Heterogeneities according to Bergman

Class	Category	Subcategory
STRUCTURAL	Naming	Case Sensitivity
		Synonyms
		Acronyms
		Homonyms
	Generalization / Specialization	
	Aggregation	Intra-aggregation
		Inter-aggregation
	Internal Path Discrepancy	
	Missing Item	Content Discrepancy
		Attribute List Discrepancy
		Missing Attribute
		Missing Content
	Element Ordering	
	Constraint Mismatch	
	Type Mismatch	
DOMAIN	SchematicDiscrepancy	Element-value to Element-label Mapping
		Attribute-value to Element-label Mapping
		Element-value to Attribute-label Mapping
		Attribute-value to Attribute-label Mapping
	Scale or Units	
	Precision	
	DataRepresentation	Primitive Data Type
		Data Format
DATA	Naming	Case Sensitivity
		Synonyms
		Acronyms
		Homonyms
	ID Mismatch or Missing ID	
	Missing Data	
	Incorrect Spelling	
LANGUAGE	Encoding	Ingest Encoding Mismatch
		Ingest Encoding Lacking
		Query Encoding Mismatch
		Query Encoding Lacking
	Languages	Script Mismatches
		Parsing / Morphological Analysis Errors (many)
		Syntactical Errors (many)
		Semantic Errors (many)

 « Bergman uses the classification system of Pluempitiwiriyawej and Hammer who were then working on heterogeneities in XML data sources. This classification exposes about 20 categories and about 40 subcategories of distinct heterogeneities. "

BERGMAN, M. Sources and classification of semantic heterogeneities. Web Blog: Al3-Adaptive Information, Adaptive Innovation, Adaptive Infrastructure, 2006.

PLUEMPITIWIRIYAWEJ, Charnyote et HAMMER, Joachim. A classification scheme for semantic and schematic heterogeneities in XML data sources. TR00-004, University of Florida, Gainesville, FL, 2000.

