

Problems and Issues in Biodiversity Data Infrastructures

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The current biodiversity crisis has triggered an extreme need for a better understanding of the network of life on Earth. Efficient data management is crucial in biodiversity and is the backbone for a digital twin of past, present, and future life. The Research Data Commons (RDC) is the central cloud-based information system architecture of NFDI4Biodiversity, the consortia of the NFDI (Nationale Forschungsdateninfrastruktur) offering reliable biodiversity data and services for improving the conservation of global biodiversity.

This talk introduces the essential components of the RDC and provides an overview of research problems and issues we faced during its first development phase. As biodiversity is a data-intensive discipline with many heterogeneous small and large data sources following various metadata formats and collected from different research communities, the RDC faces massive data integration problems. Moreover, the derived data products also must obey specific criteria like the FAIR data principles. In summary, we see plenty of opportunities for the database community to address challenging research questions in an area highly relevant to society.

Type of Poster

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