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PhenoRob Data Management

Our poster presents the data management strategy of the cluster of excellence PhenoRob from the University of Bonn. PhenoRob is an interdisciplinary project that combines research from robotics and phenotyping and aims for sustainable crop production. Due to the interdisciplinarity, we deal with very heterogeneous data from different research fields, with multiple file formats, and varying sizes. To handle this data, we introduce a data concept that categorizes the data into three types: research data, metadata, and basis data. We consider research data to be data that is generated for a particular research task. Each research data set needs to be annotated with a metadata record. We want to emphasize that we developed the metadata scheme especially for the needs of PhenoRob, integrating existing metadata standards for geodata and plant phenotyping. The basis data comprises general information on the field sites that is of interest for many researchers. Our data management infrastructure can be accessed by the researchers via a web interface (www.phenoroam.phenorob.de).

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