Contributing to the definition of a method for the development of Dublin Core Application Profiles

Mariana Curado Malta*
Supervisors: Ana Alice Baptista (DSI/UMinho) & Cristina Parente (FLUP)
*mariana.malta@algoritmi.uminho.pt

Introduction

- Context of the Semantic Web
- A metadata Application Profile (AP): technique used to adapt to the specific needs of a certain community [Lynch, 1997].
- DCAP: a very important instrument to implement semantic interoperability

Problem

- There is no method to develop a DCAP [Curado Malta and Baptista, 2012]
- Only guidelines available to develop a DCAP:
  - Singapore Framework – Baker et al. (2008)
  - None is a method
- Project aims: to contribute to the definition of a Method for the development of Dublin Core Application Profiles - Me4DCAP

Research Methodology

- Design science research (DSR)
- DSR aims at the development of innovative artifacts [Simon, 1996]:
  - constructs, models, methods, or instantiations of these 3 artifacts [Hevner, 2007]
- Project's artifact: a method (Me4DCAP)
- DSR approach by Hevner (2007)
- Me4DCAP is in the “exaptation quadrant” - c.f. Gregor and Hevner (2013)

Contributions

- A new Method: Method for the development of Dublin Core Application Profiles (Me4DCAP)
- A new DCAP (DCAP-SSE) for the world community of social and solidarity economy web based information systems

Work done until July 2013

- State of the art of the Web Based Information Systems of the Social and Solidarity Economy – c.f. Curado Malta and Baptista (2013a)
- State of the art of the Metadata Application Profiles of the last decade - paper submitted to the International Journal of Metadata, Semantics and Ontologies; under revisions.
- State of the art on methodologies for the development of a metadata application profile - c.f. Curado Malta and Baptista (2012) and Curado Malta and Baptista (2013b)
- Publication of Me4DCAP – c.f. Curado Malta and Baptista (2013c) and Curado Malta and Baptista (2013d)
- Development of DCAP-SSE (still under construction)
- Validation of Me4DCAP:
  - Non-formal validation of V0.1
  - Preparation of the Focus Groups for validation of V0.2.

Work to be done

<table>
<thead>
<tr>
<th>WHAT</th>
<th>END</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCAP-SSE development</td>
<td>December 2013</td>
</tr>
<tr>
<td>2 Focus Groups</td>
<td>October 2013</td>
</tr>
<tr>
<td>Writing the thesis</td>
<td>April 2014</td>
</tr>
</tbody>
</table>

Bibliography

See abstract