

# Data Integration in the Life Sciences: 7th International Conference, DILS 2010, Gothenburg, Sweden, August 25-27, 2010. Proceedings (Lecture Notes in Computer Science)



The development and increasingly widespread deployment of high-throughput experimental methods in the life sciences is giving rise to numerous large, complex and valuable data resources. This foundation of experimental data underpins the systematic study of organisms and diseases, which increasingly depends on the development of models of biological systems. The development of these models often requires integration of diverse experimental data resources; once constructed, the models themselves become data and present new integration challenges for tasks such as interpretation, validation and comparison. The Data Integration in the Life Sciences (DILS) Conference series brings together data and knowledge management researchers from the computer science research community with bioinformaticians and computational biologists, to improve the understanding of how emerging data integration techniques can address requirements identified in the life sciences. DILS 2010 was the seventh event in the series and was held in Gothenburg, Sweden during August 25-27, 2010. The associated proceedings contain 14 peer-reviewed papers and 2 invited papers. The sessions addressed ontology engineering, and in particular, evolution, matching and debugging of ontologies, a key component for semantic integration; Web services as an important technology for data integration in the life sciences; data and text mining techniques for discovering and recognizing biomedical entities and relationships between these entities; and information management, introducing data integration solutions for different types of applications related to cancer, systems biology and microarray experimental data, and an approach for integrating ranked data in the life sciences.

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