Wired.co.uk*, March 28, 2012. <https://www.wired.co.uk/article/weavrs-spambots-or-discoverability-agents>.

Solove, Daniel J. *The Future of Reputation: Gossip, Rumor and Privacy on the Internet*. New Haven: Yale University Press, 2007.

Solove, Daniel J. "'I've Got Nothing to Hide' and other Misunderstandings of Privacy." *San Diego Law Review* 44 (2007): 745–772.

- Solove, Daniel J. "Speech, Privacy, and Reputation on the Internet." In *The Offensive Internet: Speech, Privacy, and Reputation*, edited by Saul Levmore and Martha C. Nussbaum, 15–30. Cambridge MA: Harvard University Press, 2011.
- Sontag, Susan. *On Photography*. London: Penguin, 1977.
- Spence, Robert. *Information Visualization: Design for Interaction*. Harlow: Pearson, 2007.
- Stark, David. *The Sense of Dissonance: Accounts of Worth in Economic Life*. Princeton: Princeton University Press, 2009.
- Stark, David, and Verena Paravel. "PowerPoint in Public. Digital Technologies and the New Morphology of Demonstration." *Theory, Culture & Society* 25, no. 5 (2008): 30–55.
- Stuart, Debra L. "Reputational Rankings: Background and Development." *New Directions for Institutional Research* 88 (1995): 13–20.
- Suchman, Lucy A. *Plans and Situated Actions: The Problem of Human-Machine Communication*. Cambridge: Cambridge University Press, 1987.
- Sunstein, Cass. *Republic.com*. Princeton: Princeton University Press, 2001.
- Sunstein, Cass. *#Republic: Divided Democracy in the Age of Social Media*. Princeton: Princeton University Press, 2017.
- Sweeney, Erica. "75% of Consumers Find Many Forms of Marketing Personalization Creepy, New Study Says." *MarketingDive*, February 21, 2018. <https://www.marketingsdive.com/news/75-of-consumers-find-many-forms-of-marketing-personalization-creepy-new-s/517488/>.
- Talbott, William. "Bayesian Epistemology." *Stanford Encyclopedia of Philosophy*, edited by Zalta, Edward N. Stanford: Center for the Study of Language and Information (CSLI), 2008. <https://plato.stanford.edu/entries/epistemology-bayesian/>.
- Taylor, Laurie. "When Seams Fall Apart: Video Game Space and the Player." *Game Studies* 3, no. 2 (2003).
- Taylor, Paul. "The Concept of 'Cat Face.'" *London Review of Books* 38, no. 16 (2016): 30–32.
- Tegmark, Max. *Life 3.0: Being Human in the Age of Artificial Intelligence*. New York: Knopf, 2017.
- Telea, Alexandru C. *Data Visualization: Principles and Practice*. Boca Raton: CRC, 2015.
- Teubner, Gunther. "Elektronische Agenten und große Menschenaffen: Zur Ausweitung des Akteurstatus." *Recht und Politik. Zeitschrift für Rechtssoziologie* 27, no. 1 (2006): 5–30.

Thiedeke, Udo. "Wir Kosmopoliten. Einführung in eine Soziologie des Cyberspace." In *Soziologie des Cyberspace: Medien, Strukturen und Semantiken*, edited by Udo Thiedeke, 15–47. Wiesbaden: Springer VS, 2013.

Thrun, Sebastian, and Lorien Pratt, eds. *Learning to Learn*. Dordrecht: Kluwer, 1998.

Toobin, Jeffrey. "The Solace of Oblivion. In Europe, the Right to Be Forgotten Trumps the Internet." *New Yorker*, September 29, 2014.

Treaster, Joseph B. "Will You Graduate? Ask Big Data." *New York Times*, February 2, 2017.

Tufte, Edward R. *Envisioning Information*. Cheshire: Graphic Press, 1990.

Tufte, Edward R. *The Visual Display of Quantitative Information*. Cheshire: Graphic Press, 1983.

Tufte, Edward R. *Visual Explanations: Images and Quantities, Evidence and Narrative*. Cheshire: Graphic Press, 1997.

Turing, Alan M. "Computing Machinery and Intelligence." *Mind* 59, no. 236 (1950): 433–460.

Turkle, Sherry. *Alone Together. Why We Expect More from Technology and Less from Each Other*. New York: Basic Books, 2011.

Vaidhyanathan, Siva. *The Googlization of Everything (And Why We Should Worry)*. Berkley/Los Angeles: University of California Press, 2011.

Vandermeersch, Leon. "Dalla tartaruga all'achillea (Cina)." In *Divination et Rationalité*, edited by J.P. Vernant, L. Vandermeersch, J. Gernet, J. Bottéro, R. Crahay, L. Brisson, J. Carlier, D. Grodzynski, and A. Retel-Laurentin, 27–52. Paris: Seuil, 1974.

Vanderstichele, Geneviève. "Interpretable AI, Explainable AI and the Sui Generis Method in Adjudication." Unpublished manuscript, 2020.

van Dijck, José. "Digital Photography: Communication, Identity, Memory." *Visual Communication* 7 (2008): 57–76.

van Hoboken, Joris. "The Proposed Right to be Forgotten Seen from the Perspective of Our Right to Remember, Freedom of Expression Safeguards in a Converging Information Environment." Unpublished manuscript, 2013.

van Hoboken, Joris. "Search Engine Freedom: On the Implications of the Right to Freedom of Expression for the Legal Governance of Web Search Engines." *Information Law Series* 27. Alphen aan den Rijn: Kluwer Law International, 2012.

Van House, Nancy A. "Personal Photography, Digital Technologies and the Uses of the Visual." *Visual Studies* 26, no. 2 (2011): 125–134.

Vernant, Jean-Pierre. "Parole e segni muti." In *Divination et Rationalité*, edited by J. P. Vernant, L. Vandermeersch, J. Gernet, J. Bottéro, R. Crahay, L. Brisson, J. Carlier, D. Grodzynski, and A. Retel-Laurentin, 5–24. Paris: Seuil, 1974.

Vespignani, Alessandro. *L'algoritmo e l'oracolo: Come la scienza predice il futuro e ci aiuta a cambiarlo*. Milan: Il Saggiatore, 2019.

Vis, Farida. "A Critical Reflection on Big Data: Considering APIs, Researchers and Tools as Data Makers." *First Monday* 18, no. 10 (2013). <https://doi.org/10.5210/fm.v18i10.4878>.

Visi, Tamás. "A Science of List? Medieval Jewish Philosophers as List Makers." In *The Charm of a List: From the Sumerians to Computerised Data Processing*, edited by Lucie Doležalová, 12–33. Newcastle upon Tyne: Cambridge Scholars Publishing, 2009.

von Foerster, Heinz. "Cibernetica ed epistemologia: Storia e prospettive." In *La sfida della complessità*, edited by G. Bocchi and M. Ceruti, 112–140. Milan: Feltrinelli, 1985.

von Foerster, Heinz. *Observing Systems*. Seaside, CA: Intersystems Publications, 1981.

von Foerster, Heinz. "Notes on an Epistemology for Living Things." BCL Report No.9.3. Biological Computer Laboratory, University of Illinois, 1972.

von Glasersfeld, Ernst. "Einführung in den radikalen Konstruktivismus." In *Die erfundene Wirklichkeit*, edited by Paul Watzlawick, 16–38. Munich: Piper, 1981.

von Soden, Wolfram. "Leistung und Grenze sumerischer und babylonischer Wissenschaft. Die Welt als Geschichte." In *Die Eigenbegrifflichkeit der babylonischen Welt. Leistung und Grenze sumerischer und babylonischer Wissenschaft*, edited by Benno Landsberger, 21–133. Darmstadt: Wissenschaftliche Buchgesellschaft, 1975.

Wachter, Sandra, Brent Mittelstadt, and Luciano Floridi. "Transparent, Explainable, and Accountable AI for Robotics." *Science Robotics* 2, no. 6 (2017). <https://doi.org/10.1126/scirobotics.aan6080>.

Waggoner, Zach. *My Avatar, My Self: Identity in Video Role-Playing Games*. Jefferson: McFarland, 2009.

Wagner-Pacifi, Robin, John W. Mohr, and Ronald L. Breiger. "Ontologies, Methodologies and New Uses of Big Data in the Social and Cultural Sciences." *Big Data & Society* 2, no. 2 (2015): 1–11.

Walton, Douglas, Fabrizio Macagno, and Giovanni Sartor. *Statutory Interpretation: Pragmatics and Argumentation*. Cambridge: Cambridge University Press, 2021.

Wang, Yongdong. "Your Next New Best Friend Might Be a Robot: Meet Xiaoice. She's Empathic, Caring, and Always Available—Just Not Human." *Nautilus*, February 4, 2016. <http://nautil.us/issue/33/attraction/your-next-new-best-friend-might-be-a-robot>.

Ward, Matthew, Georges Grinstein, and Daniel Keim. *Interactive Data Visualization: Foundations, Techniques, and Applications*. Boca Raton: CRC, 2015.

Ware, Colin. *Information Visualization: Perception for Design*. San Diego: Academic Press, 2000.

Wasik, Bill. *And Then There's This: How Stories Live and Die in Viral Culture*. London/New York: Viking, 2009.

Watzlawick, Paul. *Die erfundene Wirklichkeit*. Munich: Piper, 1981.

Watzlawick, Paul, Janet Beavin Bavelas, and Don D. Jackson. *Pragmatics of Human Communication: A Study of Interactional Patterns, Pathologies, and Paradoxes*. New York: Norton, 1962.

Weinberger, David. *Everything Is Miscellaneous: The Power of the New Digital Disorder*. New York: Henry Holt, 2007.

Weinberger, David. "Our Machines Now Have Knowledge We'll Never Understand." *Wired*, April 18, 2017. <https://www.wired.com/story/our-machines-now-have-knowledge-well-never-understand/>.

Weinberger, David. *Taxonomies to Tags: From Trees to Piles of Leaves*. New York: CNET Networks, 2005.

Weinrich, Harald. *Gibt es eine Kunst des Vergessens?* Basel: Schwabe, 1996.

Weinrich, Harald. *Lethe. Kunst und Kritik des Vergessens*. Munich: Beck, 1997.

Weitin, Thomas. "Thinking Slowly: Reading Literature in the Aftermath of Big Data." *LitLingLab Pamphlet 1*, 2015.

Welch, Chris. "Google Just Gave a Stunning Demo of Assistant Making an Actual Phone Call." *The Verge*, May 8, 2018. <https://www.theverge.com/2018/5/8/17332070/google-assistant-makes-phone-call-demo-duplex-io-2018>.

Whitmore, Michael. "Text: A Massively Addressable Object." In *Debates in the Digital Humanities*, edited by Matthew K. Gold, 324–327. Minneapolis: University of Minnesota Press, 2012.

Wilding, John, and Elizabeth Valentine. *Superior Memories*. Hove: Psychology Press, 1997.

Williams, Eliza. "24 Hours in Photos." *Creative Review*, November 11, 2011. <https://www.creativereview.co.uk/24-hours-in-photos/>.

Winograd, Terry A., and Fernando Flores. *Understanding Computer and Cognition*. Reading, MA: Addison-Wesley, 1986.

Wolchover, Natalie. "AI Recognizes Cats the Same Way Physicists Calculate the Cosmos." *Wired*, December 15, 2014. <https://www.wired.com/2014/12/deep-learning-renormalization/>

Woodruff, Allison. "Necessary, unpleasant, and disempowering: reputation management in the internet age." In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*. New York: ACM Press, 2014.

Wright, Talmadge, Eric Boria, and Paul Breidenbach. "Creative Player Actions in FPS Online Video Games." *Game Studies* 2, no. 2 (2002). <http://www.gamestudies.org/0202/wright/>

Wrisley, David Joseph, and Stefan Jänicke. "Visualizing Uncertainty: How to Use the Fuzzy Data of 550 Medieval Texts?" Abstract for Digital Humanities, University of Nebraska–Lincoln, July 2013. <http://dh2013.unl.edu/abstracts/ab-158.html>.

Wu, Tim. *The Attention Merchants: The Epic Scramble to Get Inside Our Heads*. New York: Alfred A. Knopf, 2016.

Xiao, Lang, Lu Qibei, and Guo Feipeng. "Mobile Personalized Recommendation Model Based on Privacy Concerns and Context Analysis for the Sustainable Development of M-commerce." *Sustainability* 12, no. 7 (2020): 3036.

Yates, Frances A. *The Art of Memory*. London: Routledge & Kegan Paul, 1966.

Youyou, Wu, Michal Kosinski, and David Stillwell. "Computer-Based Personality Judgments Are More Accurate Than Those Made by Humans." *Proceedings of the National Academy of Sciences* 112, no. 4 (2015): 1036–1040.

Zuboff, Shoshana. *The Age of Surveillance Capitalism: The Fight for a Human Future at the New Frontier of Power*. London: Profile Books, 2019.

Zumthor, Paul. *Introduction à la poésie orale*. Paris: Seuil, 1972.

This is a section of [doi:10.7551/mitpress/14189.001.0001](https://doi.org/10.7551/mitpress/14189.001.0001)

Artificial Communication

How Algorithms Produce Social Intelligence

By: Elena Esposito

Citation:

Artificial Communication: How Algorithms Produce Social Intelligence

By: Elena Esposito

DOI: [10.7551/mitpress/14189.001.0001](https://doi.org/10.7551/mitpress/14189.001.0001)

ISBN (electronic): 9780262368865

Publisher: The MIT Press

Published: 2022

The open access edition of this book was made possible by generous funding and support from the MIT Libraries.



The MIT Press

© 2022 Massachusetts Institute of Technology

This work is subject to a Creative Commons CC-BY-NC-ND license.



Subject to such license, all rights are reserved.

The MIT Press would like to thank the anonymous peer reviewers who provided comments on drafts of this book. The generous work of academic experts is essential for establishing the authority and quality of our publications. We acknowledge with gratitude the contributions of these otherwise uncredited readers.

This book was set in Stone Serif and Avenir by Jen Jackowitz. Printed and bound in the United States of America.

Library of Congress Cataloging-in-Publication Data

Names: Esposito, Elena, author.

Title: Artificial communication : how algorithms produce social intelligence / Elena Esposito.

Description: Cambridge, Massachusetts : The MIT Press, [2022] | Series: Strong ideas series | Includes bibliographical references and index.

Identifiers: LCCN 2021013271 | ISBN 9780262046664 (hardcover)

Subjects: LCSH: Telecommunication—Social aspects. | Artificial intelligence—Social aspects. | Online identities. | Social intelligence.

Classification: LCC HM851 .E765 2022 | DDC 303.48/33—dc23

LC record available at <https://lcn.loc.gov/2021013271>

10 9 8 7 6 5 4 3 2 1