**Springer Nature SciGraph**

Data Sets

**Ontologies**

* Contains the Springer Nature SciGraph Core Ontology
* Implemented as an OWL 2 ontology, with a DL expressivity ALHIF(D).
* Consists of 45 classes and 26 properties
* Lives within its own SciGraph namespace
  + http://www.springernature.com/scigraph/ontologies/core/, prefix sg:

**Articles**

* Provides bibliographic metadata for the complete set of Springer Nature journal articles for the past five years (2012 – 2016).
* Includes abstracts, information about authors and affiliations.
* Within this dataset there are links to the SciGraph subjects dataset and to ANZSRC Field of Research codes. In some cases affiliation strings have been disambiguated with GRID identifiers

**Grants**

* Provides metadata about research grants (including abstracts) linked to Springer Nature articles
* Research grants are categorized using ANZSRC Field of Research codes.
* Funding and recipient organizations are also marked with GRID identifiers

**Journals**

* Provides metadata about the complete set of Springer Nature journals.
* The model, similarly to BIBFRAME, maintains a fundamental distinction between product level journal info (as expressed by ISSNs) and journal brand level (the more abstract work).

**Subjects**

* Provides the custom-built categorization of scholarly subject areas.
* Includes subject terms of varying levels of specificity such as *Biological Sciences* (top level, *Cancer* (level 2), or *B-2 Cells* (level 7).
* Contains 2,500+ subject terms, organized into a polyhierarchical tree using the SKOS vocabulary.

Classes and Properties

**Class: Affiliation**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Property** | **Datatype** | **Example** |
| (*Type*) | rdf:type | sg:Affiliation | sg:Affiliation |
| (*ID*) | sg:scigraphId | xsd:string | “ee0bc4b9b66…” |
| ***Name*** |  |  |  |
| Name | sg:publishedName | xsd:string | “Org Name” |
| ***Organization*** |  |  |  |
| Order | sg:order | xsd:integer | 1 |
| Organization | sg:hasOrganization | rdfs:Resource | http://www.grid.ac/… |

**Class: Article**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Property** | **Datatype** | **Example** |
| (*Type*) | rdf:type | sg:Contribution | sg:Contribution |
| (*ID*) | sg:scigraphId | xsd:string | “98b6a65500b4…” |
| ***Identity*** |  |  |  |
| DOI | sg:doi | xsd:string | “10.1038/npjschz.2014.6” |
| DOI Link | sg:doiLink | rdfs:Resource | http://dx.doi.org/… |
| ***Label*** |  |  |  |
| Language (Original) | sg:language | xsd:string | “English |
| Title | sg:title | xsd:string | “Title …” |
| Abstract | sg:abstract | xsd:string | “Description …” |
| Title (Translated) | sg:titleTranslated | rdf:langString | “Title …”@en |
| Abstract (Translated) | sg:abstractTranslated | rdf:langString | “Description …”@en |
| ***Contributor*** |  |  |  |
| Contributor | sg:hasContribution | sg:Contribution | constributions:… |
| ***Publisher*** |  |  |  |
| Year | sg:publicationYear | xsd:gYear | “2014”^^xsd:gYear |
| Year Month | sg:publicationYearMonth | xsd:gYearMonth | “2014-07”^^xsd:gYearMonth |
| Date | sg:publicationDate | xsd:date | “2014-07-21”^^xsd:date |
| Webpage | sg:webpage | rdfs:Resource | http://… |
| ***Description*** |  |  |  |
| FOR Code | sg:hasFieldOfResearchCode | rdfs:Resource | http://purl.org/au-research/vocabulary/anzsrc-for/… |
| Subject | sg:hasSubject | sg:Subject | subjects:… |
| ***Source*** |  |  |  |
| Journal | sg:hasJournal | sg:Journal | journals:… |
| Volume | sg:volume | xsd:string | “12” |
| Issue | sg:issue | xsd:string | “134” |

**Class: Contribution**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Property** | **Datatype** | **Example** |
| (*Type*) | rdf:type | sg:Contribution | sg:Contribution |
| (*ID*) | sg:scigraphId | xsd:string | “98b6a65500b4…” |
| ***Name*** |  |  |  |
| Family Name | sg:publishedFamilyName | xsd:string | “Family Name” |
| Given Name | sg:publishedGivenName | xsd:string | “Given Name” |
| Name | sg:publishedName | xsd:string | “Full Name” |
| ***Other*** |  |  |  |
| Corresponding? | sg:isCorresponding | xsd:boolean | true |
| Order | sg:order | xsd:integer | 1 |
| Role | sg:role | xsd:string | “editor” |
| ***Affiliation*** |  |  |  |
| Affiliation | sg:hasAffiliation | sg:Affiliation | affiliations:… |

**Class: Grant**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Property** | **Datatype** | **Example** |
| (*Type*) | rdf:type | sg:Grant | sg:Grant |
| (*ID*) | sg:scigraphId | xsd:string | “81dc9bdb52d04…” |
| ***Label*** |  |  |  |
| Language (Original) | sg:language | xsd:string | “English” |
| Title | sg:title | xsd:string | “Title …” |
| Abstract | sg:abstract | xsd:string | “Description …” |
| Title  (Translated) | sg:titleTranslated | rdf:langString | “Title …”@en |
| Abstract (Translated) | sg:abstractTranslated | rdf:langString | “Description …”@en |
| ***Contributor*** |  |  |  |
| PI | sg:hasContribution | sg:Contribution | contributors:… |
| ***Funder*** |  |  |  |
| Funding Amount | sg:fundingAmount | xsd:decimal | 13021970.0 |
| Funding Currency | sg:fundingCurrency | xsd:string | “USD” |
| Funder | sg:hasFundingOrganization | rdfs:Resource | http://grid.ac/… |
| Recipient | sg:hasRecipientOrganization | rdfs:Resource | http://grid.ac/… |
| Start Year | sg:startYear | xsd:gYear | “2007”^^xsd:gYear |
| End Year | sg:endYear | xsd:gYear | “2014”^^xsd:gYear |
| License | sg:license | xsd:string | “…” |
| Web Page | sg:webpage | rdfs:Resource | http://… |
| ***Description*** |  |  |  |
| FOR Code | sg:hasFieldOfResearchCode | rdfs:Resource | http://purl.org/au-research/… |
| ***Publication*** |  |  |  |
| Publication | sg:hasFundedPublication | sg:Article | articles:… |