

A Researcher's Perspective on the GDPR 2018

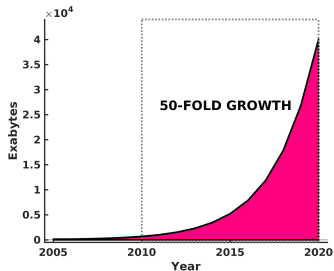
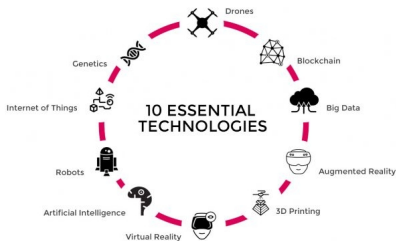
Legal Constraints on Data-driven SSH Research

Kristoffer L Nielbo
knielbo@sdu.dk
knielbo.github.io

datacube | Department of History | University of Southern Denmark

PROGRAM

0.00	Data, OD & initial concerns	deluge, obligations, culture
0.10	GDPR and scientific research	safeguards, exemptions, pseudonymization
0.20	Discussion	...



– the data deluge is transforming knowledge discovery and understanding in every domain of human inquiry

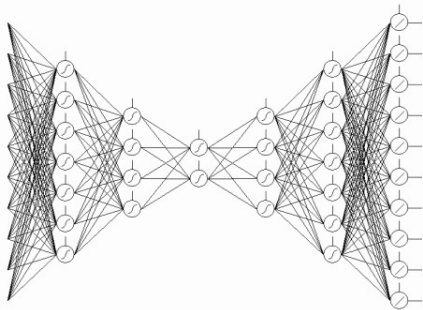
– knowledge discovery depends critically on advanced computing capabilities

a large part of these data are unstructured and fundamentally cultural

– we have limited experience with computational approaches and lack common standards for managing first- and third-party data

- with the advent of machine learning data combined with rich domain knowledge are our most valuable assets
- 'generic' benchmarking data sets are being replaced by domain relevant datasets
- probabilistic notions of 'fairness' (i.e., parity definitions) are challenged by impossibility results

GDPR grants users the right to a logical explanation of how algorithms use their data



DATA-RELATED CHALLENGES

data obligations

- personal data protection policies (e.g., GDPR) are basically a good thing
- intellectual property rights (e.g., copyright) can also be a good thing
- BUT both can be a hindrance to research

cultural issues

- develop an organisational culture of analytics
- computational and data literacy in SSH
- data silos at private and public data providers

OPEN DATA

we spend $\frac{1}{3}$ of the total global research budget on publishing and communicating results that 99% of people cannot access (DataCite|FORCE2017)

OD/ODbL

- share, create and adapt data irrespective of intellectual property rights, making data a public good
- improvement of human welfare >< ethics of privacy

make data-driven research more like open software

OD::GDPR

- GDPR is about returning ownership of data to the individual through explicit consent
- most controversial is delete and provide
- if data are kept in accordance with GDPR's safeguards, data *re-use* in research can become easier

General Data Protection Regulation|GDPR

summary

- protect privacy rights of the data subject
- harmonizing (R)DM practices within EU (Digital Single Market)
- exemptions for scientific, historical, health and statistical research
- data re-use and sensitive categories (~ override rights)→ **implement safeguards**

-
- making data protection a daily practice
 - processing of personal sensitive data for research shall be of public interest
 - provide adequate technical and organisational measures ensuring data protection



GDPR|scientific research

safeguards

- “conditions for exemptions”
- data protection by design
- technical and organizational measures in accordance with data minimisation
- pseudonymisation - personal data that is protected by coding and encryption
- Data Protection Officer (DPO) is mandatory (when large scale ¹ data collection is involved)

issues

- data re-use (~secondary use) should not be incompatible with initial collection (exemption for research)
- Big Data are not specified (and opposed to data minimization)
- cloud computing seems problematic
- data mining lacks apriori hypotheses, which complicates consent

Pseudonymization

definition

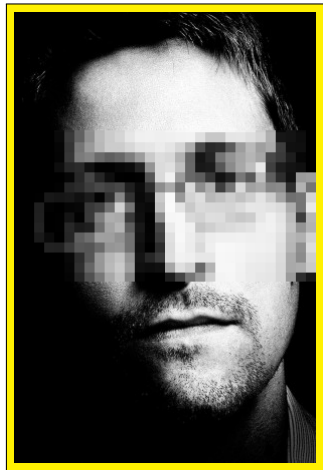
- data that cannot be attributed to data subject without additional data
- iow. removal of direct identifiers

anonymization

- not GDPR relevant
- removal of direct and indirect identifiers

why

- facilitate data re-use
- safeguard for scientific, historical and statistical purposes
- essential “by-design” feature
- used to meet data security requirements
- delete and provide is not necessary if data subject is not identifiable



SoMe example

data

- web-based and predominately unstructured data
- majority are publicly available
- often available through API

principles

- consent/opt-in policy
- parent consent
- right to be forgotten (delete and provide)

strategies

- ‘walled garden’ of Terms and Conditions
- but ‘silence, pre-ticked boxes or inactivity’ is inadequate to confer consent
- exempt from notice requirement, if data are from publicly available sources
- utilize anonymous data sources

THANK YOU

knielbo@sdu.dk

https://knielbo.github.io/files/kln_gdpr_dec17.pdf

& THANKS TO

Culture Analytics @ Institute of Pure and Applied Mathematics (UCLA)
especially Tina Eliassi-Rad