It's All So Different: How to Deal with Multiple Data Models, Media Types, and Modalities in Big Data Management and Retrieval – Abstract

Heiko Schuldt¹

¹University of Basel, Switzerland

Abstract

Big data comes in many forms and facets, from large volumes of structured and unstructured data (e.g., large image and video collections) to very heterogeneous collections with data in different formats and data models, and in a wide variety of applications - from data analytics and machine learning to business applications and personal information management. In each of these cases, specific support for data management, processing, and retrieval is essential. In this talk, we will give an overview of the various challenges of data management in the age of big data and present selected big data projects of the Databases and Information Systems Research Group at the University of Basel that address these challenges: the polystore database management system Polypheny and the full-stack multimedia retrieval system vitrivr.

© 0224 Copyright for this paper by its authors. Use permitted under Attribution 4.0 International (CC BY 4.0).

CEUR COUT-WS.org
Workshop ISSN 1613-0073
Proceedings

^{35&}lt;sup>th</sup> GI-Workshop on Foundations of Databases (Grundlagen von Datenbanken), May 22-24, 2024, Herdecke, Germany.

heiko.schuldt@unibas.ch (H. Schuldt)

https://dbis.dmi.unibas.ch/team/heiko-schuldt/ (H. Schuldt)