

## References

- Adler, Laura. "How Smart City Barcelona Brought the Internet of Things to Life." *Data-Smart City Solutions* (February 18, 2016). <https://datasmart.ash.harvard.edu/news/article/how-smart-city-barcelona-brought-the-internet-of-things-to-life-789>.
- Aitoro, Jill R. "Defining Privacy Protection by Acknowledging What It's Not." *Federal Times*, March 8, 2016. <http://www.federaltimes.com/story/government/interview/one-one/2016/03/08/defining-privacy-protection-acknowledging-what-s-not/81464556/>.
- Alexander, Michelle. *The New Jim Crow: Mass Incarceration in the Age of Colorblindness*. New York: New Press, 2012.
- Altshuler, Alan. *The Urban Transportation System: Politics & Policy Innovations*. Cambridge, MA: MIT Press, 1981.
- American Civil Liberties Union. "Community Control over Police Surveillance" (2018). <https://www.aclu.org/issues/privacy-technology/surveillance-technologies/community-control-over-police-surveillance>.
- Anderson, Chris. "The End of Theory: The Data Deluge Makes the Scientific Method Obsolete." *Wired*, June 23, 2008. <https://www.wired.com/2008/06/pb-theory/>.
- Anderson, Elizabeth S. 1999. "What Is the Point of Equality?" *Ethics* 109, no. 2 (1999): 287–337.
- Angwin, Julia, Jeff Larson, Surya Mattu, and Lauren Kirchner. "Machine Bias." *ProPublica*, May 23, 2016. <https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal-sentencing>.
- Aquilina, Kimberly M. "50 US Cities Pen Letter to FCC Demanding Net Neutrality, Democracy." *Metro*, July 12, 2017. <https://www.metro.us/news/local-news/net-neutrality-50-cities-letter-fcc-democracy>.
- Array of Things. "Array of Things" (2016). <http://arrayofthings.github.io/>.

Array of Things. "Array of Things Operating Policies" (August 15, 2016). <https://arrayofthings.github.io/final-policies.html>.

Array of Things. "Responses to Public Feedback" (2016). <https://arrayofthings.github.io/policy-responses.html>.

Asher, Jeff, and Rob Arthur. "Inside the Algorithm That Tries to Predict Gun Violence in Chicago." *New York Times*, June 13, 2017. <https://www.nytimes.com/2017/06/13/upshot/what-an-algorithm-reveals-about-life-on-chicagos-high-risk-list.html>.

Atkinson, Craig, dir. *Do Not Resist*. Vanish Films, 2016.

Azemati, Hanna, and Christina Grover-Roybal. "Shaking Up the Routine: How Seattle Is Implementing Results-Driven Contracting Practices to Improve Outcomes for People Experiencing Homelessness." Harvard Kennedy School Government Performance Lab (September 2016). [http://govlab.hks.harvard.edu/files/siblab/files/seattle\\_rdc\\_policy\\_brief\\_final.pdf](http://govlab.hks.harvard.edu/files/siblab/files/seattle_rdc_policy_brief_final.pdf).

Backstrom, Lars, Eric Sun, and Cameron Marlow. "Find Me If You Can: Improving Geographical Prediction with Social and Spatial Proximity." Paper presented at the Proceedings of the 19th International Conference on World Wide Web, Raleigh, NC, April 2010.

Badger, Emily. "Pave Over the Subway? Cities Face Tough Bets on Driverless Cars." *New York Times*, July 20, 2018. <https://www.nytimes.com/2018/07/20/upshot/driverless-cars-vs-transit-spending-cities.html>.

Baker, Al, J. David Goodman and Benjamin Mueller. "Beyond the Chokehold: The Path to Eric Garner's Death." *New York Times*, June 13, 2015. <https://www.nytimes.com/2015/06/14/nyregion/eric-garner-police-chokehold-staten-island.html>.

Baldwin, James. *Conversations with James Baldwin*. Edited by Fred L. Standley and Louis H. Pratt. Jackson: University Press of Mississippi, 1989.

Bauman, Matthew J., et al. "Reducing Incarceration through Prioritized Interventions." In *COMPASS '18: Proceedings of the 1st ACM SIGCAS Conference on Computing and Sustainable Societies*. 2018.

Baumgardner, Kinder. "Beyond Google's Cute Car: Thinking Through the Impact of Self-Driving Vehicles on Architecture." *Cite: The Architecture + Design Review of Houston* (2015): 36–43.

Bayley, David H. *Police for the Future*. New York: Oxford University Press, 1996.

Beekman, Daniel, and Jack Broom. "Mayor, County Exec Declare 'State of Emergency' over Homelessness." *Seattle Times*, January 31, 2016. <http://www.seattletimes.com/seattle-news/politics/mayor-county-exec-declare-state-of-emergency-over-homelessness/>.

Bell, Monica C. "Police Reform and the Dismantling of Legal Estrangement." *Yale Law Journal* 126 (2017): 2054–2150.

Berman, Marshall. "Take It to the Streets: Conflict and Community in Public Space." *Dissent* 33, no. 4 (1986): 476–485.

Bertrand, Marianne, and Sendhil Mullainathan. "Are Emily and Greg More Employable Than Lakisha and Jamal? A Field Experiment on Labor Market Discrimination." *American Economic Review* 94, no. 4 (2004): 991–1013.

Bibbins, J. Rowland. "Traffic-Transportation Planning and Metropolitan Development." *ANNALS of the American Academy of Political and Social Science* 116, no. 1 (1924): 205–214.

Bliss, Laura. "Columbus Now Says 'Smart' Rides for Vulnerable Moms Are Coming." *CityLab* (December 1, 2017). <https://www.citylab.com/transportation/2017/12/columbus-now-says-smart-rides-for-vulnerable-moms-are-coming/547013/>.

Bliss, Laura. "Who Wins When a City Gets Smart?" *CityLab* (November 1, 2017). <https://www.citylab.com/transportation/2017/11/when-a-smart-city-doesnt-have-all-the-answers/542976/>.

Bonczar, Thomas P. "Prevalence of Imprisonment in the U.S. Population, 1974–2001." *Bureau of Justice Statistics Special Report* (2003). <https://www.bjs.gov/content/pub/pdf/piusp01.pdf>.

Bond, Robert M., Christopher J. Fariss, Jason J. Jones, Adam D. I. Kramer, Cameron Marlow, Jaime E. Settle, and James H. Fowler. "A 61-Million-Person Experiment in Social Influence and Political Mobilization." *Nature* 489, no. 7415 (2012): 295–298.

Bond-Graham, Darwin, and Ali Winston. "All Tomorrow's Crimes: The Future of Policing Looks a Lot Like Good Branding." *SF Weekly*, October 30, 2013. <http://archives.sfweekly.com/sanfrancisco/all-tomorrows-crimes-the-future-of-policing-looks-a-lot-like-good-branding/>.

Boston, City of, Mayor's Office of New Urban Mechanics. "Boston Smart City Playbook" (2016). <https://monum.github.io/playbook/>.

Boston, City of, Mayor's Office of New Urban Mechanics. "Civic Research Agenda" (March 15, 2018). <https://www.boston.gov/departments/new-urban-mechanics/civic-research-agenda>.

Brauneis, Robert, and Ellen P. Goodman. "Algorithmic Transparency for the Smart City." *Yale Journal of Law and Technology* 20 (2018): 103–176.

Braxton, Karissa. "City's Homeless Response Investments Are Housing More People." *City of Seattle Human Interests Blog* (May 31, 2018). <http://humaninterests.seattle.gov/2018/05/31/citys-homeless-response-investments-are-housing-more-people/>.

Brazel, Rosalind. "City of Seattle Hires Ginger Armbruster as Chief Privacy Officer." *Tech Talk Blog* (July 11, 2017). <http://techtalk.seattle.gov/2017/07/11/city-of-seattle-hires-ginger-armbruster-as-chief-privacy-officer/>.

"Brigade." <https://www.brigade.com/>.

Brustein, Joshua. "This Guy Trains Computers to Find Future Criminals." *Bloomberg* (2016). <https://www.bloomberg.com/features/2016-richard-berk-future-crime/>.

Buell, Ryan W., Ethan Porter, and Michael I. Norton. "Surfacing the Submerged State: Operational Transparency Increases Trust in and Engagement with Government." Harvard Business School Working Paper No. 14-034 (November 2013; rev. March 2018).

"Buggy Capital of the World." *Columbus Dispatch*, Blog (July 29, 2015). <http://www.dispatch.com/content/blogs/a-look-back/2015/07/buggy-capital-of-the-world.html>.

Burns, Haskel. "Ordinance Looks at Police Surveillance Equipment." *Hattiesburg American*, October 28, 2016. <https://www.hattiesburgamerican.com/story/news/local/hattiesburg/2016/10/28/ordinance-looks-police-surveillance-equipment/92899430/>.

Burns, Nancy, Kay Lehman Schlozman, and Sidney Verba. *The Private Roots of Public Action: Gender, Equality, and Political Participation*. Cambridge, MA: Harvard University Press, 2001.

Butler, Paul. *Chokehold: Policing Black Men*. New York: New Press, 2017.

Calthorpe Associates, Mid-Ohio Regional Planning Commission, Columbus District Council of the Urban Land Institute, and Columbus2020. "insight2050 Scenario Results Report" (February 26, 2015). [http://getinsight2050.org/wp-content/uploads/2015/03/2015\\_02\\_26-insight2050-Report.pdf](http://getinsight2050.org/wp-content/uploads/2015/03/2015_02_26-insight2050-Report.pdf).

Canigual, Albert. "In Barcelona, Technology Is a Means to an End for a Smart City." *GreenBiz* (September 12, 2017). <https://www.greenbiz.com/article/barcelona-technology-means-end-smart-city>.

Caro, Robert A. *The Power Broker: Robert Moses and the Fall of New York*. 1974. Repr., New York: Random House, 2015.

Center for Data Science and Public Policy, University of Chicago. "Data-Driven Justice Initiative: Identifying Frequent Users of Multiple Public Systems for More Effective Early Assistance" (2018). <https://dsapp.uchicago.edu/projects/criminal-justice/data-driven-justice-initiative/>.

Chamberlain, Allison T., Jonathan D. Lehnert, and Ruth L. Berkelman. "The 2015 New York City Legionnaires' Disease Outbreak: A Case Study on a History-Making Outbreak." *Journal of Public Health Management and Practice* 23, no. 4 (2017): 410–416.

Chambers, John, and Wim Elfrink. "The Future of Cities." *Foreign Affairs*, October 31, 2014. <https://www.foreignaffairs.com/articles/2014-10-31/future-cities>.

Chammah, Maurice. "Policing the Future." *The Verge* (2016). <http://www.theverge.com/2016/2/3/10895804/st-louis-police-hunchlab-predictive-policing-marshall-project>.

Cheung, Adora. "New Cities." *Y Combinator Blog* (June 27, 2016). <https://blog.ycombinator.com/new-cities/>.

Chicago, City of. "Food Inspection Forecasting" (2017). <https://chicago.github.io/food-inspections-evaluation/>.

Chiel, Ethan. "Why the D.C. Government Just Publicly Posted Every D.C. Voter's Address Online." *Splinter*, June 14, 2016. <https://splinternews.com/why-the-d-c-government-just-publicly-posted-every-d-c-1793857534>.

Chin, Josh. "About to Break the Law? Chinese Police Are Already on to You." *Wall Street Journal*, February 27, 2018. <https://www.wsj.com/articles/china-said-to-deploy-big-data-for-predictive-policing-in-xinjiang-1519719096>.

Chin, Josh, and Clément Bürge. "Twelve Days in Xinjiang: How China's Surveillance State Overwhelms Daily Life." *Wall Street Journal*, December 19, 2017. <https://www.wsj.com/articles/twelve-days-in-xinjiang-how-chinas-surveillance-state-overwhelms-daily-life-1513700355>.

Civic Analytics Network. "An Open Letter to the Open Data Community." *Data-Smart City Solutions*, March 3, 2017. <https://datasmart.ash.harvard.edu/news/article/an-open-letter-to-the-open-data-community-988>.

Claypool, Henry, Amitai Bin-Nun, and Jeffrey Gerlach. "Self-Driving Cars: The Impact on People with Disabilities." *The Ruderman White Paper* (January 2017). [http://secureenergy.org/wp-content/uploads/2017/01/Self-Driving-Cars-The-Impact-on-People-with-Disabilities\\_FINAL.pdf](http://secureenergy.org/wp-content/uploads/2017/01/Self-Driving-Cars-The-Impact-on-People-with-Disabilities_FINAL.pdf).

Columbus, City of. "Columbus Smart City Application" (2016). [https://www.transportation.gov/sites/dot.gov/files/docs/Columbus OH Vision Narrative.pdf](https://www.transportation.gov/sites/dot.gov/files/docs/Columbus%20OH%20Vision%20Narrative.pdf).

Columbus, City of. "Linden Infant Mortality Profile" (2018). [http://celebrateone.info/wp-content/uploads/2018/03/Linden\\_IMProfile\\_9.7.pdf](http://celebrateone.info/wp-content/uploads/2018/03/Linden_IMProfile_9.7.pdf).

Cushing, Tim. "'Predictive Policing' Company Uses Bad Stats, Contractually-Obligated Shills to Tout Unproven 'Successes.'" *Techdirt*, November 1, 2013. <https://www.techdirt.com/articles/20131031/13033125091/predictive-policing-company-uses-bad-stats-contractually-obligated-shills-to-tout-unproven-successes.shtml>.

Cutler, Kim-Mai, and Josh Constine. "Sean Parker's Brigade App Enters Private Beta as a Dead-Simple Way of Taking Political Positions." *TechCrunch*, June 17, 2015. <https://techcrunch.com/2015/06/17/sean-parker-brigade/>.

Daly, Jimmy. "10 Cities with 311 iPhone Applications." *StateTech*, August 10, 2012. <https://statetechmagazine.com/article/2012/08/10-cities-311-iphone-applications>.

Dastin, Jeffrey. "Amazon Scraps Secret AI Recruiting Tool that Showed Bias Against Women." *Reuters*, October 9, 2018. <https://www.reuters.com/article/us-amazon-com-jobs-automation-insight/amazon-scraps-secret-ai-recruiting-tool-that-showed-bias-against-women-idUSKCN1MK08G>.

Data-Driven Justice Initiative. "Data-Driven Justice Playbook" (2016). [http://www.naco.org/sites/default/files/documents/DDJ Playbook Discussion Draft 12.8.16\\_1.pdf](http://www.naco.org/sites/default/files/documents/DDJ_Playbook_Discussion_Draft_12.8.16_1.pdf).

"Data-Driven Research, Policy, and Practice: Friday Opening Remarks." Boston Area Research Initiative, March 10, 2017. <https://www.youtube.com/watch?v=cRINIFFBHB0>.

DataSF. "Data Quality" (2017). <https://datasf.org/resources/data-quality/>.

DataSF. "Data Standards Reference Handbook" (2018). <https://datasf.gitbooks.io/draft-publishing-standards/>.

DataSF. "DataScienceSF" (2017). <https://datasf.org/science/>.

DataSF. "DataSF in Progress" (2018). <https://datasf.org/progress/>.

DataSF. "Eviction Alert System" (2018). <https://datasf.org/showcase/datascience/eviction-alert-system/>.

DataSF. "Keeping Moms and Babies in Nutrition Program" (2018). <https://datasf.org/showcase/datascience/keeping-moms-and-babies-in-nutrition-program/>.

de Montjoye, Yves-Alexandre, César A. Hidalgo, Michel Verleysen, and Vincent D. Blondel. "Unique in the Crowd: The Privacy Bounds of Human Mobility." *Scientific Reports* 3, art. no. 1376 (2013). <https://doi.org/10.1038/srep01376>.

de Montjoye, Yves-Alexandre, Laura Radaelli, Vivek Kumar Singh, and Alex "Sandy" Pentland. "Unique in the Shopping Mall: On the Reidentifiability of Credit Card Metadata." *Science* 347, no. 6221 (2015): 536–539.

De Tocqueville, Alexis. *Democracy in America*. Edited by Max Lerner and J.-P. Mayer, trans. George Lawrence. 2 vols. New York: Harper and Row, 1966.

Desmond, Matthew, Andrew V. Papachristos, and David S. Kirk. "Police Violence and Citizen Crime Reporting in the Black Community." *American Sociological Review* 81, no. 5 (2016): 857–876.

Detroit Future City. "2012 Detroit Strategic Framework Plan" (2012). [https://detroitfuturecity.com/wp-content/uploads/2014/12/DFC\\_Full\\_2nd.pdf](https://detroitfuturecity.com/wp-content/uploads/2014/12/DFC_Full_2nd.pdf).

Dewey, John. *Logic: The Theory of Inquiry*. New York: H. Holt and Company, 1938.

Diehl, Phil. "Malware Blamed for City's Data Breach." *San Diego Tribune*, September 12, 2017. <http://www.sandiegouniontribune.com/communities/north-county/sd-no-malware-letter-20170912-story.html>.

Doctoroff, Daniel L. "Reimagining Cities from the Internet Up." Medium: Sidewalk Talk (November 30, 2016). <https://medium.com/sidewalk-talk/reimagining-cities-from-the-internet-up-5923d6be63ba>.

Downs, Anthony. "The Law of Peak-Hour Expressway Congestion." *Traffic Quarterly* 16, no. 3 (1962): 393–409.

Downs, Anthony. *Still Stuck in Traffic: Coping with Peak-Hour Traffic Congestion*. Washington, DC: Brookings Institution Press, 2005.

Downs, Anthony. "Traffic: Why It's Getting Worse, What Government Can Do." Brookings Institution Policy Brief #128 (January 2004).

Duranton, Gilles, and Matthew A. Turner. "The Fundamental Law of Road Congestion: Evidence from US Cities." *American Economic Review* 101, no. 6 (2011): 2616–2652.

Eagle, Nathan, Alex Sandy Pentland, and David Lazer. "Inferring Friendship Network Structure by Using Mobile Phone Data." *Proceedings of the National Academy of Sciences* 106, no. 36 (2009): 15274–15278.

Efrati, Amir. "Uber Finds Deadly Accident Likely Caused by Software Set to Ignore Objects on Road." *The Information*, May 7, 2018. <https://www.theinformation.com/articles/uber-finds-deadly-accident-likely-caused-by-software-set-to-ignore-objects-on-road>.

Engelhardt, Will, Risë Haneberg, Rob MacDougall, Chris Schneweis, and Imran Chaudhry. "Sharing Information between Behavioral Health and Criminal Justice Systems." Council of State Governments Justice Center (March 31, 2016). <https://csgjusticecenter.org/wp-content/uploads/2016/03/JMHCP-Info-Sharing-Webinar.pdf>.

Eubanks, Virginia. *Automating Inequality: How High-Tech Tools Profile, Police, and Punish the Poor*. New York: St. Martin's Press, 2018.

Eubanks, Virginia. "Technologies of Citizenship: Surveillance and Political Learning in the Welfare System." In *Surveillance and Security: Technological Politics and Power in Everyday Life*, edited by Torin Monahan. New York: Routledge, 2006.

Fagnant, Daniel J., and Kara Kockelman. "Preparing a Nation for Autonomous Vehicles: Opportunities, Barriers and Policy Recommendations." *Transportation Research Part A: Policy and Practice* 77 (2015): 167–181.

Falconer, Gordon, and Shane Mitchell. "Smart City Framework: A Systematic Process for Enabling Smart+Connected Communities" (2012). [https://www.cisco.com/c/dam/en\\_us/about/ac79/docs/ps/motm/Smart-City-Framework.pdf](https://www.cisco.com/c/dam/en_us/about/ac79/docs/ps/motm/Smart-City-Framework.pdf).

Fayyad, Abdallah. "The Criminalization of Gentrifying Neighborhoods." *The Atlantic*, December 20, 2017. <https://www.theatlantic.com/politics/archive/2017/12/the-criminalization-of-gentrifying-neighborhoods/548837/>.

Federal Trade Commission. *Data Brokers: A Call for Transparency and Accountability*. Washington, DC: Federal Trade Commission, 2014.

Feigenbaum, James J., and Andrew Hall. "How High-Income Areas Receive More Service from Municipal Government: Evidence from City Administrative Data" (2015). <https://ssrn.com/abstract=2631106>.

Feldman, Andrew, and Jason Johnson, "How Better Procurement Can Drive Better Outcomes for Cities." *Governing*, October 12, 2017. <http://www.governing.com/gov-institute/voices/col-cities-3-steps-procurement-reform-better-outcomes.html>.

Ferenstein, Greg. "Brigade: New Social Network from Facebook Co-founder Aims to 'Repair Democracy.'" *The Guardian*, June 17, 2015. <https://www.theguardian.com/media/2015/jun/17/brigade-social-network-voter-turnout-sean-parker>.

Ferenstein Wire. "Sean Parker Explains His Plans to 'Repair Democracy' with a New Social Network." *Fast Company* (2015). <https://www.fastcompany.com/3047571/sean-parker-explains-his-plans-to-repair-democracy-with-a-new-social-network>.

Ferguson, Andrew G. "The Allure of Big Data Policing." *PrawfsBlawg* (May 25, 2017). <http://prawfsblawg.blogs.com/prawfsblawg/2017/05/the-allure-of-big-data-policing.html>.

Forrest, Adam. "Detroit Battles Blight through Crowdsourced Mapping Project." *Forbes*, June 22, 2015. <https://www.forbes.com/sites/adamforrest/2015/06/22/detroit-battles-blight-through-crowdsourced-mapping-project>.

Fountain, Jane E. "Paradoxes of Public Sector Customer Service." *Governance* 14, no. 1 (2001): 55–73.

Friess, Steve. "Son of Dem Royalty Creates a Ruck.us." *Politico*, June 26, 2012. <http://www.politico.com/story/2012/06/son-of-democratic-party-royalty-creates-a-ruckus-077847>.

Fry, Christopher, and Henry Lieberman. *Why Can't We All Just Get Along?* Self-published, 2018. <https://www.whycantwe.org/>.

Fung, Archon, Hollie Russon Gilman, and Jennifer Shkabatur. "Six Models for the Internet + Politics." *International Studies Review* 15, no. 1 (2013): 30–47.

Furth, Peter. "Pedestrian-Friendly Traffic Signal Timing Policy Recommendations." *Boston City Council Committee on Parks, Recreation, and Transportation* (December 6, 2016). <http://www.northeastern.edu/peter.furth/wp-content/uploads/2016/12/Pedestrian-Friendly-Traffic-Signal-Policies-Boston.pdf>.

Garlick, Ross. "Privacy Inequality Is Coming, and It Does Not Look Pretty." *Fordham Political Review*, March 17, 2015. <http://fordhampoliticalreview.org/privacy-inequality-is-coming-and-it-does-not-look-pretty/>.



General Motors. "To New Horizons" (1939). Posted as "Futurama at 1939 NY World's Fair." <https://www.youtube.com/watch?v=sClZqfnWqmc>.

Gilliom, John. *Overseers of the Poor: Surveillance, Resistance, and the Limits of Privacy*. Chicago: University of Chicago Press, 2001.

Gilman, Hollie Russon. *Democracy Reinvented: Participatory Budgeting and Civic Innovation in America*. Washington, DC: Brookings Institution Press, 2016.

Glaser, April. "Sanctuary Cities Are Handing ICE a Map." *Slate*, March 13, 2018. <https://slate.com/technology/2018/03/how-ice-may-be-able-to-access-license-plate-data-from-sanctuary-cities-and-use-it-for-arrests.html>.

Goel, Sharad, Justin M. Rao, and Ravi Shroff. "Precinct or Prejudice? Understanding Racial Disparities in New York City's Stop-and-Frisk Policy." *Annals of Applied Statistics* 10, no. 1 (2016): 365–394.

Gordon, Eric. "Civic Technology and the Pursuit of Happiness." *Governing* (2016). <http://www.governing.com/cityaccelerator/civic-technology-and-the-pursuit-of-happiness.html>.

Gordon, Eric, and Jessica Baldwin-Philippi. "Playful Civic Learning: Enabling Lateral Trust and Reflection in Game-Based Public Participation." *International Journal of Communication* 8 (2014): 759–786.

Gordon, Eric, and Stephen Walter. "Meaningful Inefficiencies: Resisting the Logic of Technological Efficiency in the Design of Civic Systems." In *Civic Media: Technology, Design, Practice*, edited by Eric Gordon and Paul Mihailidis. Cambridge, MA: MIT Press, 2016.

Gorner, Jeremy. "With Violence Up, Chicago Police Focus on a List of Likeliest to Kill, Be Killed." *Chicago Tribune*, July 22, 2016. <http://www.chicagotribune.com/news/ct-chicago-police-violence-strategy-met-20160722-story.html>.

Graham, Thomas. "Barcelona Is Leading the Fightback against Smart City Surveillance." *Wired*, May 18, 2018. <http://www.wired.co.uk/article/barcelona-decidim-ada-colau-francesca-bria-decode>.

Green, Ben, Gabe Cunningham, Ariel Ekblaw, Paul Kominers, Andrew Linzer, and Susan Crawford. "Open Data Privacy: A Risk-Benefit, Process-Oriented Approach to Sharing and Protecting Municipal Data." *Berkman Klein Center for Internet & Society Research Publication* (2017). <http://nrs.harvard.edu/urn-3:HUL.InstRepos:30340010>.

Green, Ben, Thibaut Horel, and Andrew V. Papachristos. 2017. "Modeling Contagion through Social Networks to Explain and Predict Gunshot Violence in Chicago, 2006 to 2014." *JAMA Internal Medicine* 177, no. 3 (2017): 326–333. <https://doi.org/10.1001/jamainternmed.2016.8245>.

Greenfield, Adam. *Against the Smart City*. New York: Do Projects, 2013.

Griffin, Dominic. "'Do Not Resist' Traces the Militarization of Police with Unprecedented Access to Raids and Unrest." *Baltimore City Paper*, November 1, 2016. <http://www.citypaper.com/film/film/bcp-110216-screens-do-not-resist-20161101-story.html>.

Guynn, Jessica. "ACLU: Police Used Twitter, Facebook to Track Protests." *USA Today*, October 12, 2016. <https://www.usatoday.com/story/tech/news/2016/10/11/aclu-police-used-twitter-facebook-data-track-protesters-baltimore-ferguson/91897034/>.

Ha, Anthony. "Sean Parker: Defeating SOPA Was the 'Nerd Spring.'" *TechCrunch*, March 12, 2012. <https://techcrunch.com/2012/03/12/sean-parker-defeating-sopa-was-the-nerd-spring/>.

Halper, Evan. "Napster Co-founder Sean Parker Once Vowed to Shake Up Washington—So How's That Working Out?" *Los Angeles Times*, August 4, 2016. <http://www.latimes.com/politics/la-na-pol-sean-parker-20160804-snap-story.html>.

Han, Hahrie. *How Organizations Develop Activists: Civic Associations and Leadership in the 21st Century*. New York: Oxford University Press, 2014.

Harcourt, Bernard E. "Risk as a Proxy for Race: The Dangers of Risk Assessment." *Federal Sentencing Reporter* 27, no. 4 (2015): 237–243.

Hartnett, Kevin. "Bye-bye Traffic Lights." *Boston Globe*, March 28, 2016. <https://www.bostonglobe.com/ideas/2016/03/28/bye-bye-traffic-lights/8HSV9DZa4qPC1tH4zQ4pTO/story.html>.

Henry, Jason. "Los Angeles Police, Sheriff's Scan over 3 Million License Plates a Week." *San Gabriel Valley Tribune*, August 26, 2014. <https://www.sgvtribune.com/2014/08/26/los-angeles-police-sheriffs-scan-over-3-million-license-plates-a-week/>.

Herrold, George. "City Planning and Zoning." *Canadian Engineer* 45 (1923): 128–130.

Herrold, George. "The Parking Problem in St. Paul." *Nation's Traffic* 1 (July 1927): 28–30, 47–48.

Herz, Ansel. "How the Seattle Police Secretly—and Illegally—Purchased a Tool for Tracking Your Social Media Posts." *The Stranger*, September 28, 2016. <https://www.thestranger.com/news/2016/09/28/24585899/how-the-seattle-police-secretlyand-illegallypurchased-a-tool-for-tracking-your-social-media-posts>.

Hitachi. "City of Boston: Smart City RFI Response" (2017). [https://drive.google.com/file/d/0B\\_QckxNE\\_FoEeVJ5amJVT3NEZXC](https://drive.google.com/file/d/0B_QckxNE_FoEeVJ5amJVT3NEZXC).

Holston, James. *The Modernist City: An Anthropological Critique of Brasilia*. Chicago: University of Chicago Press, 1989.

- Hook, Leslie. "Alphabet Looks for Land to Build Experimental City." *Financial Times*, September 19, 2017. <https://www.ft.com/content/22b45326-9d47-11e7-9a86-4d5a475ba4c5>.
- Howard, Ebenezer. *Garden Cities of To-Morrow*. London: Swan Sonnenschein, 1902.
- Hughes, John, dir. *Ferris Bueller's Day Off*. Paramount Pictures, 1986.
- HunchLab. "Next Generation Predictive Policing." <https://www.hunchlab.com/>.
- Hunt, Priscillia, Jessica Saunders, and John S. Hollywood. *Evaluation of the Shreveport Predictive Policing Experiment*. RR-531-NIJ. Santa Monica, CA: RAND Corporation, 2014.
- Hvistendahl, Mara. "Can 'Predictive Policing' Prevent Crime Before It Happens?" *Science*, September 28, 2016. <http://www.sciencemag.org/news/2016/09/can-predictive-policing-prevent-crime-it-happens>.
- IBM. "Predictive Analytics: Police Use Analytics to Reduce Crime" (2012). <https://www.youtube.com/watch?v=iY3WRvXVogo>.
- IBM. "What Is a Self-Service Government?" *The Atlantic* [advertising]. <http://www.theatlantic.com/sponsored/ibm-transformation/what-is-a-self-service-government/248/>.
- Jacobs, Jane. *The Death and Life of Great American Cities*. 1961. Repr., New York: Vintage Books, 1992.
- Jaffe, Eric. "How Are Those Cities of the Future Coming Along?" *CityLab* (September 11, 2013). <https://www.citylab.com/life/2013/09/how-are-those-cities-future-coming-along/6855/>.
- James, Letitia, and Ben Kallos. "New York City Digital Divide Fact Sheet." Press release, March 16, 2017.
- Jenkins, J. L. "Illegal Parking Hinders Work of Stop-Go Lights; Pedestrian Dangers Grow as Loop Speeds Up." *Chicago Tribune*, February 10, 1926.
- Joh, Elizabeth E. "The Undue Influence of Surveillance Technology Companies on Policing." *New York University Law Review* 92 (2017): 101–130.
- Johnston, Casey. "Denied for That Loan? Soon You May Thank Online Data Collection." *ArsTechnica* (2013). <https://arstechnica.com/business/2013/10/denied-for-that-loan-soon-you-may-thank-online-data-collection/>.
- Joseph, George. "Exclusive: Feds Regularly Monitored Black Lives Matter Since Ferguson." *The Intercept*, July 24, 2015. <https://theintercept.com/2015/07/24/documents-show-department-homeland-security-monitoring-black-lives-matter-since-ferguson/>.

Jouvenal, Justin. "The New Way Police Are Surveilling You: Calculating Your Threat 'Score.'" *Washington Post*, January 10, 2016. [https://www.washingtonpost.com/local/public-safety/the-new-way-police-are-surveilling-you-calculating-your-threat-score/2016/01/10/e42bccac-8e15-11e5-baf4-bdf37355da0c\\_story.html](https://www.washingtonpost.com/local/public-safety/the-new-way-police-are-surveilling-you-calculating-your-threat-score/2016/01/10/e42bccac-8e15-11e5-baf4-bdf37355da0c_story.html).

Jouvenal, Justin. "Police Are Using Software to Predict Crime. Is It a 'Holy Grail' or Biased against Minorities?" *Washington Post*, November 17, 2016. [https://www.washingtonpost.com/local/public-safety/police-are-using-software-to-predict-crime-is-it-a-holy-grail-or-biased-against-minorities/2016/11/17/525a6649-0472-440a-aae1-b283aa8e5de8\\_story.html](https://www.washingtonpost.com/local/public-safety/police-are-using-software-to-predict-crime-is-it-a-holy-grail-or-biased-against-minorities/2016/11/17/525a6649-0472-440a-aae1-b283aa8e5de8_story.html).

Kang, Cecilia. "Unemployed Detroit Residents Are Trapped by a Digital Divide." *New York Times*, May 23, 2016. <https://www.nytimes.com/2016/05/23/technology/unemployed-detroit-residents-are-trapped-by-a-digital-divide.html>.

Kang, Cecilia. "Where Self-Driving Cars Go to Learn." *New York Times*, November 11, 2017. <https://www.nytimes.com/2017/11/11/technology/arizona-tech-industry-favorite-self-driving-hub.html>.

Kaste, Martin. "Orlando Police Testing Amazon's Real-Time Facial Recognition." *National Public Radio*, May 22, 2018. <https://www.npr.org/2018/05/22/613115969/orlando-police-testing-amazons-real-time-facial-recognition>.

Kayyali, Dia. "The History of Surveillance and the Black Community." *Electronic Frontier Foundation* (February 13, 2014). <https://www.eff.org/deeplinks/2014/02/history-surveillance-and-black-community>.

Kiley, Brendan, and Matt Fikse-Verkerk. "You Are a Rogue Device." *The Stranger*, November 6, 2013. <http://www.thestranger.com/seattle/you-are-a-rogue-device/Content?oid=18143845>.

Kirk, Mimi. "Why Singapore Will Get Self-Driving Cars First." *CityLab* (August 3, 2016). <https://www.citylab.com/transportation/2016/08/why-singapore-leads-in-self-driving-cars/494222/>.

Klarreich, Erica. "Privacy by the Numbers: A New Approach to Safeguarding Data." *Quanta Magazine*, December 10, 2012. <https://www.quantamagazine.org/a-mathematical-approach-to-safeguarding-private-data-20121210/>.

Kleinberg, Jon, Sendhil Mullainathan, and Manish Raghavan. "Inherent Trade-Offs in the Fair Determination of Risk Scores." *arXiv.org* (2016). <https://arxiv.org/abs/1609.05807>.

Klockars, Carl B. "Some Really Cheap Ways of Measuring What Really Matters." In *Measuring What Matters: Proceedings from the Policing Research Institute Meetings*. Washington, DC: National Institute of Justice, 1999.

Knight Foundation. "NetGain Internet of Things Conference" (2017). <https://www.youtube.com/watch?v=29u1C4Z6PR4>.

Kofman, Ava. "Real-Time Face Recognition Threatens to Turn Cops' Body Cameras into Surveillance Machines." *The Intercept*, March 22, 2017. <https://theintercept.com/2017/03/22/real-time-face-recognition-threatens-to-turn-cops-body-cameras-into-surveillance-machines/>.

Kosinski, Michal, David Stillwell, and Thore Graepel. "Private Traits and Attributes Are Predictable from Digital Records of Human Behavior." *Proceedings of the National Academy of Sciences* 110, no. 15 (2013): 5802–5805.

Kramer, Adam D. I., Jamie E. Guillory, and Jeffrey T. Hancock. "Experimental Evidence of Massive-Scale Emotional Contagion through Social Networks." *Proceedings of the National Academy of Sciences* 111, no. 24 (June 17, 2014): 8788–8790.

Lantos-Swett, Chante. "Leveraging Technology to Improve Participation: Textizen and Oregon's Kitchen Table." *Challenges to Democracy*, Blog (April 4, 2016). <http://www.challengestodemocracy.us/home/leveraging-technology-to-improve-participation-textizen-and-oregons-kitchen-table/>.

Larson, Selena. "Uber's Massive Hack: What We Know." *CNN*, November 22, 2017. <http://money.cnn.com/2017/11/22/technology/uber-hack-consequences-cover-up/index.html>.

Latour, Bruno. *The Pasteurization of France*. Translated by Alan Sheridan and John Law. Cambridge, MA: Harvard University Press, 1993.

Latour, Bruno. "Tarde's Idea of Quantification." In *The Social After Gabriel Tarde: Debates and Assessments*, edited by Mattei Candea. London: Routledge, 2010.

Lauper, Cyndi. "Girls Just Want To Have Fun (Official Video)" (1983). <https://www.youtube.com/watch?v=PIb6AZdTr-A>.

Laura and John Arnold Foundation. "Laura and John Arnold Foundation to Continue Data-Driven Criminal Justice Effort Launched under the Obama Administration." Press release, January 23, 2017. <http://www.arnoldfoundation.org/laura-john-arnold-foundation-continue-data-driven-criminal-justice-effort-launched-obama-administration/>.

Lavigne, Sam, Brian Clifton, and Francis Tseng. "Predicting Financial Crime: Augmenting the Predictive Policing Arsenal." *The New Inquiry* (2017). <https://whitecollar.thenewinquiry.com/static/whitepaper.pdf>.

Le Corbusier. *Aircraft: The New Vision*. New York: Studio Publications, 1935.

Le Corbusier. *The Radiant City: Elements of a Doctrine of Urbanism to Be Used as the Basis of Our Machine-Age Civilization*. New York: Orion Press, 1964.

Leadership Conference on Civil and Human Rights, and Upturn. "Police Body Worn Cameras: A Policy Scorecard" (November 2017). <https://www.bwscscorecard.org/>.

Lerman, Jonas. "Big Data and Its Exclusions." *Stanford Law Review* 66 (2013): 55–63.

Liang, Annabelle, and Dee-Ann Durbin. "World's First Self-Driving Taxis Debut in Singapore." *Bloomberg*, August 25, 2016. <https://www.bloomberg.com/news/articles/2016-08-25/world-s-first-self-driving-taxis-debut-in-singapore>.

Liebman, Jeff. "Transforming the Culture of Procurement in State and Local Government." Interview by Andy Feldman, *Gov Innovator* podcast (April 20, 2017). [http://govinnovator.com/jeffrey\\_liebman\\_2017/](http://govinnovator.com/jeffrey_liebman_2017/).

LinkNYC. "Find a Link." <https://www.link.nyc/find-a-link.html>.

LinkNYC. "Privacy Policy" (March 17, 2017). <https://www.link.nyc/privacy-policy.html>.

Linn, Denise, and Glynis Startz. "Array of Things Civic Engagement Report" (August 2016). <https://arrayofthings.github.io/engagement-report.html>.

Lipsky, Michael. *Street-Level Bureaucracy: Dilemmas of the Individual in Public Services*. 30th anniversary ed. New York: Russell Sage Foundation, 2010.

Living PlanIT. "Living PlanIT—Boston Smart City RFI" (January 2017). [https://drive.google.com/file/d/0B\\_QckxNE\\_FoEVEUfTFB4SDRhC00](https://drive.google.com/file/d/0B_QckxNE_FoEVEUfTFB4SDRhC00).

Lomas, Natasha. "How 'Anonymous' Wifi Data Can Still Be a Privacy Risk." *TechCrunch*, October 7, 2017. <https://techcrunch.com/2017/10/07/how-anonymous-wifi-data-can-still-be-a-privacy-risk/>.

Lowry, Stella, and Gordon Macpherson. "A Blot on the Profession." *British Medical Journal* 296, no. 6623 (1988): 657–658.

Lubell, Sam. "Here's How Self-Driving Cars Will Transform Your City." *Wired*, October 21, 2016. <https://www.wired.com/2016/10/heres-self-driving-cars-will-transform-city/>.

Lum, Kristian. "Predictive Policing Reinforces Police Bias." Human Rights Data Analysis Group (2016). <https://hrdag.org/2016/10/10/predictive-policing-reinforces-police-bias/>.

Lum, Kristian, and William Isaac. "To Predict and Serve?" *Significance* 13, no. 5 (2016): 14–19.

Madden, Mary, Michele E. Gilman, Karen Levy, and Alice E. Marwick. "Privacy, Poverty and Big Data: A Matrix of Vulnerabilities for Poor Americans." *Washington University Law Review* 95 (2017): 53–125.

Marcuse, Peter. *Robert Moses and Public Housing: Contradiction In, Contradiction Out*. [New York: P. Marcuse], 1989.

Mashariki, Amen Ra. "NYC Data Analytics." Presentation at Esri Senior Executive Summit, 2017. <https://www.youtube.com/watch?v=ws8EQg5YlY>.

"Massachusetts Ave & Columbus Ave." Walk Score (2018). <https://www.walkscore.com/score/columbus-ave-and-massachusetts-ave-boston>.

McFarland, Matt. "Chicago Gets Serious about Tracking Air Quality and Traffic Data." *CNN*, August 29, 2016. <http://money.cnn.com/2016/08/29/technology/chicago-sensors-data/index.html>.

Menino, Thomas M. "Inaugural Address" (January 4, 2010). [https://www.cityofboston.gov/TridionImages/2010%20Thomas%20M%20%20Menino%20Inaugural%20final\\_tcm1-4838.pdf](https://www.cityofboston.gov/TridionImages/2010%20Thomas%20M%20%20Menino%20Inaugural%20final_tcm1-4838.pdf).

Metcalf, Jacob. "Ethics Review for Pernicious Feedback Loops." *Medium: Data & Society: Points* (November 7, 2016). <https://points.datasociety.net/ethics-review-for-pernicious-feedback-loops-9a7ede4b610e>.

Metz, David. *The Limits to Travel: How Far Will You Go?* New York: Routledge, 2012.

"Middlesex Police Discuss Data-Driven Justice Initiative." *Wicked Local Arlington*, December 30, 2016. <http://arlington.wickedlocal.com/news/20161230/middlesex-police-discuss-data-driven-justice-initiative>.

Misa, Thomas J. "Controversy and Closure in Technological Change. Constructing 'Steel.'" In *Shaping Technology / Building Society: Studies in Sociotechnical Change*, edited by Wiebe E. Bijker and John Law. Cambridge, MA: MIT Press, 1992.

Morozov, Evgeny. *To Save Everything, Click Here: The Folly of Technological Solutionism*. New York: PublicAffairs, 2014.

Moskos, Peter. *Cop in the Hood: My Year Policing Baltimore's Eastern District*. Princeton, NJ: Princeton University Press, 2008.

Murgado, Amaury. "Developing a Warrior Mindset." *POLICE Magazine*, May 24, 2012. <http://www.policemag.com/channel/patrol/articles/2012/05/warrior-mindset.aspx>.

National Association of Counties. "Data-Driven Justice: Disrupting the Cycle of Incarceration" [2015]. <http://www.naco.org/resources/signature-projects/data-driven-justice>.

National Association of Counties. "Mental Health and Criminal Justice Case Study: Johnson County, Kan." (2015). [http://www.naco.org/sites/default/files/documents/Johnson County Mental Health and Jails Case Study\\_FINAL.pdf](http://www.naco.org/sites/default/files/documents/Johnson%20County%20Mental%20Health%20and%20Jails%20Case%20Study_FINAL.pdf).

National Center for Statistics and Analysis, National Highway Traffic Safety Administration. "Critical Reasons for Crashes Investigated in the National Motor Vehicle Crash Causation Survey." *Traffic Safety Facts: Crash Stats*, Report No. DOT HS 812 115 (February 2015).

National Center for Statistics and Analysis, National Highway Traffic Safety Administration. "2015 Motor Vehicle Crashes: Overview." Traffic Safety Facts Research Note, Report No. DOT HS 812 318 (August 2016).

National League of Cities. "Trends in Smart City Development" (2016). [http://www.nlc.org/sites/default/files/2017-01/Trends in Smart City Development.pdf](http://www.nlc.org/sites/default/files/2017-01/Trends%20in%20Smart%20City%20Development.pdf).

Needham, Catherine. *Citizen-Consumers: New Labour's Marketplace Democracy*. London: Catalyst, 2003.

Needham, Catherine E. "Customer Care and the Public Service Ethos." *Public Administration* 84, no. 4 (2006): 845–860.

New York City Council. "Int 1696-2017: Automated Decision Systems Used by Agencies." (2017). <http://legistar.council.nyc.gov/LegislationDetail.aspx?ID=3137815&GUID=437A6A6D-62E1-47E2-9C42-461253F9C6D0>.

New York City Council. "Transcript of the Minutes of the Committee on Technology" (October 16, 2017). <http://legistar.council.nyc.gov/View.ashx?M=F&ID=5522569&GUID=DFECA4F2-E157-42AB-B598-BA3A8185E3FF>.

New York City Mayor's Office of Operations. "Hurricane Sandy Response." *NYC Customer Service Newsletter* 5, no. 2 (February 2013). [https://www1.nyc.gov/assets/operations/downloads/pdf/nyc\\_customer\\_service\\_newsletter\\_volume\\_5\\_issue\\_2.pdf](https://www1.nyc.gov/assets/operations/downloads/pdf/nyc_customer_service_newsletter_volume_5_issue_2.pdf).

New York City Office of the Mayor. "Mayor de Blasio Announces Public Launch of LinkNYC Program, Largest and Fastest Free Municipal Wi-Fi Network in the World" (February 18, 2016). <http://www1.nyc.gov/office-of-the-mayor/news/184-16/mayor-de-blasio-public-launch-linknyc-program-largest-fastest-free-municipal#/0>.

New York Civil Liberties Union. "City's Public Wi-Fi Raises Privacy Concerns" (2016). <https://www.nyclu.org/en/press-releases/nyclu-citys-public-wi-fi-raises-privacy-concerns>.

New York Times Editorial Board. "The Racism at the Heart of Flint's Crisis." *New York Times*, March 25, 2016. <https://www.nytimes.com/2016/03/25/opinion/the-racism-at-the-heart-of-flints-crisis.html>.

Newsom, Gavin, and Lisa Dickey. *Citizenville: How to Take the Town Square Digital and Reinvent Government*. New York: Penguin, 2014.

"Nine Additional Cities Join Johnson County's Co-responder Program." Press release, Johnson County, Kansas, July 18, 2016. <https://jocogov.org/press-release/nine-additional-cities-join-johnson-county-s-co-responder-program>.

Norton, Peter D. *Fighting Traffic: The Dawn of the Motor Age in the American City*. Cambridge, MA: MIT Press, 2011.



O'Brien, Daniel Tumminelli, Eric Gordon, and Jessica Baldwin. "Caring about the Community, Counteracting Disorder: 311 Reports of Public Issues as Expressions of Territoriality." *Journal of Environmental Psychology* 40 (2014): 320–330.

O'Brien, Daniel Tumminelli, Dietmar Offenhuber, Jessica Baldwin-Philippi, Melissa Sands, and Eric Gordon. "Uncharted Territoriality in Coproduction: The Motivations for 311 Reporting." *Journal of Public Administration Research and Theory* 27, no. 2 (2017): 320–335.

O'Malley, Nick. "To Predict and to Serve: The Future of Law Enforcement." *Sydney Morning Herald*, March 30, 2013. <http://www.smh.com.au/world/to-predict-and-to-serve-the-future-of-law-enforcement-20130330-2h0rb.html>.

O'Neil, Cathy. "Don't Grade Teachers with a Bad Algorithm." *Bloomberg*, May 15, 2017. <https://www.bloomberg.com/view/articles/2017-05-15/don-t-grade-teachers-with-a-bad-algorithm>.

Offenhuber, Dietmar. "The Designer as Regulator: Design Patterns and Categorization in Citizen Feedback Systems." Paper delivered at the Workshop on Big Data and Urban Informatics, Chicago, 2014.

Overmann, Lynn. "Launching the Data-Driven Justice Initiative: Disrupting the Cycle of Incarceration." *The Obama White House* (2016). <https://medium.com/@ObamaWhiteHouse/launching-the-data-driven-justice-initiative-disrupting-the-cycle-of-incarceration-e222448a64cf>.

Ozer, Nicole. "Police Use of Social Media Surveillance Software Is Escalating, and Activists Are in the Digital Crosshairs." Medium: ACLU of Northern CA (2016). [https://medium.com/@ACLU\\_NorCal/police-use-of-social-media-surveillance-software-is-escalating-and-activists-are-in-the-digital-d29d8f89c48](https://medium.com/@ACLU_NorCal/police-use-of-social-media-surveillance-software-is-escalating-and-activists-are-in-the-digital-d29d8f89c48).

Palmisano, Samuel J. "Smarter Cities: Crucibles of Global Progress." Address, Rio de Janeiro, November 9, 2011. [https://www.ibm.com/smarterplanet/us/en/smarter\\_cities/article/rio\\_keynote.html](https://www.ibm.com/smarterplanet/us/en/smarter_cities/article/rio_keynote.html).

Papachristos, Andrew V. "CPD's Crucial Choice: Treat Its List as Offenders or as Potential Victims?" *Chicago Tribune*, July 29, 2016. <http://www.chicagotribune.com/news/opinion/commentary/ct-gun-violence-list-chicago-police-murder-perspec-0801-jm-20160729-story.html>.

Papachristos, Andrew V., and Christopher Wildeman. "Network Exposure and Homicide Victimization in an African American Community." *American Journal of Public Health* 104, no. 1 (2014): 143–150.

Pasquale, Frank. "Secret Algorithms Threaten the Rule of Law." *MIT Technology Review*, June 1, 2017. <https://www.technologyreview.com/s/608011/secret-algorithms-threaten-the-rule-of-law/>.

Perez, Thomas E. "Investigation of the Miami-Dade County Jail." U.S. Department of Justice, Civil Rights Division (August 24, 2011). <https://www.clearinghouse.net/chDocs/public/JC-FL-0021-0004.pdf>.

Peterson, Andrea. "Why the Names of Six People Who Complained of Sexual Assault Were Published Online by Dallas Police." *Washington Post*, April 29, 2016. <https://www.washingtonpost.com/news/the-switch/wp/2016/04/29/why-the-names-of-six-people-who-complained-of-sexual-assault-were-published-online-by-dallas-police/>.

Philadelphia, City of. "Open Budget." <http://www.phila.gov/openbudget/>.

Pinch, Trevor J, and Wiebe E. Bijker. "The Social Construction of Facts and Artifacts: Or How the Sociology of Science and the Sociology of Technology Might Benefit Each Other." In *The Social Construction of Technological Systems: New Directions in the Sociology and History of Technology*, edited by Wiebe E. Bijker, Thomas P. Hughes, and Trevor Pinch. Cambridge, MA: MIT Press, 1987.

Pinto, Nick. "Google Is Transforming NYC's Payphones into a 'Personalized Propaganda Engine.'" *Village Voice*, July 6, 2016. <https://www.villagevoice.com/2016/07/06/google-is-transforming-nycs-payphones-into-a-personalized-propaganda-engine/>.

Podesta, John, Penny Pritzker, Ernest J. Moniz, John Holdren, and Jeffrey Zients. *Big Data: Seizing Opportunities, Preserving Values*. Washington, DC: Executive Office of the President, 2014.

Porter, Theodore M. *Trust in Numbers: The Pursuit of Objectivity in Science and Public Life*. Princeton, NJ: Princeton University Press, 1995.

Powles, Julia. "New York City's Bold, Flawed Attempt to Make Algorithms Accountable." *New Yorker*, December 20, 2017. <https://www.newyorker.com/tech/elements/new-york-citys-bold-flawed-attempt-to-make-algorithms-accountable>.

PredPol. "Atlanta Police Chief George Turner Highlights PredPol Usage." PredPol: Blog (May 21, 2014). <http://www.predpol.com/atlanta-police-chief-george-turner-highlights-predpol-usage/>.

PredPol. "How PredPol Works" [2018]. <http://www.predpol.com/how-predictive-policing-works/>.

PredPol. "Proven Crime Reduction Results" [2018]. <http://www.predpol.com/results/>.

Reece, Andrew G., and Christopher M. Danforth. "Instagram Photos Reveal Predictive Markers of Depression." *EPJ Data Science* 6, no. 15 (2017). <https://doi.org/10.1140/epjds/s13688-017-0110-z>.

Reiman, Jeffrey, and Paul Leighton. *The Rich Get Richer and the Poor Get Prison: Ideology, Class, and Criminal Justice*. New York: Routledge, 2015.

"Results-Driven Contracting: An Overview." Harvard Kennedy School Government PerformanceLab(2016).[http://govlab.hks.harvard.edu/files/siblab/files/results-driven\\_contracting\\_an\\_overview\\_0.pdf](http://govlab.hks.harvard.edu/files/siblab/files/results-driven_contracting_an_overview_0.pdf).

Reuben, Ernesto, Paola Sapienza, and Luigi Zingales. "How Stereotypes Impair Women's Careers in Science." *Proceedings of the National Academy of Sciences* 111, no. 12 (March 25, 2014): 4403–4408.

"The Rise of Workplace Spying." *The Week*, July 8, 2015. <http://theweek.com/articles/564263/rise-workplace-spying>.

Rittel, Horst W. J., and Melvin M. Webber. "Dilemmas in a General Theory of Planning." *Policy Sciences* 4, no. 2 (1973): 155–169.

Robinson, David, and Logan Koepke. "Stuck in a Pattern." *Upturn* (2016). <https://www.teamupturn.org/reports/2016/stuck-in-a-pattern/>.

Roller, Emma. "'Victory Can Be a Bit of a Bitch': Corey Robin on the Decline of American Conservatism." *Splinter*, September 1, 2017. <https://splinternews.com/victory-can-be-a-bit-of-a-bitch-corey-robin-on-the-dec-1798679236>.

Roth, Alvin. "Why New York City's High School Admissions Process Only Works Most of the Time." *Chalkbeat*, July 2, 2015. <https://www.chalkbeat.org/posts/ny/2015/07/02/why-new-york-citys-high-school-admissions-process-only-works-most-of-the-time/>.

Rothstein, Richard. *The Color of Law: A Forgotten History of How Our Government Segregated America*. New York: Liveright, 2017.

Rubin, Joel. "Stopping Crime Before It Starts." *Los Angeles Times*, August 21, 2010. <http://articles.latimes.com/2010/aug/21/local/la-me-predictcrime-20100427-1>.

Rudder, Christian. "We Experiment On Human Beings!" *The OkCupid Blog* (2014). <https://theblog.okcupid.com/we-experiment-on-human-beings-5dd9fe280cd5>.

Ryan, John. "After 10-Year Plan, Why Does Seattle Have More Homeless Than Ever?" *KUOW*, March 3, 2015. <http://kuow.org/post/after-10-year-plan-why-does-seattle-have-more-homeless-ever>.

Sadowski, Jathan, and Frank Pasquale. "The Spectrum of Control: A Social Theory of the Smart City." *First Monday* 20, no. 7 (2015). <http://firstmonday.org/article/view/5903/4660>.

Salisbury, Harrison E. *The Shook-Up Generation*. New York: Harper and Row, 1958.

Sampaio, Rafael, and Tiago Peixoto. "Electronic Participatory Budgeting: False Dilemmas and True Complexities." In *Hope for Democracy: 25 Years of Participatory Budgeting Worldwide*, edited by Nelson Dias. São Brás de Alportel, Portugal: In Loco Association, 2014.

San Francisco, City and County of. "Apps: Transportation." *San Francisco Data* [2018]. <http://apps.sfgov.org/showcase/apps-categories/transportation/>.

Sanders, Lynn M. "Against Deliberation." *Political Theory* 25, no. 3 (1997): 347–376.

Saunders, Jessica, Priscilla Hunt, and John S. Hollywood. "Predictions Put into Practice: A Quasi-experimental Evaluation of Chicago's Predictive Policing Pilot." *Journal of Experimental Criminology* 12, no. 3 (2016): 347–371.

Schiener, Dominik. "Liquid Democracy: True Democracy for the 21st Century" Medium: Organizer Sandbox (November 23, 2015). <https://medium.com/organizer-sandbox/liquid-democracy-true-democracy-for-the-21st-century-7c66f5e53b6f>.

Schlozman, Kay Lehman, Sidney Verba, and Henry E. Brady. *The Uneven Chorus: Unequal Political Voice and the Broken Promise of American Democracy*. Princeton, NJ: Princeton University Press, 2012.

Schmitt, Angie. "How Engineering Standards for Cars Endanger People Crossing the Street." *Streetsblog USA*, March 3, 2017. <http://usa.streetsblog.org/2017/03/03/how-engineering-standards-for-cars-endanger-people-crossing-the-street/>.

Schneier, Bruce. *Click Here to Kill Everybody: Security and Survival in a Hyper-connected World*. New York: W. W. Norton, 2018.

Schneier, Bruce. "Data Is a Toxic Asset, So Why Not Throw It Out?" *CNN*, March 1, 2016. <http://www.cnn.com/2016/03/01/opinions/data-is-a-toxic-asset-opinion-schneier/index.html>.

Schwartz, Paul M., and Daniel J. Solove. "The PII Problem: Privacy and a New Concept of Personally Identifiable Information." *NYU Law Review* 86 (2011): 1814–1894.

Scott, James C. *Seeing Like a State: How Certain Schemes to Improve the Human Condition Have Failed*. New Haven: Yale University Press, 1998.

Seattle, City of. "About the Privacy Program" (2018). <http://www.seattle.gov/tech/initiatives/privacy/about-the-privacy-program>.

Seattle, City of. "About the Surveillance Ordinance" (2018). <https://www.seattle.gov/tech/initiatives/privacy/surveillance-technologies/about-surveillance-ordinance>.

Seattle, City of. "City of Seattle Privacy Principles" (2015). <https://www.seattle.gov/Documents/Departments/InformationTechnology/City-of-Seattle-Privacy-Principles-FINAL.pdf>.

Seattle, City of. "Homelessness Investment Analysis" (2015). <https://www.seattle.gov/Documents/Departments/HumanServices/Reports/HomelessInvestmentAnalysis.pdf>.

Seattle/King County Coalition on Homelessness. "2015 Street Count Results" (2015). [http://www.homelessinfo.org/what\\_we\\_do/one\\_night\\_count/2015\\_results.php](http://www.homelessinfo.org/what_we_do/one_night_count/2015_results.php).

Samuels, Alana. "The Role of Highways in American Poverty." *The Atlantic*, March 2016. <https://www.theatlantic.com/business/archive/2016/03/role-of-highways-in-american-poverty/474282/>.

Senseable City Lab. "DriveWAVE by MIT SENSEable City Lab" (2015). <http://senseable.mit.edu/wave/>.

Shaban, Abdur Rahman Alfa. "Ethiopia Bags a Continental First with \$2.2m Smart Parking Facility." *Africanews*, June 15, 2017. <http://www.africanews.com/2017/06/15/ethiopia-s-22m-smart-parking-facility-is-africa-s-first/>.

Shanker, Ravi, et al. "Autonomous Cars: Self-Driving the New Auto Industry Paradigm." *Morgan Stanley Blue Paper* (November 6, 2013). <https://orfe.princeton.edu/~alaink/SmartDrivingCars/PDFs/Nov2013MORGAN-STANLEY-BLUE-PAPER-AUTONOMOUS-CARS%EF%BC%9A-SELF-DRIVING-THE-NEW-AUTO-INDUSTRY-PARADIGM.pdf>.

Short, Adrian. "BT InLink in London: Building a Privatised 'Smart City' by Stealth" (December 14, 2017). <https://www.adrianshort.org/posts/2017/bt-inlink-london-smart-city/>.

Siddle, James. "I Know Where You Were Last Summer: London's Public Bike Data Is Telling Everyone Where You've Been." *The Variable Tree*, April 10, 2014. <https://vartree.blogspot.co.uk/2014/04/i-know-where-you-were-last-summer.html>.

"Sidewalk Labs." <https://www.sidewalklabs.com/>.

Sidewalk Labs. "Vision Sections of RFP Submission" (October 17, 2017). <https://sidewalktoronto.ca/wp-content/uploads/2017/10/Sidewalk-Labs-Vision-Sections-of-RFP-Submission.pdf>.

Singer, Natasha. "Bringing Big Data to the Fight against Benefits Fraud." *New York Times*, February 22, 2015. <https://www.nytimes.com/2015/02/22/technology/bringing-big-data-to-the-fight-against-benefits-fraud.html>.

Smart, Christopher. "What Do You Like, Don't Like?—Text It to Salt Lake City." *Salt Lake Tribune*, August 20, 2012. <http://archive.sltrib.com/story.php?ref=/sltrib/news/54728901-78/lake-salt-text-plan.html.csp>.

Smart Columbus. "Smart Columbus Connects Linden Meeting Summary" (2017).

Smith, Jack. "'Minority Report' Is Real—And It's Really Reporting Minorities." *Mic*, November 9, 2015. <https://mic.com/articles/127739/minority-reports-predictive-policing-technology-is-really-reporting-minorities>.

Solove, Daniel J. *The Digital Person: Technology and Privacy in the Information Age*. New York: New York University Press, 2004.

Sorokanich, Bob. "New York City Is Using Data Mining to Fight Fires." *Gizmodo* (2014). <https://gizmodo.com/new-york-city-is-fighting-fires-with-data-mining-1509004543>.

Speck, Jeff. "Autonomous Vehicles & the Good City." Lecture at United States Conference of Mayors, Washington, DC, January 19, 2017. <https://www.youtube.com/watch?v=5AELH-sI9CM>.

Spurr, Ben. "Toronto Plans to Test Driverless Vehicles for Trips to and from Transit Stations." *The Star*, July 3, 2018. <https://www.thestar.com/news/gta/2018/07/03/toronto-plans-to-test-driverless-vehicles-for-trips-to-and-from-transit-stations.html>.

Sullivan, Christopher M., and Zachary P. O'Keeffe. "Evidence That Curtailing Proactive Policing Can Reduce Major Crime." *Nature Human Behaviour* 1 (2017): 730–737.

Sweeney, Latanya. "Simple Demographics Often Identify People Uniquely." Carnegie Mellon University, Data Privacy Working Paper 3, 2000.

Tachet, Remi, Paolo Santi, Stanislav Sobolevsky, Luis Ignacio Reyes-Castro, Emilio Frazzoli, Dirk Helbing, and Carlo Ratti. "Revisiting Street Intersections Using Slot-Based Systems." *PloS One* 11, no. 3 (2016). <https://doi.org/10.1371/journal.pone.0149607>.

Tadayon, Ali. "Oakland to Require Public Approval of Surveillance Tech." *East Bay Times*, May 2, 2018. <https://www.eastbaytimes.com/2018/05/02/oakland-to-require-public-approval-of-surveillance-tech/>.

Tauberer, Joshua. "So You Want to Reform Democracy." Medium: Civic Tech Thoughts from JoshData (November 22, 2015). <https://medium.com/civic-tech-thoughts-from-joshdata/so-you-want-to-reform-democracy-7f3b1ef10597>.

TechCrunch. "Taking a Ride in Delphi's Latest Autonomous Drive" (2017). <https://www.youtube.com/watch?v=wWdVfGIBqzE>.

Tett, Gillian. "Mapping Crime—or Stirring Hate?" *Financial Times*, August 22, 2014. <https://www.ft.com/content/200bebee-28b9-11e4-8bda-00144feabdc0>.

"Textizen." <https://www.textizen.com/>.

Ticoll, David. "Driving Changes: Automated Vehicles in Toronto." Discussion paper, Munk School of Global Affairs, University of Toronto (2015). <https://munkschool.utoronto.ca/ipl/files/2016/03/Driving-Changes-Ticoll-2015.pdf>.

Tockar, Anthony. "Riding with the Stars: Passenger Privacy in the NYC Taxicab Dataset." *Neustar Research*, September 15, 2014. <https://research.neustar.biz/2014/09/15/riding-with-the-stars-passenger-privacy-in-the-nyc-taxicab-dataset/>.

Tufekci, Zeynep. *Twitter and Tear Gas: The Power and Fragility of Networked Protest*. New Haven: Yale University Press, 2017.

United States Conference of Mayors. "Cities of the 21st Century: 2016 Smart Cities Survey" (January 2017). <https://www.usmayors.org/wp-content/uploads/2017/02/2016SmartCitiesSurvey.pdf>.

U.S. Department of Transportation. "Smart City Challenge: Lessons for Building Cities of the Future" (2017). [https://www.transportation.gov/sites/dot.gov/files/docs/Smart City Challenge Lessons Learned.pdf](https://www.transportation.gov/sites/dot.gov/files/docs/Smart%20City%20Challenge%20Lessons%20Learned.pdf).

Vaithianathan, Rhema. "Big Data Should Shrink Bureaucracy Big Time." *Stuff*, October 18, 2016. <https://www.stuff.co.nz/national/politics/opinion/85416929/rhema-vaithianathan-big-data-should-shrink-bureaucracy-big-time>.

Vargas, Claudia. "City Settles Gun Permit Posting Suit." *Philadelphia Inquirer*, July 23, 2014. [http://www.philly.com/philly/news/local/20140723\\_City\\_settles\\_gun\\_permit\\_suit\\_for\\_1\\_4\\_million.html](http://www.philly.com/philly/news/local/20140723_City_settles_gun_permit_suit_for_1_4_million.html).

Vitale, Alex S. *The End of Policing*. London: Verso, 2017.

Wakabayashi, Daisuke. "Uber's Self-Driving Cars Were Struggling Before Arizona Crash." *New York Times*, March 23, 2018. <https://www.nytimes.com/2018/03/23/technology/uber-self-driving-cars-arizona.html>.

Wang, Tong, Cynthia Rudin, Daniel Wagner, and Rich Sevieri. "Finding Patterns with a Rotten Core: Data Mining for Crime Series with Cores." *Big Data* 3, no. 1 (2015): 3–21. <http://doi.org/10.1089/big.2014.0021>.

*The War Room*. Hosted by Jennifer Granholm, Current TV, January 16, 2013. Posted as "PredPol on Current TV with Santa Cruz Crime Analyst Zach Friend" (2013). <https://www.youtube.com/watch?v=8uKor0nfsdQ>.

Washington, Ken. "A Look into Ford's Self-Driving Future." Medium: Self-Driven (February 3, 2017). <https://medium.com/self-driven/a-look-into-fords-self-driving-future-5aae38ee2059>.

Weisel, Deborah Lamm. "Burglary of Single-Family Houses." *U.S. Department of Justice, Office of Community Oriented Policing Services, Problem-Oriented Guides for Police Series No. 18*, 2002. [http://www.popcenter.org/problems/pdfs/burglary\\_of\\_single-family\\_houses.pdf](http://www.popcenter.org/problems/pdfs/burglary_of_single-family_houses.pdf).

Wexler, Rebecca. "Life, Liberty, and Trade Secrets: Intellectual Property in the Criminal Justice System." *Stanford Law Review* 70 (2018): 1343–1429.

What Works Cities. "Tackling Homelessness in Seattle" (2017). <https://www.youtube.com/watch?v=dzkblumT4XU>.

White, Ariel, and Kris-Stella Trump. "The Promises and Pitfalls of 311 Data." *Urban Affairs Review* 54, no. 4 (2016): 794–823. <https://doi.org/10.1177/1078087416673202>.

White House Office of the Press Secretary. "FACT SHEET: Administration Announces New 'Smart Cities' Initiative to Help Communities Tackle Local Challenges and Improve City Services" (September 14, 2015). <https://obamawhitehouse.archives.gov/the-press-office/2015/09/14/fact-sheet-administration-announces-new-smart-cities-initiative-help>.

White House Office of the Press Secretary. "FACT SHEET: Launching the Data-Driven Justice Initiative: Disrupting the Cycle of Incarceration" (June 30, 2016). <https://obamawhitehouse.archives.gov/the-press-office/2016/06/30/fact-sheet-launching-data-driven-justice-initiative-disrupting-cycle>.

Winner, Langdon. *The Whale and the Reactor: A Search for Limits in an Age of High Technology*. Chicago: University of Chicago Press, 1986.

Winston, Ali. "Palantir Has Secretly Been Using New Orleans to Test Its Predictive Policing Technology." *The Verge*, February 27, 2018. <https://www.theverge.com/2018/2/27/17054740/palantir-predictive-policing-tool-new-orleans-nopd>.

Wylie, Bianca. "Debrief on Sidewalk Toronto Public Meeting #2—Time to Start Over, Extend the Process." Medium (May 6, 2018). <https://medium.com/@biancawylie/sidewalk-toronto-public-meeting-2-time-to-start-over-extend-the-process-a0575b3adfc3>.

Zimmer, John. "The Third Transportation Revolution." Medium: The Road Ahead (September 18, 2016). <https://medium.com/@johnzimmer/the-third-transportation-revolution-27860f05fa91>.

Zimmer, John, and Logan Green. "The End of Traffic: Increasing American Prosperity and Quality of Life." Medium: The Road Ahead (January 17, 2017). <https://medium.com/@johnzimmer/the-end-of-traffic-6d255c03207d>.

Zuckerberg, Mark. "Facebook's Letter from Mark Zuckerberg—Full Text." *The Guardian*, February 1, 2012. <https://www.theguardian.com/technology/2012/feb/01/facebook-letter-mark-zuckerberg-text>.



This is a section of [doi:10.7551/mitpress/11555.001.0001](https://doi.org/10.7551/mitpress/11555.001.0001)

# The Smart Enough City

## Putting Technology in Its Place to Reclaim Our Urban Future

By: Ben Green

### Citation:

*The Smart Enough City: Putting Technology in Its Place to Reclaim Our Urban Future*

By: Ben Green

DOI: [10.7551/mitpress/11555.001.0001](https://doi.org/10.7551/mitpress/11555.001.0001)

ISBN (electronic): 9780262352246

Publisher: The MIT Press

Published: 2020

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



The MIT Press

© 2019 Massachusetts Institute of Technology

All rights reserved. No part of this book may be reproduced in any form by any electronic or mechanical means (including photocopying, recording, or information storage and retrieval) without permission in writing from the publisher.

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

Library of Congress Cataloging-in-Publication Data is available.

ISBN: 978-0-262-03967-3

10 9 8 7 6 5 4 3 2 1