

≡ Community Knowledge Graph (CKG)

- A CKG is a central infrastructure which acquires, integrates, shares and manages knowledge in the community by mainly describing real world entities and their
- interrelations, organized in a graph,
 ii. based on possible classes and relations of entities in an community knowledge schema,
- ensuring all basic functions through specific support processes and roles.
- Hereby it
- iv. allows for potentially interrelating arbitrary entities with each other,
 v. covers a multitude of community-related domains, and eventually may generate new knowledge by analysis and reasoning.







Line of research	Exemplary work	Research objectives	Main findings	Applicability
Meta data extraction	Adding semantics to digital libraries [Aslam e.a., OTM 2016]	Provide meta data in a standard-based, reusable and structured way	Linked open data publications framework	Applicable for bibliographical and ohter metadata
Collaborative annotation	OpenResearch collaborative management [Vahdati e.a., EKAW 2016]	Enrich structured data about scholarly papers and/or related events	Data model, System architecture based on SMW, LOD services	Applicable for result of qualitative analysi
Production of natively structured data	RASH framework enabling HTML+RDF submissions [Di Iorio e.a., ISWC 2015]	Establish standards, formats and frameworks for natively providing structured data	Specification for writing research articles in simplified HTML (RASH)	May be applicable in the future – when more publications ar natively structured
Text analysis, data mining and machine learning	Knowledge extraction from scientific publications [Ronzano, Saggion, SAVE-SD 2016]	Elicitation of inner semantics hidden in texts, figures and other unstructured data	Dr. Inventor Text Mining Framework for automated analysis of scientific publications	May be partly applicable – if a fittin "gold standard" becomes available











