

GeoSemantics

The goal of this project is to develop a framework rooted in semantic techniques to support the GeoScience “long-tail” models and data integration. The objective of this framework is to provide a knowledge-based platform that can be easily adopted across geoscience communities comprising of individual and small group researchers, to allow semantically heterogeneous system to interact with minimum human intervention. The outcomes of this project will introduce a cyber-infrastructure to close the loop from models queries' back to data sources in a seamless paradigm. The proposed work will pioneer the development of a robust knowledge framework that will: (i) minimize human intervention in semantic mediation; (ii) minimize the context ambiguity of data that advances a machine's physical interpretation of physical meaning embedded in the metadata; and (iii) automate the “crosswalks” between geoscience standard names.

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