

SOS2900 - Pensum/læringskrav

Totalt: 1002 sider

NY: Oppgaver og løsninger i seminarene er å betrakte som pensum.

Maskinlæring:

@[BOK:] Berk, R. (2016) Statistical learning from a regression perspective, chapter 1, 3, 5, 9. Springer: <https://link.springer.com/book/10.1007%2F978-3-319-44048-4> (164) (Finnes også i papirversjon)

@Siegel, Eric (2011) Uplift modeling: Predictive analytics can't optimize marketing decisions without it. *The Prediction Impact white paper*, Pitney Bowes: <http://www.predictiveanalyticsworld.com/pdf/YTW03080USEN/Uplift-Modeling-Optimizes-Marketing-Decisions-White-Paper.pdf> (24 sider)

NY: @[BOK:] Luke, Douglas A. (2015) *A User's Guide to Network Analysis in R*, Springer, chapter 1, 2 og 7, <https://link.springer.com/book/10.1007%2F978-3-319-23883-8> (26 sider)

Dataproduksjon

NY: @Jae-Gil Lee, Minseo Kang (2015) "Geospatial Big Data: Challenges and Opportunities", *Big Data Research*, 2(2): 74-81, <http://dx.doi.org/10.1016/j.bdr.2015.01.003> (6 sider)

Schneier, Bruce (2015) "Data as a by-product of computing", i: *Data and Goliath*, New York: W.W. Norton & Company, (7 sider)

@van Dijck, José. (2014). "Datafication, dataism and dataveillance: Big Data between scientific paradigm and ideology", *Surveillance & Society* 12(2): 197-208. (11 sider)

Sosiologiske perspektiver:

@Golder, Scott A., and Michael W. Macy. (2014) "Digital footprints: Opportunities and challenges for online social research." *Annual Review of Sociology* 40. (23 sider)

@Gunderson, Ryan (2016) "The sociology of technology before the turn to technology", *Technology in society*, 47:40-48 (8 sider)

@Halford, S., Savage, M. (2017), Speaking Sociologically with Big Data: Symphonic Social Science and the Future for Big Data Research. *Sociology* DOI: 10.1177/0038038517698639. (17 sider)

@Krantzberg M. (1986) "Technology and history: 'Krantzberg's Laws' ", *Technology and culture*, 27(3): 544-560 (16 sider)

@McFarland, D.A., Lewis, K. & Goldberg, A. (2016) "Sociology in the Era of Big Data: The Ascent of Forensic Social Science", *American Sociologist*, 47(12): 12-35. doi:10.1007/s12108-015-9291-8 (20 sider)

NY: Metcalf, Jacob & Kate Crawford (2016) "Where are human subjects in Big Data research? The emerging ethics divide", *Big Data & Society*, 3(1): 1-14 (14 sider)
<http://journals.sagepub.com/doi/abs/10.1177/2053951716650211>

Overvåking:

@Golder, O.H. (2017). "Surveillance and the Formation of Public Policy". *Surveillance & Society* 15(1): 158-171. (13 sider)

@Esposti, S.D. (2014). "When big data meets dataveillance: The hidden side of analytics". *Surveillance & Society* 12(2):209-225 (16 sider)

@Lysne et al (2016) *Digitalt grenseforsvar (DGF), Lysne II utvalget*,
<https://www.regjeringen.no/globalassets/departementene/fd/dokumenter/lysne-ii-utvalgets-rapport-2016.pdf> (71 sider)

@Frade, Carlos (2016) "Social Theory and the Politics of Big Data and Method", *Sociology*, 50(5): 863-877, <http://journals.sagepub.com/doi/abs/10.1177/0038038515614186> (14 sider)

@Zwitter, A. (2014). Big Data ethics. *Big Data & Society* 1, DOI:10.1177/2053951714559253 . (6 sider)

Sosiale medier:

NY: [BOK:] Tufekci, Z (2017) *Twitter and tear gas. The power and fragility of networked protest*, Yale University Press, kapittel 1,2, 6, 9 og Epilogue (130 sider)

@Bennett, C.J. (2015). "Trends in Voter Surveillance in Western Societies: Privacy Intrusions and Democratic Implications". *Surveillance & Society* 13(3/4): 370-384. (14 sider)

@Bond, Robert M., et al. (2012) "A 61-million-person experiment in social influence and political mobilization." *Nature* 489.7415: 295-298. (4 sider)

@Brandsar, Torgeir, and Torkild Hovde Lyngstad. (2014) "Transaction data from social media: An introduction with an example on networks of members of the Norwegian parliament." *Tidsskrift for samfunnsforskning*, 55(1): 90-105. (15 sider)

@Kramer, Adam D. I., Jamie E. Guillory, and Jeffrey T. Hancock (2014), "Experimental evidence of massive-scale emotional contagion through social networks" *PNAS* 2014 111 (24): 8788-8790; doi:10.1073/pnas.1320040111 (3 sider)

Justisfeltet:

NY: [BOK:] Ferguson, AG (2017) *The rise of big data policing. Surveillance, race, and the future of law enforcement*, New York University press, kapittel 1, 2, 4, 10, Conclusion (72 sider)

@Berk, R (2016) "A Primer On Fairness in Criminal Justice Risk Assessments", *The criminologist*, 41(6): 6-9, http://www.asc41.com/Criminologist/2016/Nov-Dec_2016_TheCriminologist.pdf (3 sider)

@Berk, Richard A., Susan B. Sorenson, Geoffrey Barnes (2016) "Forecasting Domestic Violence: A Machine Learning Approach to Help Inform Arraignment Decisions", *Journal of empirical legal studies*, 13(1): 94-115 <http://onlinelibrary.wiley.com/doi/10.1111/jels.12098/abstract> (21 sider)

UT: @Leigh, J., Dunnett, S. & Jackson, L. Ann (2017). "Predictive police patrolling to target hotspots and cover response demand", *Operational Research*, doi:10.1007/s10479-017-2528-x (16 sider)

NY: Lum K. & W. Isaac (2016) "To predict and serve?", *Significance*, 13(5): 14-19 (5 sider)
<https://rss.onlinelibrary.wiley.com/doi/epdf/10.1111/j.1740-9713.2016.00960.x>

[G. O. Mohler, M. B. Short, Sean Malinowski, Mark Johnson, G. E. Tita, Andrea L. Bertozzi & P. J. Brantingham \(2015\) "Randomized Controlled Field Trials of Predictive Policing", *Journal of the American Statistical Association*, 110:512, 1399-1411, DOI: 10.1080/01621459.2015.1077710 \(12 sider\)](#)

Arbeidsliv:

@Frey and Osborne (2017) "The future of employment: How susceptible are jobs to computerisation?" *Technological Forecasting & Social Change* 114 (2017) 254–280 (26 sider)

@Srnicsek, N. (2017), The challenges of platform capitalism: Understanding the logic of a new business model. *Juncture*, 23: 254–257. doi:10.1111/newe.12023 (3 sider)

[BOK:] Susskind, Richard & Daniel Susskind (2015) *The future of the professions. How technology will transform the work of human experts*, UK: Oxford University Press (Utdrag: ca 150 sider)

NY: @Murphy, J. (2016) Quality of hire: Data makes the difference, *Employment relations*, 43(2): 5-15, <https://doi.org/10.1002/ert.21562> (10 sider)

NY: @KG King (2016) Data Analytics in Human Resources: A Case Study and Critical Review, *Human Resource Development Review* 2016, Vol. 15(4) 487 –495 (8 sider)

Andre anvendelser:

@Kosinski, Michal, and Yilun Wang. (2017). "Deep Neural Networks Are More Accurate Than Humans at Detecting Sexual Orientation from Facial Images." *PsyArXiv*. September 16. psyarxiv.com/hv28a. (47 sider)

NY: @Gelman, Andrew, Greggor Mattson, Daniel Simpson (2018) "Gaydar and the Fallacy of Decontextualized Measurement", *Sociological Science*, 5: 270-280, DOI:10.15195/v5.a12 (10 sider)

NY: @Thurston H. & S. Miyamoto (2018) The use of model based recursive partitioning as an analytic tool in child welfare, *Child abuse & neglect* 79: 293-301 (8sider)
<https://www.sciencedirect.com/science/article/pii/S0145213418300760>

NY: @Schwartz, I.M., P. York, E. Nowakowski-Sims, A. Ramos-Hernandez (2017) Predictive and prescriptive analytics, machine learning and child welfare risk assessment: The Broward County experience, *Children and youth services review*, 81: 309-20, (11 sider)
<https://www.sciencedirect.com/science/article/pii/S0190740917303523>