



T2.5 Library creation and management support for ontology design patterns

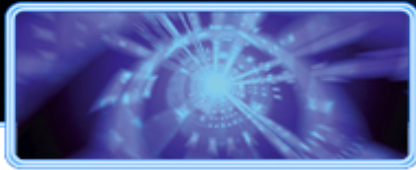
Re-engineering patterns

Mari Carmen Suárez-Figueroa
Boris Villazón-Terrazas



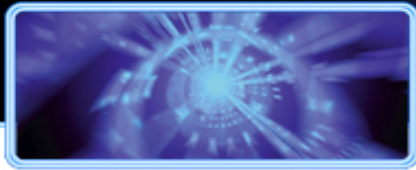
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Ontology Engineering Group. Laboratorio de Inteligencia Artificial
Facultad de Informática
Universidad Politécnica de Madrid

June, 2009



ToC

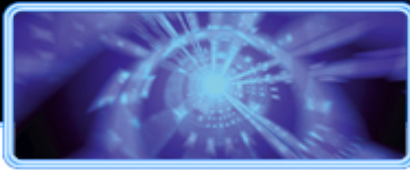
- To extend the Web catalog of ODP with PR-NOR
- Propose a template for Re-engineering patterns
- Propose a template for Schema re-engineering ODP
- Latest version of the Re-engineering ODP
 - Post a Re-engineering OP
 - Review Form



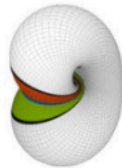
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To extend the Web catalog of ODP with Re-engineering Patterns (PR-NORs)



PR-NOR



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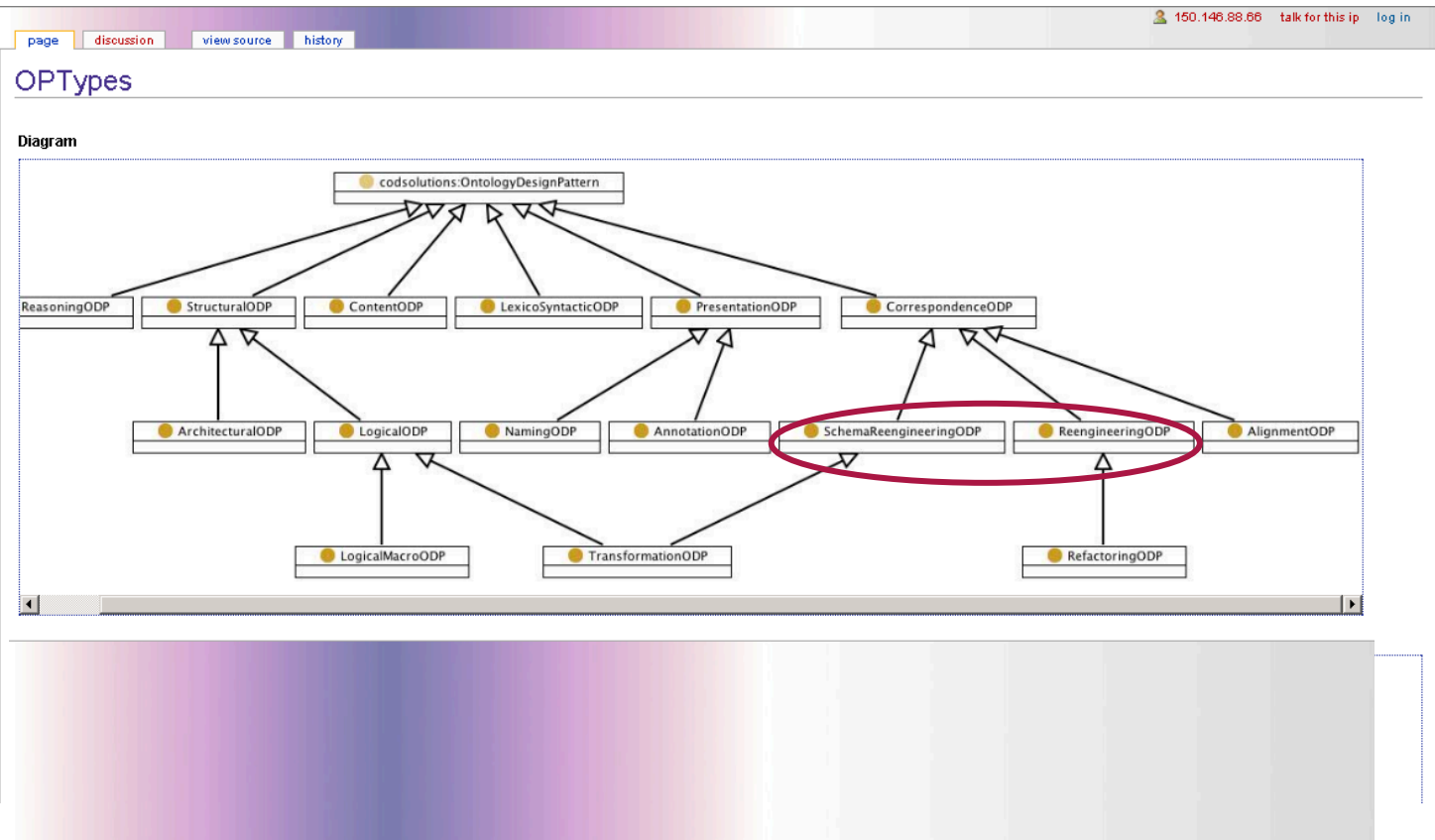
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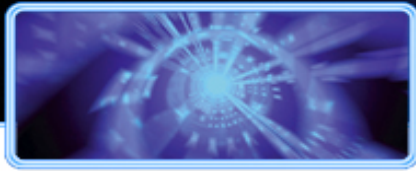
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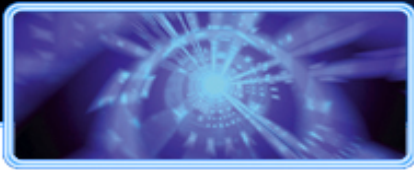
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ToC

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Propose a template for Re-engineering patterns

Earlier version PR-NORs (UPM)

Slot	Value
General Information	
Name	Name of the pattern
Identifier	An acronym composed of component type + abbreviated name of the component + number (For example: PR-NOR-TSLO-01)
Component Type	Re-engineering OP (Schema Re-engineering Pattern OP, or Refactoring OP, or another Re-engineering OP)
Use Case	
General	Description in natural language of the re-engineering problem addressed by the pattern.
Example	Description in natural language of an example of the re-engineering problem.
Re-engineering OP	
INPUT(S)	
General	Description in natural language of the input.
Example	Description in natural language of an example of the input.
Web Reference	Link to a website which holds the input.
Graphical Representation	
General	Graphical representation of the input. (Image or URL)
Example	Graphical representation of the example of the input. (Image or URL)
OUTPUT(S)	
General	Description in natural language of the output after applying the pattern.
Graphical Representation	
General Solution	Graphical representation (optional: using the UML profile [BH06]) of the output generated. (Image or URL)
Example Solution	Example showing a graphical representation (optional: using the UML profile [BH06]), of the output generated. (Image or URL)
PROCESS (Optional)	
General	Description in natural language of the general process, using a sequence of activities.
Workflow	Graphical representation of the sequence of activities. (Image or URL).
Example	Description in natural language of the process applied to the input example, using the above sequence of activities.
Implementation (Optional)	
Description	Brief description of the software library
Web Reference	Link to a website which holds the code for an implementation of the pattern. (URL)

Mandatory fields are marked by: *

Re-engineering OP Proposal
Metadata
Free text

General Information

Name: *

Identifier: *

Component Type: *

Use Case

General: *

Example: *

Input

General: *

Example: *

Web Reference: *

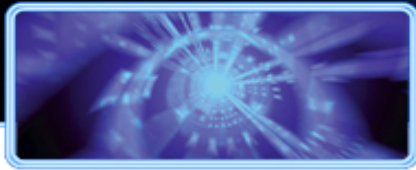
Graphical Representation - General: *

Graphical Representation - Example: *



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Propose a template for Schema re-engineering ODP

Earlier version PR-NORs

I. Pattern

Slot	Value
General Information	
Name	Name of the pattern
Use Case	
General	Description in natural language of the re-engineering problem addressed by the pattern.
Re-engineering OP	
INPUT(S)	
General	Description in natural language of the input.
Graphical Representation	
General	Graphical representation of the input. (Image or URL)
OUTPUT(S)	
General	Description in natural language of the output after applying the pattern.
Graphical Representation	
General Solution	Graphical representation (optional: using the UML profile [BH06]) of the output generated. (Image or URL)
PROCESS (Optional)	
General	Description in natural language of the general process, using a sequence of activities.
Workflow	Graphical representation of the sequence of activities. (Image or URL).
Implementation (Optional)	
Description	Brief description of the software library
Web Reference	Link to a website which holds the code for an implementation of the pattern. (URL)

II. Example

Use Case	
Example	Description in natural language of an example of the re-engineering problem.
INPUT(S)	
Example	Description in natural language of an example of the input.
Web Reference	Link to a website which holds the input.
Graphical Representation	
Example	Graphical representation of the example of the input. (Image or URL)
OUTPUT(S)	
Graphical Representation	
Example Solution	Example showing a graphical representation (optional: using the UML profile [BH06]), of the output generated. (Image or URL)
PROCESS (Optional)	
Example	Description in natural language of the process applied to the input example, using the sequence of activities described in the pattern

III. Metadata

Slot	Value
Identifier	An acronym composed of component type + abbreviated name of the component + number (For example: PR-NOR-TSLO-01)
Pattern Type	Re-engineering OP (Schema Re-engineering Pattern OP, or Refactoring OP, or another Re-engineering OP)
Author	Author of the pattern
Also known as	Alternative name(s) of the pattern
Domain(optional)	Domain of the pattern
Known uses	Known uses of the pattern
Related to	Related patterns
Other References	Other references

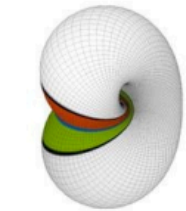


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Post a Re-engineering OP

<http://ontologydesignpatterns.org/testarea>



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contribute

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ontology

BorisVillazón-Terrazas my talk my preferences my watchlist my contributions log out

submissions discussion edit history delete move protect watch refresh

Submissions:ProposeRP



If you want to follow the recommended procedure for posting a Re-engineering Ontology Design Pattern proposal, please go through next eight steps

Contents [hide]

- 1 Recommended Procedure for Posting Re-engineering OP proposals
 - 1.1 Step 1: Do you have a picture depicting a diagrammatic view of the non-ontological resource?
 - 1.2 Step 2: Do you have a picture depicting a diagrammatic view of the ontology generated?
 - 1.3 Step 3: Do you have a picture depicting a diagrammatic view of the general sequence of activities of the pattern?
 - 1.4 Step 4: Do you have a picture depicting a diagrammatic view of the example of the non-ontological resource?
 - 1.5 Step 5: Do you have a picture depicting a diagrammatic view of the example of the ontology generated?
 - 1.6 Step 6: Do you have a picture depicting a diagrammatic view of the general sequence of activities of the pattern for the example?
 - 1.7 Step 7: Submit your pattern
 - 1.8 Step 8: Review

Recommended Procedure for Posting Re-engineering OP proposals

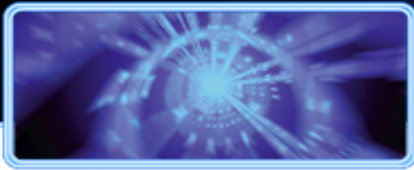
Step 1: Do you have a picture depicting a diagrammatic view of the non-ontological resource?

- Yes: upload it and remember the name of the picture file.
- No: it is recommended to have it.

Step 2: Do you have a picture depicting a diagrammatic view of the ontology generated?

- Yes: upload it and remember the name of the picture file.
- No: it is recommended to have it.

Step 3: Do you have a picture depicting a diagrammatic view of the general sequence of activities of the pattern?



Post a Re-engineering OP

http://ontologydesignpatterns.org/testarea/Special:AddData/Re-engineering_OP_Proposal_Form/Submit_Re-engineeringOP

Re-engineering OP Proposal Example Additional Information

General Information

Name ? : *

Problem ? : *

Non-Ontological Resource

Description ? : *

Graphical Representation ? : *

Ontology

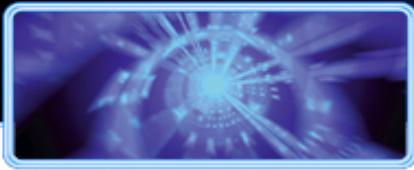
Description ? : *

Graphical Representation ? : *

Solution

Description ? : *

Graphical Representation ? : *




Post a Re-engineering OP


http://ontologydesignpatterns.org/testarea/Special:AddData/Re-engineering_OP_Proposal_Form/Submit_Re-engineeringOP


Re-engineering OP Proposal Example Additional Information


Scenario

Description  : *


Non-Ontological Resource


Description  : *


Graphical Representation  : *

Web Reference  : *


Ontology


Description  : *

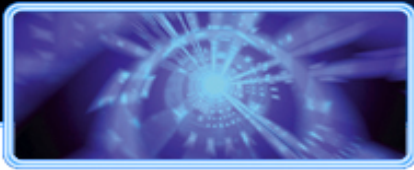
Graphical Representation  : *

Web Reference  : *

Solution

Description  : *

Graphical Representation  : *



Post a Re-engineering OP

http://ontologydesignpatterns.org/testarea/Special:AddData/Re-engineering_OP_Proposal_Form/Submit_Re-engineeringOP

Re-engineering OP Proposal Example **Additional Information**

Additional Information

Author ? : *

Also known As ? :

Known uses ? :

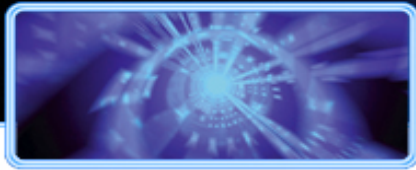
Related to ? :

Other References ? :



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Review Form

- The same as the Content OP

New review

Submitted By  : **BorisVillazón-Terrazas**

Content ODP Being Reviewed  : AbundanceLevelDemo

Revision ID  : 4050


Please enter your review below.


A review can contain comments about the content of the pattern, or its presentation in the portal.

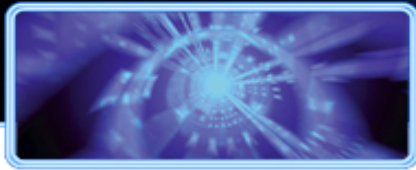
Content issues could be related to problems or errors in the pattern, how the pattern relates to best practices, if the pattern is relevant, if it is too general or too specific and so on.

Presentation issues can be related to the understandability of the pattern description, how clear the description is and if there is missing information.

Thank you for contributing!

Review  :





Issues

- Since the re-engineering patterns are not ontologies by themselves (as Content Patterns), do we still need the annotation schema? how to apply it?



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Re-engineering patterns

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