

Title - Digital Identity - History and Present Development
Course Number: STS 331
Spring 2007

Instructor: Christoph Engemann
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Description:

A seminar course on the social and technological challenges of the creation of Digital Identities. Starting with an historical overview of the development of real world identity systems, the seminar will investigate the problem of creating identities in computer environments. When did the problem of identity occur in the usage of computers and what solutions were found? What is identity on the Internet? What is the relationship between Digital Identity and privacy? What interests have state and commerce in developing Digital Identities? And what functions have national ID-Cards in Digital Identity regimes?

Classes: Monday, Wednesday, Friday, 1-2 PM, RLM 7.124.

Syllabus

Each session one participant will introduce one text in brief form (5-6 minutes) to the class. 'PDF' indicates that the text is made available on Blackboard. 'Media of the Week' are suggestions of movies or novels that add context to the topics discussed in class.

Week 1: Introduction

Groebner V. (2001): 'Describing the Person, Reading the Signs in late Medieval and Renaissance Europe', in: Caplan, Jane; Torpey, John (2001): *Documenting Individual Identity. The Development of State Practices in the Modern State*. Princeton, Princeton University Press. (PDF)

Caplan J. (2001): 'Protocols of Identification', in: Caplan, Jane; Torpey, John (2001): *Documenting Individual Identity. The Development of State Practices in the Modern State*. Princeton, Princeton University Press. P. 56-66, (PDF)

Week 2: Papers: People and Goods

Media of the Week: Mark Twain 'The Prince and the Pauper' (1882)

Noriel G. (2001): 'The Identification of the Citizen. The birth of Republican Civil Status in France', in: Caplan, Jane; Torpey, John (2001): *Documenting Individual Identity. The Development of State Practices in the Modern State*. Princeton, Princeton University Press. (PDF)

Torpey J. (1998): 'Coming and Going: On the State Monopolization of the Legitimate "Means of Movement"' *Sociological Theory* 16(No. 3): 239-259. (PDF)

Week 3: Anthropometry: Bodies as Identity - Bertillon

Kaluszynski, M. (2001): *Republican Identity: 'Bertillonage as Government Technique'*, in: Caplan, Jane; Torpey, John (2001): *Documenting Individual Identity. The Development of State Practices in the Modern State*. Princeton, Princeton University Press. (PDF)

Cole, S. (2001): 'Measuring the criminal body', Chapter 2 in 'Suspect Identities', in: Cole, Simon A (2001): *Suspect Identities. A History of Fingerprinting and Criminal Identification*. Boston: Harvard University Press. P.33-59. (PDF)

Week 4: Anthropometry: Fingerprinting - Galton

Cole, S. (2001): 'Native Prints' Chapter 3 in 'Suspect Identities', in: Cole, Simon A (2001): *Suspect Identities. A History of Fingerprinting and Criminal Identification*. Boston: Harvard University Press. P. 60-96. (PDF)

Cole, S. (2001): 'Fingerprinting Foreigners', in: Cole, Simon A (2001): *Suspect Identities. A History of Fingerprinting and Criminal Identification*. Boston: Harvard University Press. P. 97-118. (PDF)

Ruggiero, K. (2001): 'Fingerprinting and the Argentine Plan for Universal Identification', in: Caplan, Jane; Torpey, John (2001): *Documenting Individual Identity. The Development of State Practices in the Modern State*. Princeton, Princeton University Press. P. 184-196. (PDF)

Week 5: The Passport System

Media of the Week: Terminal (2004)

Torpey, J. (2000): 'The Invention of the Passport.' Cambridge, Cambridge University Press.

Torpey, J. (2001): 'The Great War and the Birth of the Modern Passport System.', in: Caplan, Jane; Torpey, John (2001): *Documenting Individual Identity. The Development of State Practices in the Modern State*. Princeton, Princeton University Press. P. 256-270. (PDF)

Salter, Mark (2003): 'The Passport in international relations.' Boulder: Lynne Rienner Publishers.

Week 6: The Passport System / ID-Cards - Colonial Subjects

Media of the Week: Hotel Rwanda (2004)

Longman, T (2001): 'Identity Cards, Ethnic Self Perception, and Genocide in Rwanda.', in: Caplan, Jane; Torpey, John (2001): *Documenting Individual Identity. The Development of State Practices in the Modern State*. Princeton, Princeton University Press. (PDF)

Mongia, R. V. (2003): 'Race, Nationality, Mobility: A History of the Passport. After the Imperial Turn.' A. Burton. Durham, Duke University Press.

Thomas, Phillip A. (1995): 'Identity Cards.' *Modern Law Review* 28 (No.5): 702-713. (PDF)

Week 8: The Internet: History

Media of the Week: William Gibson 'Neuromancer' (1986)

Baran, Paul (1964): On distributed communications.
http://www.rand.org/pubs/research_memoranda/RM3420/ (PDF)

Galloway, Alexander R (2004): Protocol. How Control exists after Decentralization, Cambridge und London, MIT Press, P. 3-53.

Hafner, Katie; Lyon, Matthew (1996): Where the Wizards stay up late. The Origins of the Internet. New York, Simon & Schuster.

Abbate, Janet (1999): Inventing the Internet. Cambridge, Massachusetts and London: MIT Press.

Week 9: The Internet: Anonymity

Media of the Week: Odyssey 5, Ep. 11. 'Kitten' (2002).

Froomkin, Michael (2003): Anonymity in balance. In: Digital Anonymity and the Law. Tensions and Dimensions, C. Nicoll; JE.J. Prins; M.J.M. van Dellen Eds. The Hague: T.M.C. Asser Press. (PDF)

Solove, Daniel, J. (2006): A Taxonomy of Privacy. University of Pennsylvania Law Review, Vol 154, No. 3. (PDF)

Week 10: Reputation Systems

Media of the Week: Code 46 (2003)

Noveck, S. B. (2006): Trademark Law and the Social Construction of Trust: Creating the Legal Framework for On-Line Identity, In: Washington University Law Quarterly, Vol. 83
http://papers.ssrn.com/sol3/papers.cfm?abstract_id=835924

Masum, Hassan; Zhang, Yi-Cheng (2004): Manifesto for the Reputation Society, in: First Monday, volume 9, number 7 (July 2004),
http://firstmonday.org/issues/issue9_7/masum/index.html

Week 11: Cryptography

Media of the Week: Neal Stephenson 'Cryptonomicon' (2000)

Kahn, D. (1996): *The Codebreakers - The Comprehensive History of Secret Communication from Ancient Times to the Internet*. New York: Scribner.

Singh, Simon (2000). *The Code Book: The Science of Secrecy from Ancient Egypt to Quantum Cryptography*. New York: Anchor Books.

Week 12: - Digital Signatures & Biometrics

Media of the Week: *Gattaca* (1997)

Singh, Simon (2000). *The Code Book: The Science of Secrecy from Ancient Egypt to Quantum Cryptography*. Chapter 6/7, pp 243-315

Levy, Steven (2001): *Crypto. How the Code Rebels Beat the Government Saving Privacy in the Digital Age*. New York: Viking.

http://en.wikipedia.org/wiki/Public_key

<http://www.ladlass.com/intel/archives/010256.html>

http://en.wikipedia.org/wiki/Public_key_infrastructure

http://en.wikipedia.org/wiki/Key_escrow

Week 13: E-Government

Media of the Week: *Minority Report* (2002)

Lessig Lawrence (1999): *Code and other Laws of Cyberspace*. New York: Basic Books. Chapter 4/6 (PDF)

Brown, David (2005): *Electronic Government and public administration*. *International Review of Administrative Sciences*. Vol. 71 (2): 241-254. (PDF)

Fountain, Jane (2001): *Building the Virtual State*. Washington: Brookings Institution. Chapter 1/2 (PDF)

Week 14: Digital Identity

Media of the Week: *Vernon Vinge 'True Names'* (1980)

Cameron, Kim (2005): The Seven Laws of Identity.
<http://www.identityblog.com/stories/2004/12/09/thelaws.html>

Rundle, Mary; Lauriel, Ben (2006): Identity Management as a Cybersecurity Case Study. <http://cyber.law.harvard.edu/home/2006-01>

Week 15: Identity 2.0

Cardspace: <http://msdn2.microsoft.com/en-us/netframework/aa663320.aspx>;
especially: <http://channel9.msdn.com/showpost.aspx?postid=181080> &
<http://msdn.microsoft.com/msdnmag/issues/06/04/securitybriefs/default.aspx>;
http://en.wikipedia.org/wiki/Windows_CardSpace;

Open-ID: <http://openid.net/>; <http://en.wikipedia.org/wiki/OpenID>

Sxip ID: <http://www.sxip.com/>

Identity-Commons: <http://www.idcommons.net/>

Week 16: Conclusion

Monday/Wednesday: Install and use one of the Identity 2.0 products and present your impressions to class.

Friday: Final presentations, concluding discussion

Assignments:

- 1- Oral assignments (30%)
- 2- Midterm presentation (in class, open notes) (20%)
- 3- 1 minute trial video assignment (10%)
- 4- Oral presentation and multimedia material of Identity 2.0 Tool (10%)
- 5- Final essay/movie (needs address themes and concepts discussed in class) (30%)

Skill Development:

The course requires the development of technical skills in old and new media. You will gain hands-on experience with video techniques, as well as writing and speaking in front of the class.

Your Mid-Term assignment is to produce a 3 minute Video. The Digital Media Services Initiative provides introduction and access to the necessary hard- and software and teaches how to use these tools. I am happy to provide contact to the DMI. You can have a look at their offerings here: <http://www.utexas.edu/academic/diia/lab/>

Class Policies:

Attendance: It will be impossible to do well in this class without physically attending class and participating in the in-class discussions. **Reading Assignments:** Each reading assignment should be completed before the class period in which it is discussed.

Class Participation: Your participation grade is based on your contributions to discussions in class.

Late Assignments: Projects are due at the time specified. The grade will be reduced by 10% each weekday the project is late.

Honesty: All work submitted must be your own. You may discuss assignments together, but all that you write should be yours. If you wish to incorporate someone else's ideas, you must acknowledge your source whether or not you quote the material directly. If you have questions about the use of source materials, see me before turning in the assignment. Plagiarism is a serious offense in college. See the Student Judicial Services statement on Academic Integrity. Serious cases of plagiarism will result in failing the course and possibly in expulsion from the University. Do not use editing services other than those provided by the Undergraduate Writing Center or the Learning Skills Center.

Literature:

Please look up the topics at stake (ID-card etc) in Wikipedia and other sources too! This bibliography contains the literature being read in class alongside material for further reading. The Media of the Week is included as reading/viewing for pleasure that give you context for the class. A good start is Vernon Vinges 'True Names'.

Abbate, Janet (1999): *Inventing the Internet*. Cambridge, Massachusetts and London: MIT Press.

Baran, Paul (1964): On distributed communications. http://www.rand.org/pubs/research_memoranda/RM3420/

Brown, David (2005): Electronic Government and public administration. *International Review of Administrative Sciences*. Vol. 71 (2): 241-254.

Cameron, Kim (2005): Seven Laws of Identity
<http://www.identityblog.com/stories/2004/12/09/thelaws.html>

Camp, L. Jean (2004): Identity in Digital Government, Indiana University
Bloomington -School of Informatics November 2, 2004
http://papers.ssrn.com/sol3/papers.cfm?abstract_id=615187

Caplan, Jane; Torpey, John (2001): Documenting Individual Identity. The
Development of State Practices in the Modern State. Princeton, Princeton
University Press.

Caplan J. (2001): 'Protocols of Identification'. P 56-66, in: Caplan, Jane; Torpey,
John (2001): Documenting Individual Identity. The Development of State
Practices in the Modern State. Princeton, Princeton University Press.

Cole, Simon A (2001): Suspect Identities. A History of Fingerprinting and
Criminal Identification. Boston: Harvard University Press.

Deleuze, Gilles (1992): Postscript on the Societies of Control, *OCTOBER* 59,
Winter 1992, Cambridge, MIT Press, pp. 3-7.
(<http://www.n5m.org/n5m2/media/texts/deleuze.htm>)

Derrida, Jaques (2005): Paper Machine. Stanford University Press.

Fahrmeir, Andreas (2000). Citizens and Alines. Foreigners and the Law in
Britain and
German States 1789-1870. New York, Bergahn Books.

Froomkin, Michael (2003): Anonymity in balance. In: Digital Anonymity and the
Law. Tensions and Dimensions, C. Nicoll; JE.J. Prins; M.J.M. van Dellen Eds.
The Hague: T.M.C. Asser Press.

Fountain, Jane (2001): Building the Virtual State. Information Technology and
Institutional Change. Washington D.C.: Brookings Institution.

Galloway, Alexander R (2004) Protocol. How Control exists after
Decentralization, Cambridge und London, MIT Press, P. 3-53.

Goody, Jack (1988): The Logic of Writing and the Organization of Society.
Cambridge: Cambridge University Press.

Groebner V. (2001): 'Describing the Person, Reading the Signs in late Medieval
and Renaissance Europe', in: Caplan, Jane; Torpey, John (2001): Documenting

Individual Identity. The Development of State Practices in the Modern State. Princeton, Princeton University Press. (PDF).

Groebner, Valentin (2007): Who Are You? Identification, Deception, and Surveillance in Early Modern Europe. Massachusetts, MIT Press.

Hafner, Katie; Lyon, Matthew (1996): Where the Wizards stay up late. The Origins of the Internet. New York, Simon & Schuster.

Higgs, Edward (2004). The Information State in England: the central collection of information on citizens, 1500-2000, London, Palgrave.

Kahn, D. (1996): The Codebreakers - The Comprehensive History of Secret Communication from Ancient Times to the Internet. New York: Scribner.

Lessig, Lawrence (1998): Code and other laws of Cyberspace. <http://code-is-law.org/>

Levy, Steven (2001): Crypto. How the Code Rebels Beat the Government Saving Privacy in the Digital Age. New York: Viking.

Kaluszynski, M. (2001): Republican Identity: 'Bertillonage as Government Technique', in: Caplan, Jane; Torpey, John (2001): Documenting Individual Identity. The Development of State Practices in the Modern State. Princeton, Princeton University Press. (PDF)

Longman, T. (2001): 'Identity Cards, Ethnic Self Perception, and Genocide in Rwanda.', in: Caplan, Jane; Torpey, John (2001): Documenting Individual Identity. The Development of State Practices in the Modern State. Princeton, Princeton University Press. (PDF)

Masum, Hassan; Zhang, Yi-Cheng (2004): Manifesto for the Reputation Society, in: First Monday, volume 9, number 7 (July 2004), http://firstmonday.org/issues/issue9_7/masum/index.html

Mongia, R. V. (2003): Race, Nationality, Mobility: A History of the Passport. After the 9 Imperial Turn. A. Burton. Durham: Duke University Press.

Noriel G. (2001): 'The Identification of the Citizen. The birth of Republican Civil Status in France' in: Caplan, Jane; Torpey, John (2001): Documenting Individual Identity. The Development of State Practices in the Modern State. Princeton, Princeton University Press. (PDF)

Noveck, S. B. (2006): Trademark Law and the Social Construction of Trust: Creating the Legal Framework for On-Line Identity, In: Washington University Law Quarterly, Vol. 83
http://papers.ssrn.com/sol3/papers.cfm?abstract_id=835924

Ruggiero, K. (2001): 'Fingerprinting and the Argentine Plan for Universal Identification', P. 184-196. in: Caplan, Jane; Torpey, John (2001): Documenting Individual Identity. The Development of State Practices in the Modern State. Princeton, Princeton University Press. (PDF)

Rundle, Mary; Lauriel, Ben (2006): Identity Management as a Cybersecurity Case Study. <http://cyber.law.harvard.edu/home/2006-01>

Salter, Mark (2003): 'The Passport in international relations.' Boulder: Lynne Rienner Publishers.

Singh, Simon (2000). The Code Book: The Science of Secrecy from Ancient Egypt to Quantum Cryptography. New York: Anchor Books.

Solove, Daniel, J. (2006): A Taxonomy of Privacy. University of Pennsylvania Law Review, Vol 154, No. 3.

Thomas, Phillip A. (1995): Identity Cards. Modern Law Review 28 (No. 5): 702-713.

Torpey, J. (1998): 'Coming and Going: On the State Monopolization of the Legitimate "Means of Movement"'. Sociological Theory 16(No. 3): 239-259.

Torpey, J. (2000): The Invention of the Passport Surveillance, Citizenship and the State. Cambridge, Cambridge University Press.

Turkle, S. (1995). Life on the screen. Identity in the Age of the Internet. New York, Simon and Schuster.

Tuschling, Anna; Engemann, Christoph (2006): From Education to Life-long-learning. The emerging regime in Europe. In: Educational Philosophy and Theory 2006. (PDF).

Blogs:

(These Blogs are both good starting points and great resources for investigating class topics)

Ralf Bendrath: <http://bendrath.blogspot.com/>

Burtongroup: <http://identityblog.burtongroup.com/>

Kim Cameron: <http://www.identityblog.com/>
(Microsoft)

Dick Hardt: <http://identity20.com/> (Sxip Identity - Watch the Video!:
<http://www.identity20.com/media/OSCON2005/>)

Identity Trail: <http://www.anonequity.org/weblog/>

Planet Identity: <http://www.planetidentity.org/>

Bruce Schneier: <http://www.schneier.com/blog/>

Daniel Solove: <http://www.concurringopinions.com/>

Software Initiatives:

Liberty Alliance
<http://www.projectliberty.org/>

Microsoft
<http://cardspace.netfx3.com/>

OpenID
<http://openid.net/>

Sxip Identity
<http://www.sxip.com/>