





Ontologies

- Ontology Modeling
- Ontological Reasoning
- AI: Reasoning determined Modeling
- DB: Modeling first, Reasoning second
 - -->> Conceptual Modeling of Ontologies
 - -->> Contextual Ontologies

Ontologies Building

- Traditional Approaches:

 - Bottom-Up Integration / Federation
 Humans define how the world should be

 - 🔶 A priori
- Newest Approach:

 - Emergent Semantics
 (Peer-to-Peer Architecture)
 - Intelligent agents tell us how the world is
 - A posteriori

More Informative Data

- Spatio-temporal Information (pervasive)
- Metadata
- Quality Matters (uncertainty)

Location-Based Services

- Information Users are distributed and mobile
- Now: Information anywhere, anytime, for anybody
- Tomorrow: Information somewhere, sometime, for somebody

(at the right moment and place for the right user)

