

**Tabular Data Synthesizer (TDS) - Synthetic Data Generation**

**The proposal is best suited to the NCSRA III Privacy pillar and also is related to the Governance pillar.**

**TUD Lydia Chen, Tabular Data Synthesizer (TDS)**

Data is an extremely valuable commodity in today's society and the use of big data can have many benefits for several parts of this society. However, with the collection of data and the personal information that is often part of this data also comes the issue of privacy. Many rules and regulations, such as the GDPR, exist that protect the privacy of individuals and restrict the sharing of data between different organizations or different parts of organizations.

However, this restriction on sharing also has negative consequences. Long procedures and strict rules can slow down the innovative potential of companies, because it takes time for another part of an organization to access data that can be used to test hypothesis. Here, synthetic data can be really valuable, since it mimics the parameters of the actual data, while preserving the privacy of individuals. Thus, the value of data can be fully utilized, while there are no problems with privacy.