

# Engineering Standards and official statistics

Dr. Ansgar KOENE

*Senior Research Fellow, University of Nottingham, UK*

**Abstract.** The digitization of society through increasing use of the internet, digital devices (e.g. IoT), and digitally mediated services is generating ever larger digital footprints of the daily interactions of citizens. Responsible use of these new data sources however presents a number of challenges that need to be addressed in order to protect the integrity of the data produced by digitized societies. The first part of this paper discusses the importance of engineering standards for establishing norms and practices around compatibility, quality, security and ethics of data collection through digital devices and services. The second part discusses ways in which statisticians can play an important role in the development of new engineering standards, especially with regards to AI and Machine Learning.