





## **Conceptual Modeling**

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- Key problem: Have to give an unambiguous, easy to understand account of our understanding of an organization and how it works, also how the new system will fit in that organization.
- We can do so with English descriptions; but such descriptions are often cumbersome, incomplete, ambiguous and can lead to misunderstandings (...see next two slides!)
- As an alternative, we will use *conceptual models* (also called *visual models*) to describe proposed requirements and designs for the new system.
- Conceptual models (try to) capture people's understanding (conceptualization) of what is being modeled.
- Conceptual models are usually represented in terms of a graph structure.

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Information Systems Analysis and Design

## The Unified Modeling Language (UML)

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- Booch and Rumbaugh started working towards a unified modelling language (UML) in 1994 under the auspices of Rational Inc. They were later joined by Jacobson.
- UML only offers a notation, not a methodology for modeling (as various OOA techniques do).
- Combines Jacobson's use cases with Booch and Rumbaugh concepts for object modeling, along with statecharts.
- UML has been adopted by the Object Management Group (OMG) as an (object) modelling standard. OMG UML 1.0 is the first version of this new modelling standard.

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