

An Ontological Software Comprehension Process Model

Submitted by [rene](#) [1] on Thu, 2010-08-12 07:27

- [ontological reasoning](#) [2]
- [Process Modeling](#) [3]
- [process modeling](#) [4]
- [program comprehension](#) [5]
- [Semantic Software Engineering](#) [6]
- [Software Maintenance](#) [7]
- [Ontology](#) [8]

Title	{ An Ontological Software Comprehension Process Model }
Publication Type	Conference Paper
Year of Publication	2006
Refereed Designation	Refereed
Authors	Meng, W. J. [9], J. Rilling [10], Y. Zhang [11], R. Witte [12], and P. Charland [13]
Conference Name	3rd International Workshop on Metamodels, Schemas, Grammars, and Ontologies for Reverse Engineering (ATEM 2006)
Date Published	October 1st
Conference Location	Genoa, Italy
Keywords	ontological reasoning [14], process modeling [15], program comprehension [16], Software Maintenance [17]
Abstract	Comprehension is an essential part of software maintenance. Only software that is well understood can evolve in a controlled manner. In this paper, we present a formal process model to support the comprehension of software systems by using Ontology and Description Logic. This formal representation supports the use of reasoning services across different knowledge resources and therefore, enables us to provide users with guidance during the comprehension process that is context sensitive to their particular comprehension task.
Notes	This paper received the best paper award, jointly with our second ATEM 2006 contribution.
URL	http://planetmde.org/atem2006/atem06Proceedings.pdf [18]
Copyright	Copyright © 2006 Wen Jun Meng, Juergen Rilling, Yonggang Zhang, René Witte, and Philippe Charland.
Attachment	Size
Meng etal-ATEM2006.pdf [19]	567.3 KB



Except where otherwise noted, all original content on this site is copyright by its author and licensed under a [Creative Commons Attribution-Share Alike 2.5 Canada License](#).

Source URL (retrieved on 2025-12-21 23:04):

<https://www.semanticsoftware.info/biblio/ontological-software-comprehension-process-model>

Links:

- [1] <https://www.semanticsoftware.info/users/rene>
- [2] <https://www.semanticsoftware.info/category/blog-tags/ontological-reasoning>
- [3] <https://www.semanticsoftware.info/category/topic/process-modeling>
- [4] <https://www.semanticsoftware.info/category/blog-tags/process-modeling>
- [5] <https://www.semanticsoftware.info/category/blog-tags/program-comprehension>
- [6] <https://www.semanticsoftware.info/category/project/semantic-software-engineering>
- [7] <https://www.semanticsoftware.info/category/blog-tags/software-maintenance>
- [8] <https://www.semanticsoftware.info/category/topic/ontology>
- [9] <https://www.semanticsoftware.info/biblio/author/33>
- [10] <https://www.semanticsoftware.info/biblio/author/10>
- [11] <https://www.semanticsoftware.info/biblio/author/34>
- [12] <https://www.semanticsoftware.info/biblio/author/1>
- [13] <https://www.semanticsoftware.info/biblio/author/13>
- [14] <https://www.semanticsoftware.info/biblio/keyword/34>
- [15] <https://www.semanticsoftware.info/biblio/keyword/33>
- [16] <https://www.semanticsoftware.info/biblio/keyword/36>
- [17] <https://www.semanticsoftware.info/biblio/keyword/31>
- [18] <http://planetmde.org/atem2006/atem06Proceedings.pdf>
- [19] https://www.semanticsoftware.info/system/files/Meng_etal-ATEM2006.pdf