

NTIA Privacy Multistakeholder Process
Commercial Facial Recognition Technology
Preliminary Background Resources
April 25, 2014

Academic Research

- Margot Kaminski, “Real Masks and Real Name Policies: Applying Anti-Mask Case Law to Anonymous Online Speech,” Fordham Intellectual Property, Media & Entertainment Law Journal, Vol. 23, No. 815, Apr. 12, 2013, http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2250054
- Alessandro Acquisti, Ralph Gross, Fred Stutzman, “Faces of Facebook: Privacy in the Age of Augmented Reality,” Carnegie Mellon University, Aug. 2011, <http://www.heinz.cmu.edu/~acquisti/face-recognition-study-FAQ/>
- Pawan Sinha, Benjamin Balas, Yuri Ostrovsky, Richard Russell, “Face Recognition by Humans: 19 Results all Computer Vision Researchers Should Know About,” 2005, http://web.mit.edu/bcs/sinha/papers/19results_sinha_etal.pdf

Technical Resources

- Marc A. Vaillant, Ph.D., “Face Recognition Technology Today,” Feb. 25, 2014, https://www.ntia.doc.gov/files/ntia/publications/ntia_feb252014_marcvaillant.pdf
- Michelle Chibba, “Presentation at NTIA Stakeholder Meeting: Technical Privacy Safeguards for Facial Recognition,” Feb. 6, 2014, http://www.ntia.doc.gov/files/ntia/publications/michellechibba_feb6-14_ntia.pdf
- P. Jonathon Phillips, Ph.D. and Jan Machacek, “Presentations at NTIA Stakeholder Meeting,” Feb. 6, 2014, http://www.ntia.doc.gov/files/ntia/publications/panel_1_combined_slides_ntia_6_feb_2014.pdf
- Neslihan Kose, Jean-Luc Dugelay, “Countermeasure for the Protection of Face Recognition Systems Against Mask Attacks,” 10th IEEE International Conference on Automatic Face and Gesture Recognition, 22-26 Apr. 2013, Shanghai, China, <http://www.eurecom.fr/en/publication/3931/detail/countermeasure-for-the-protection-of-face-recognition-systems-against-mask-attacks>
- INCITS – the InterNational Committee for Information Technology Standards, “E-Authentication Report on Biometrics,” Mar. 30, 2007, https://standards.incits.org/apps/group_public/download.php/24528/m1070185rev.pdf.

- Ralph Gross, “Face Databases,” Handbook of Face Recognition, 2005, http://www.ri.cmu.edu/publication_view.html?pub_id=4932
- BioAPI Consortium, “Frequently Asked Questions,” <http://www.bioapi.org/faqs.asp>.
- International Organization for Standardization, “JTC 1/SC 37,” http://www.iso.org/iso/jtc1_sc37_home.
- National Institute of Standards and Technology, Facial Recognition Resources, including “Point and Shoot Face Recognition Challenge (PaSC),” “Face Recognition Vendor Tests (FRVT),” and the “Face Recognition Grand Challenge (FRGC),” <http://face.nist.gov>

Policy Resources

- Marketing Research Association, “The Marketing Research Applications of Facial Recognition Technology: A White Paper for the NTIA Multistakeholder Process,” Feb. 6, 2014, http://www.marketingresearch.org/sites/mra/files/pdfs/MRA_facial-recognition-MR-applications_2-6-14.pdf
- Biometrics Institute, “Privacy Guidelines [DRAFT]” Jan. 2013, http://www.biometricsinstitute.org/data/Privacy/BiometricsInstitute_BIOMETRIC_S_GUIDELINES_Revised_Subject_to_Approval.pdf
- Center for Democracy & Technology, “Facial Recognition & Privacy: An EU-US Perspective,” Oct. 8, 2012, https://www.cdt.org/files/pdfs/CDT_facial_recog.pdf.
- Jennifer Lynch, Electronic Frontier Foundation, “What Facial Recognition Technology Means for Privacy and Civil Liberties,” Jul. 18, 2012, https://www.eff.org/files/filenode/JenniferLynch_EFF-Senate-Testimony-Face_Recognition.pdf.
- European Commission, Article 29 Data Protection Working Party, “Opinion 02/2012 on Facial Recognition in Online and Mobile Services,” Mar. 2, 2012, http://ec.europa.eu/justice/data-protection/article-29/documentation/opinion-recommendation/files/2012/wp192_en.pdf
- Joseph J. Atick, Ph.D., findBIOMETRICS, “Face Recognition in the Era of the Cloud and Social Media: Is it Time to Hit the Panic Button?” Oct. 19, 2011, <http://findbiometrics.com/face-recognition-in-the-era-of-the-cloud-and-social-media-is-it-time-to-hit-the-panic-button-2/>
- Digital Signage Federation, “Digital Signage Privacy Standards,” Feb. 2011, <http://www.digitalsignagefederation.org/Resources/Documents/Articles%20and%20>

[0Whitepapers/DSF%20Digital%20Signage%20Privacy%20Standards%2002-2011%20%283%29.pdf](http://www.ftc.gov/Whitepapers/DSF%20Digital%20Signage%20Privacy%20Standards%202002-2011%20%283%29.pdf)

- Point of Purchase Advertising International (POPAI) Digital Signage Group, “Best Practices: Recommended Code of Conduct for Consumer Tracking Research,” Aug. 2, 2010, <http://www.popai.com/docs/DS/2010dscc.pdf>.
- Center for Democracy & Technology, “A Framework for Digital Signage Privacy,” Mar. 1, 2010, https://www.cdt.org/files/pdfs/A_Framework_for_Digital_Signage_Privacy-Center_for_Democracy_and_Technology-March_2010.pdf.
- World Privacy Forum, “Biometric Videos Series Home Page: Intro to the Technologies of Identity,” <http://www.worldprivacyforum.org/2014/01/biometrics/>.

Federal Trade Commission Resources

- Federal Trade Commission, “Facing Facts: Best Practices for Common Uses of Facial Recognition Technologies,” Oct. 2012, <http://www.ftc.gov/sites/default/files/documents/reports/facing-facts-best-practices-common-uses-facial-recognition-technologies/121022facialechrpt.pdf>
- “Testimony of the Federal Trade Commission on the Use of Facial Recognition Technology by Governments and the Privacy Sector, Presented by Maneesha Mithal, Associate Director, Division of Privacy and Identity Protection,” before the Senate Judiciary Committee, Subcommittee on Privacy, Technology, and the Law, July 18, 2012, http://www.ftc.gov/sites/default/files/documents/public_statements/prepared-statement-federal-trade-commission-use-facial-recognition-technology-governments-and/120718facialrecognition.pdf
- Federal Trade Commission, “Face Facts: A Forum on Facial Recognition Technology,” Dec. 8, 2011, <http://www.ftc.gov/news-events/events-calendar/2011/12/face-facts-forum-facial-recognition-technology>
- Public Comments Regarding “Face Facts: A Forum on Facial Recognition,” 2012, http://www.ftc.gov/policy/public-comments/comment-search?body_value=&field_matter_number_value=P115406&field_author_value=&field_date_time_value_1%5Bvalue%5D%5Bdate%5D=