

# GIB Lecture Series: Geospatial Big Data and Societal Transformations

Tuesday 03.05.2022 | 16:15 - 17:45 | INF/ AI, H33

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## Valid statistics with amounts in geographic information

The question under which circumstances some statistical operation is valid, i.e., rightfully applicable to geographic information for a given purpose, is not only crucial for understanding and correctly applying statistics to spatial data, it is also a major bottleneck in automating data science in Geography and the Geosciences. Conceptual models of geographic information are required for both handling geodata resources as well as geographic question answering (geoQA). In this talk, I argue that we need better models of quantities in spatial information. I present a novel theory of geographic amounts that can be used to classify data sources and to constrain possible data transformations to those valid for a certain purpose.

### Further information:

[www.geographie.uni-bayreuth.de/de/Veranstaltungen/GIB-Lecture-Series/index.html](http://www.geographie.uni-bayreuth.de/de/Veranstaltungen/GIB-Lecture-Series/index.html)

