

## Proposition of an Ontology of Diseases and Their Signs from Medical Ontologies Integration

**Authors :** Adama Sow, Abdoulaye Guiss'e, Oumar Niang

**Abstract :** To assist medical diagnosis, we propose a federation of several existing and open medical ontologies and terminologies. The goal is to merge the strengths of all these resources to provide clinicians the access to a variety of shared knowledges that can facilitate identification and association of human diseases and all of their available characteristic signs such as symptoms and clinical signs. This work results to an integration model loaded from target known ontologies of the bioportal platform such as DOID, MESH, and SNOMED for diseases selection, SYMP, and CSSO for all existing signs.

**Keywords :** medical decision, medical ontologies, ontologies integration, linked data, knowledge engineering, e-health system

**Conference Title :** ICKEDM 2018 : International Conference on Knowledge Engineering and Data Mining

**Conference Location :** Copenhagen, Denmark

**Conference Dates :** June 11-12, 2018