BIO-CODES - Enhancing AI-Readiness of Bioimaging Data with Content-Based Identifiers



The BIO-CODES project aims to enhance the AI-readiness of bioimaging data by integrating the International Standard Content Code (ISCC), a content-based identifier and global ISO standard. This open identification system ensures transparency, accessibility, and broad adoption across the scientific community.



Solution Challenge Scientific Impact **Partners** Existing methods for BIO-CODES will evaluate the BIO-CODES will improve Leiden University, ISCC identifying and certifying ISCC standard (ISO 24138) transparency and Foundation bioimaging data lack the and its applicability to collaboration in bioimaging bioimaging data in Life robustness required for research by implementing standardized content generative Al models, which Science research. The primary objective is to assess compromises the integrity, identifiers in existing workflows. This will facilitate its feasibility and develop a reliability and scientific reproducibility of the data. proof-of-concept, data reuse, address ethical integrating ISCC into Closing these gaps is critical concerns in Al applications, platforms like OMERO to and enhance the reliability of to preserving the value of Al models in Life Sciences. bioimaging data and enhance FAIR compliance. reducing bias in Al-driven https://www.oscars-project.eu/projects/bio-codes-enhancing analyses. -ai-readiness-bioimaging-data-content-based-identifiers