On-demand training in a professional environment from a repository of OER

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Problematic issues

Structure of knowledge: a key point in competencies development

Can we infer a description in terms of competencies?

We can formally describe it with a domain ontology
The dual face of the notion of competency

- Adapt individual for labour market
- Adapt learning for individuals
Three ways to define the competence

Knowledge in Use

- Toupin (1995)
- Maglaives (1990)
- Le Boterf (1994)

Knowledge system

- Guillevic (1991)
- Tardiff (1994)
- De Montmollin (1986)
- Samurçay et Pastré (1995)

Behavioral repertoire

- Lévy-Boyer (1996)
- Perrenoud (1997)

Dynamic design

Static design
An ontology as a common language between experts of statistics, computer scientists, psychologists and digital archivists

http://stato-ontology.org/ (Gonzalez & al, 2014)

- Number of classes: 678
- Number of individuals: 13
- Number of properties: 53
- Maximum depth: 14

http://purl.bioontology.org/ontology/STATO
Instrumentalisation of STATO

Vocabulaires

Items

Collections

Publication

http://demo.sempiternelia.com/ontostats/s/consulter-les-ressources/page/Accueil
Conclusion and some examples

- Competencies description based on an ontology
- Ontology entries as educational resources
- A way for on-demand training and adaptive learning

- Ontology entry
- Information about concept and associated OER
- A request on ontology
- Describe analysis need and associated OER
- Organise OER in a curriculum
- Publication
Takk for din oppmerksomhet

Merci pour votre attention

Thanks for your attention

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