Reviewer’s report

Title: AGUIA - Autonomous Graphic User Interface Assembly - for clinical trial semantic data services

Version: 2 Date: 14 July 2010

Reviewer: Ronald Cornet

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Major Compulsory Revisions

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The manuscript has improved as it has become clearer what the work was that the authors have done. However, still the structure needs improvement, and there are many spelling errors (which is somewhat disappointing given that this is a resubmission which was proofread according to the authors), which need to be corrected.

Regarding the structure, I suggest a clearer subdivision of the various sections. The part of the introduction starting at line 140 describes how the work was done. The paper would benefit from a more theoretical approach: What do you want? How do you do that? In this case: first, definition of a GBox (reference to 20 (Motik) should be given much earlier). Then implementation of a "rendering engine" (AGUIA). Finally, testing/evaluating the environment with data of 1369 patients.

If this subdivision is used throughout the document, it will become much clearer. Now it seems to go from definition to testing back to motivation.

Spelling errors:

Line 47-49
Furthermore, it uses a HTTP-REST protocol is a SPARQL endpoint, and is in the public domain with open source and in the public domain, which facilitates development and dissemination.

Public domain is mentioned twice, and a comma seems to be missing after "protocol".

Line 53 "describing over 1,369 patients" --> "describing 1,369 patients".

Line 100 "graphic rules that describing" should read "graphic rules that describe"

Line 102 "The web application is able of assembled itself" should read "The web application is able of assembling a GUI"

Line 103 "through of this" should read "through this"
Line 107 "through of" should read "through"

Line 117 "Through the CTSDS is possible capture" should read "Through the CTSDS it is possible to capture"

Line 121 "a protocol that autonomously assembles"
I disagree that a protocol does the assembly. It "drives" the assembly, but tools are needed that "implement" the protocol

Line 125 "Semantic web technologies" awkward capitalization. Either "Semantic Web" or "semantic web", I assume the journal prefers the latter.

Line 129, 215,217,222,247,310,312: "exemple" should read "example". This was pointed out in the original submission already, and claimed to be corrected by the authors

Line 131-135 "SKOS [7] is a simple RDF schema for knowledge organization systems (KOS) such as thesauri, classification schemes, subject heading systems and taxonomies within the framework of the Semantic Web. It provides a standard way to represent knowledge organization systems using the 135 Resource Description Framework (RDF)."

These 2 sentences convey the same. Remove one of them.

Line 153: "Web Site interfaces" should read "web site interfaces"

Line 154-155: "as noted by other authors Lei et al." --> "as noted by Lei et al."

Line 162: "to be bee created" --> "to be created"

Line 198: "the hypothesis than" --> "the hypothesis that"

Line 218,267: "through of" should read "through"

Line 223: "offer support ActiveX" --> "offer support for ActiveX"

Line 230: "GUI actions e GUI rules" --> "GUI actions and GUI rules"

Line 258: "expected from be" please correct

Line 327 (and other occasions): "graphic user interface" --> "graphical user interface". Again, the authors said this was corrected, but apparently it isn't.

reference 20 is Motik , not Motic

**Level of interest:** An article whose findings are important to those with closely
related research interests

**Quality of written English:** Not suitable for publication unless extensively edited

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I declare that I have no competing interests