

Dikult 104 - Spring 2017 Reading List

Computer Technology in History, Theory and Practice

Campbell-Kelly, Martin et alii. 2013. Computer: A History of the Information Machine. Third Edition. Westview Press. Series: The Sloan Technology Series. 376 pages. ISBN-10: 0813345901 (Kindle available)

Wardrip-Fruin, Noah and Nick Montfort (editors). 2003. The New Media Reader. The MIT Press. 840 pages. ISBN-10: 0262232278. (See the choice of articles below)

Ryan, Marie-Laure et alii (editors). 2014. The Johns Hopkins Guide to Digital Media. Johns Hopkins University Press. 552 pages. ISBN-10: 1421412241. (See the choice of articles below)

Bunz, Mercedes. 2013. The Silent Revolution: How Digitalization Transforms Knowledge, Work, Journalism and Politics without making too much Noise. Palgrave. Series: Palgrave Pivot. 160 pages. ISBN-10: 1137373490. **(Available as PDF on mittuib.no)**

Montfort, Nick et alii. 2012. 10 PRINT CHR\$(205.5+RND(1)); : GOTO 10. The MIT Press. Series: Software Studies. 328 pages. ISBN-10: 0262018462. (Some chapters) **(Available as PDF on mittuib.no)**

C64 User Guide. (Available as PDF on mittuib.no)

There will be other material such as video clips, films, handouts and online resources (especially for the practical part in Arduino, Javascript, XML and BASIC). These are equally mandatory, and students are expected to be able to refer to the knowledge gained from them in class and at the exam.

From The New Media Reader:

Borges, Jorge Luis. 1941. The Garden of Forking Paths. (01)

Bush, Vannevar. 1945. As we may think. (02)

Turing, Allan. 1950. Computing Machine and Intelligence. (03)

Wiener, Norbert. 1954. Men, Machines and the World About. (04)

Licklider, Joseph Carl Robnett. 1960. Man-Computer Symbiosis. (05)

Nelson, Theodor. 1965. A file structure for the Complex, the Changing, and the Indeterminate. (11)

Engelbart, Douglas and William English. 1968. A Research Center for Augmenting Human Intellect. (16)

Weizenbaum, Joseph. 1976. Computer Power and Human Reason. From Judgment to Calculation. (24)

Deleuze, Gilles and Felix Guattari. 1980. A Thousand Plateaus. (27)

Papert, Seymour. 1980. Mindstorms. Children, Computers, and Powerful Ideas. (28)

Nelson, Theodor. 1981. Proposal for a Universal Electronic Publishing System and Archive. (30)

Stallmann, Richard. 1985. The GNU Manifesto. (36)

From the John Hopkins Guide to Digital Media.

The articles in John Hopkins Guide are to be announced.

In addition, the following articles are required reading. **(Available on mittuib.no as pdf):**

Cicconi, Sergio. 1999. "Hypertextuality". In Mediapolis, edited by Sam Inkinen. De Gruyter. pages 21-43.

Doumont, Jean-Luc. 2005. "The Cognitive Style of PowerPoint: Slides are not all evil". In *Technical Communication*. Volume 52, Issue 1, page 64.

Dretske, Fred. 2008. "The Metaphysics of Information". In *Philosophy of the Information Society: Vol.1. Proceedings of the 30th International Ludwig Wittgenstein-Symposium in Kirchberg am Wechsel, Austria 2007*. Edited by Alois Pichler and H. Hrachovec.

Flusser, Vilém. 1978. "The Codified World". In *Vilém Flusser Writings*, edited by Andreas Ströhl. University of Minnesota Press, 2004.

Shannon, Claude. 1948. "A Mathematical Theory of Communication". In *The Bell System Technical Journal*. Volume 27 (July-October 1948). pages 379-428. (Read the Introduction only)

Shirkey, Clay. 2005. "Ontology is Overrated".
http://www.shirky.com/writings/ontology_overrated.html

Smith, Barry. 2003. "Ontology" In *Blackwell Guide to the Philosophy of Computing and Information*, edited by Luciano Floridi. Blackwell. pages 155–166.

Tufte, Edward. 2003. *The cognitive Style of Power Point*. Graphics Press.

Turkle, Sherry. 2004. "How computers change the way we think". In *The Chronicle of Higher Education*, Section: The Chronicle Review. Volume 50, Issue 21, page B26. (dated January 30th 2004)

Expect a few more required readings on ethics in agreement with a guest lecturer.

Some recommended readings (referred to at the lectures)

Gleick, James. 2011. *The Information. A History. A Theory. A Flood*. Fourth Estate.

Floridi, Luciano. 2010. *Information. A Very Short Introduction*. Oxford. (chapters 1,2,4,8)

Pariser, Eli. 2011. *The Filter Bubble. What the Internet is hiding from you*. Penguin.

Standage, Tom. 1998. *The Victorian Internet: The Remarkable Story of the Telegraph and the Nineteenth Century's On-Line Pioneers*. Walker & Company.

Copeland, Jack. 2004. "Enigma". In *The Essential Turing: Seminal Writings in Computing, Logic, Philosophy, Artificial Intelligence, and Artificial Life plus The Secrets of Enigma*. Oxford University Press. pages 219–264.

Carr, Nicholas. 2011. *The Shallows. What the Internet Is Doing to Our Brains*. W. W. Norton & Company.