GA

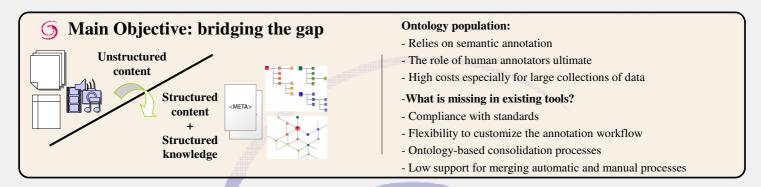


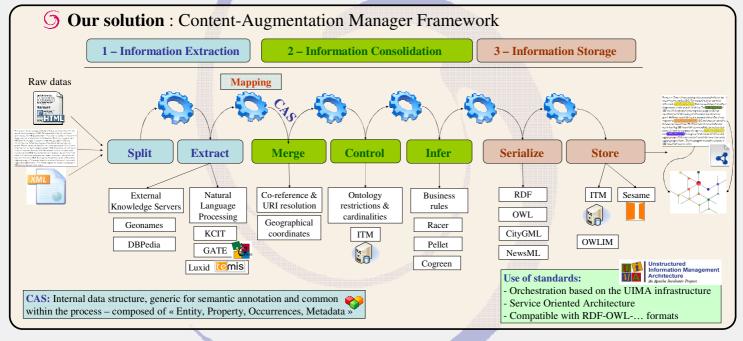


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CA Manager Framework: Creating Customised Workflows for Ontology Population and Semantic Annotation





S Evaluation of consolidation algorithms

Methodology:

1) 64 GATE software artefacts annotated (with regards to the GATE ontology) by humans to create gold standard

- 2) Improving the tool based on comparing results with the gold standard
- 3) Select another 20 documents to serve as a representative corpus
- 4) Information extraction evaluation based on KCIT performance

	Precision	Recall
4 Forum posts	98.6111111	100.0
7 chapters of the GATE User Manual	96.0007672	96.9611548
2 Web pages	94.379845	95.0787402
3 publications	89.796798	95.8392268
3 java classes	97.2592593	98.8636364
1 GATE application developers guide	96.484375	98.4063745
Total	94.2830463	96.8763326

5) Information consolidation evaluation

Kb instances 208 0 64 1 0,765	0,867
Annotations 168 0 12 1 0,933	0,965

O Created workflows in existing projects

project	ontology	corpus	CA tool	repository
	PROTON	news article	regular expressions	Sesame
ΤΑΟ	GATE onto	gate artefacts	KCIT	Sesame
	GATE onto	gate artefacts	KCIT	ITM
Terradata	Architectural ontology (3D objects)	3D objects	DBPedia and Geonames web services	ITM
VigiTermes	Adverse Drug Effect ontology	PubMed abstracts	Luxid (Temis)	ITM
Eiffel	Tourism ontology	Touristic web sites	TimeFrame (Univ Paris X)	ITM
Microbio	MiRNA ontology	PubMed articles	FunGen Discovery (INSERM)	Sesame

•Opensource: <u>http://sourceforge.net/ projects/scan-ca-manager</u> •Testing interface: <u>http://client2.mmondeca.com/scan</u>