



SOCIAL MEDIA RESEARCH IN MEDICINE: CHALLENGES AND SOLUTIONS





CRISIS OF CLASSICAL METHODS OF DATA COLLECTION

PEOPLE ARE:



Distrustful(not giving information, not opening doors to interviewers etc.)



Busy (have no time for polls, install call blockers etc.)



Tired of the polls

ALTERNATIVES?













OUR EXPERIENCE

Digital sociology from 2017

PROJECTS:

- Opinions on vaccination
- Image of nurses
- Image of doctors
- Image of laboratory services
- Image of urological services
- Image of particular persons and organizations in Moscow healthcare and others

Latest: image of psychiatry and psychiatric services

70000+ Messages

9000+images

INSTRUMENTS:

Local program and custom python code

CHALLENGES

INCREASING AVOIDANCE OF PUBLICITY – LESS SPONTANEOUS SPEECH



Platforms' limitations



Fear to speak publicly, growth of private communication



Overrepresentation of certain groups in public spaces





Public accounts

CHALLENGES

DRAWBACKS OF DATA COLLECTION AND ANALYSIS SYSTEMS





Characteristics of the dataset obtained rely heavily on the data collection systems. Different systems – different general population?



Flaws of automatic sentiment and spam analysis



Not enough training data? But when will there be enough?



Social media analytics products are aimed at market research





CHALLENGES



RISE OF VISUAL CONTENT



Computer vision – are there solutions for sociology? How to analyze the context?

SAMPLING BIAS



Different access to Internet and social media for different groups



Different activity – overwhelming majority of social media users do not produce own content





IDEAS FOR

SOLUTIONS

Treat it like an info field, not representation of population

What quotas should one use to represent population? How to take into account different activity levels?

Use machine learning (lemmas' analysis, CV etc.) but understand its limitations

Use random sample:

Quantitative

In-depth analysis of 400-800 messages

Quantitative

Variety of opinions – good for pilot or data enrichment

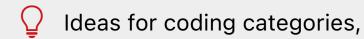




IDEAS FOR

SOLUTIONS

Use offline research



hypotheses



Work with images attached to to messages

CV – objects on the images

Colors and other parameters



Do not be afraid of spam, but analyze it separately







INFORMATION AND CONTACTS

FURTHER READING:

Bogdan IV, Gurylina MV. Four "Big" Stereotypes on Nurses in Mass Consciousness: on the Materials of the Moscow People Opinion Analysis in Social Media // Probl Sotsialnoi Gig Zdravookhranenniiai Istor Med. 2019 Aug;27(Special Issue):552-558. doi: 10.32687/0869-866X-2019-27-si1-552-558.

Bogdan IV, Gurylina MV, Chistiakova DP. The basics of health educational activities concerning vaccination in the Internet: "rational" advocates and "emotional" opponents// Probl Sotsialnoi Gig Zdravookhranenniiai Istor Med. 2019 Nov;27(6):1038-1042. doi: 10.32687/0869-866X-2019-27-6-1038-1042.

Russian articles - on demand

LOOKING FOR COOPERATION!

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