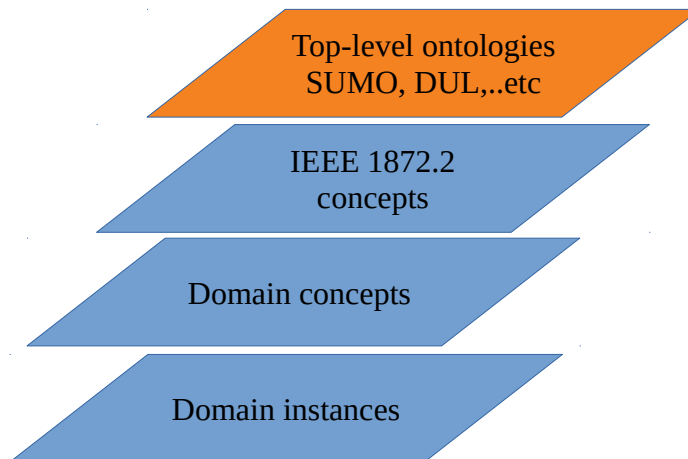


## Proposal for Section 8 Specialization Guidelines: Mohamed/Elisa/Alberto/Hiren/Edison

### Section 1: Knowledge structure:



The main purpose of this section is to answer those two main questions:

1. How the proposed concepts using owl format are represented? (concepts' hierarchy)
2. How owl can be imported/integrated with other ontologies?

### Section 2: Introduction to the case study

- Motivation example
- Why we need certain concepts for this case study specifically for this case study
- IEEE1872.1 concepts and their definitions
  - concepts from **CORA**
    - Robot --> to describe which robot is used
    - Robot Group --> to describe which group of robots are used
  - concepts from **Pos**
    - PoseMeasure --> to identify the feasible grasping poses and the position of the objects in the world.

### Section 3: Meta-level relations:

- Properties introduced in Meta-level:
  - IEEE1872.1 properties and their definitions
    - object **properties** from **Pos**:
      1. measure
      2. orientedAt
      3. pose
      4. positionedAt
  - Proposed properties and their definitions.
    - is Constituent
    - is Manifested By ,.....etc
  - How the meta-level concepts are related? (Natural language)

These aforementioned points will be supported with an example to obtain, in which sense the properties can be used.