

Data

Pre-processing

authorkeys.txt OutputKConversion.java

| | | |
|-------|----------------------|---|
| A1 | Marco Balduini | http://dblp.org/pers/b/Balduini:Marco |
| A2 | Emanuele Della Valle | http://dblp.org/pers/v/Valle:Emanuele_Della |
| A3 | Jean-Paul Calbimonte | http://dblp.org/pers/c/Calbimonte:Jean=Paul |
| A4 | Marco Brambilla | http://dblp.org/pers/b/Brambilla_0001:Marco |
| A5 | Daniele Dell'Aglio | http://dblp.org/pers/d/Dell=Aglio:Daniele |
| [...] | | |

papers.txt OutputKConversion.java

| | | | | | | | |
|-------|--|---|------|-----|-----|-------|-------|
| 1 | [TripleWave: Spreading RDF Streams ...] | 7 | 2016 | A3 | A5 | A4 | [...] |
| 2 | [Where Are the RDF Streams?: On ...] | 6 | 2015 | A3 | A5 | A1 | [...] |
| 3 | [Multilingual Word Sense Disambiguation ...] | 3 | 2014 | A10 | A9 | [...] | [...] |
| 4 | [Semantic Rule Filtering for Web-Scale ...] | 6 | 2013 | A12 | A14 | A13 | [...] |
| [...] | | | | | | | |

Directory **dblp_papers** ProcessDBLPData.java

ma.nt:

[...]
<<http://dblp.org/rec/conf/seus/SatoON07>> <<http://www.w3.org/2002/07/owl#sameAs>>
 <http://dx.doi.org/10.1007/978-3-540-75664-4_53> .
<<http://dblp.org/rec/conf/seus/SatoON07>> <<http://dblp.org/rdf/schema-2017-04-18#title>>
 "Building a Customizable User Interface Framework Using Hyperlinks for Smart
 Devices."
[...]

Directory **dblp_confs** ProcessDBLPData.java

ma.nt:

[...]
<<http://dblp.org/rec/conf/seus/2007>> <<http://www.w3.org/2002/07/owl#sameAs>>
 <<urn:isbn:978-3-540-75663-7>> .
<<http://dblp.org/rec/conf/seus/2007>> <<http://dblp.org/rdf/schema-2017-04-18#title>>
 "Software Technologies for Embedded and Ubiquitous Systems, 5th IFIP WG 10.2
 International Workshop, SEUS 2007, Santorini Island, Greece, May 2007. Revised
 Papers" .
[...]

s2_papers.txt ProcessSemanticScholarData.java

```
{ "entities": ["Algorithm", "Database", "Database schema...", "journalVolume": "",
  "journalPages": "", "pmid": "", "year": 2011, "
  outCitations": ["870b288638a4da4eeab54a62a66cbf17616dd5bd..."],
  "s2Url": "https://semanticscholar.org/paper/49dc0af8636ca3d8721fd42b2b2...",
  "s2PdfUrl": "http://pdfs.semanticscholar.org/cde5/e08eb8a5d061354bd55....pdf",
  "id": "49dc0af8636ca3d8721fd42b2b25c0140a5c076d",
  "authors": [{"name": "Manuel Rodriguez-Mancha", "ids": ["2764195"]}, ...],
  "journalName": "", "paperAbstract": "In order to aid domain experts during data...",
  "inCitations": [], "pdfUrls": ["http://ceur-ws.org/Vol-814/om2011_poster5.pdf", ...],
  "title": "Mapping relational databases through ontology matching: a case study ...",
  "doi": "", "sources": ["DBLP"], "doiUrl": "", "venue": "OM" }
{ "entities": ["ISWC", "Semantic Web"], "journalVolume": "1750", "journalPages": "", [...]
[...]
```

Directory selectedpredictions/ ProcessClusters.java

Subdirectory 27/

27Auth-Conf_graph-3758-0.2500-0.1479.txt:

| | | | |
|-------|-------|--------|------|
| A138 | C2007 | 0.0714 | edge |
| A138 | C2008 | 0.0714 | edge |
| A27 | C2007 | 0.1429 | edge |
| A27 | C2008 | 0.0714 | edge |
| A1253 | C2007 | 0.2143 | edge |

similarauthors.txt ProcessClusters.java

```
A138
A1253 A27 A935 A454 A140
0.278177458034 0.257534246575 0.434163701068 0.257950530035 0.487084870849
A140
A138 A27 A454 A447 ...
0.487084870849 0.287822878229 0.31550802139 0.3203125 ...
[...]
```

```
A87
A663
0.267489711934
```

Directory filteredclusters/ CollaborationFiler.java

Subdirectory 27/

27Auth-Conf_graph-3758-0.2500-0.1479.txt:

| | | | |
|------|-------|--------|------|
| A138 | C2007 | 0.0714 | edge |
| A138 | C2008 | 0.0714 | edge |
| A27 | C2007 | 0.1429 | edge |
| A27 | C2008 | 0.0714 | edge |

similarauthors_new.txt

CollaborationFilter.java

A5

A140

0.289473684211

A24

A455

0.258196721311

A88

A455

0.273224043716

A136

0.257534246575

A138

0.251101321586

A931

0.265017667845

[...]

[...]

A138

0.287822878229

[...]

Paper Recommendation

authors.txt RetrieveData.java

| | | | | | | | | | | |
|-------|------------------------|---|-----|-----|-----|-----|-----|------|-------|------|
| A1 | [Marco Balduini] | 1 | 2 | 191 | 192 | 193 | 194 | 659 | 1848 | 2777 |
| A2 | [Emanuele Della Valle] | 1 | 2 | 191 | 192 | 193 | 194 | 359 | [...] | |
| A3 | [Jean-Paul Calbimonte] | 1 | 2 | 50 | 404 | 405 | 406 | 407 | [...] | |
| A4 | [Marco Brambilla] | 1 | 359 | | | | | | | |
| A5 | [Daniele Dell'Aglia] | 1 | 2 | 459 | 658 | 659 | 660 | 2777 | 3043 | |
| [...] | | | | | | | | | | |

papers keywords.txt RetrieveData.java

| | | | | |
|-------|--|------|---------------------------------|-------|
| 1 | [TripleWave: Spreading RDF Streams on the Web] | 2016 | [World Wide Web] | |
| A3 | A5 A4 A7 A2 A1 A6 | | | |
| 2 | [Where Are the RDF Streams?: ...] | 2015 | [Resource Description Frame...] | [...] |
| A3 | A5 A1 A7 A6 A2 | | | |
| 3 | [Multilingual Word Sense Disambiguation ...] | 2014 | [Entity linking] | [...] |
| A10 | A9 A8 | | | |
| 4 | [Semantic Rule Filtering for Web-Scale ...] | 2013 | [Relationship extraction] | [...] |
| A12 | A14 A13 A9 A10 A11 | | | |
| [...] | | | | |

p_recommendations suffix.txt PaperRecommendation.java

| | | | |
|--------------------|--------------------|---------------------|-------|
| A2 | | | |
| 2195 | 917 | 2057 | [...] |
| 0.9520078635648124 | 0.6262652893072232 | 0.6262652893072232 | [...] |
| A27 | | | |
| 2550 | 773 | 678 | [...] |
| 0.6822035323517934 | 0.6729690135366934 | 0.35517254588848685 | [...] |
| [...] | | | |

p_recommendations suffix.js PaperRecommendation.java

```
var PRecA138s95 = {
  "id": "A138",
  "numrecommendations": 85,
  "papers": [{
    "number": 678,
    "year": 2016,
    "title": "DBpedia Mappings Quality Assessment",
    "weight": 0.487084870849,
    "authors": [
      {"id": "A458", "name": "Sebastian Hellmann", "weight": 0.0}, [...]
      {"id": "A137", "name": "Dimitris Kontokostas", "weight": 0.0}
    ]
    "topics": [
      {"keyword": "DBpedia"}, [...]
      {"keyword": "Crostatata"}
    ]
  }, [...]
];
```

Venue Recommendation

authorconfs.txt

RetrieveData.java

| | | | | | | |
|-------|--------|-------|-------|--------|-------|-------|
| A87 | CE1027 | CE121 | CE904 | CE444 | CE857 | [...] |
| A929 | CE372 | CE362 | CE747 | CE878 | CE369 | [...] |
| A27 | CE654 | CE236 | CE444 | CE235 | CE372 | [...] |
| A447 | CE444 | CE615 | CE95 | CE869 | CE855 | [...] |
| A568 | CE582 | CE362 | CE369 | CE1054 | CE862 | [...] |
| [...] | | | | | | |

venues.txt

RetrieveData.java

| | | | |
|-------|----------|--|---------------|
| V1 | ACMicec | [International Conference on Electronic Commerce (ICEC)] | CE1 |
| V2 | IEEEares | [International Conference on Availability, ...] | CE2 |
| V3 | aaai | [AAAI Conference on Artificial Intelligence (AAAI)] | CE3 CE4 [...] |
| V4 | aaaifs | [AAAI Fall Symposia] | CE19 |
| [...] | | | |

conferences.txt

RetrieveData.java

| | |
|-------|--|
| [...] | |
| CE23 | http://dblp.org/rec/conf/aaaiss/2012-6 V5 2012 [Wisdom of the Crowd, ...] [AAAI Technical Report] |
| CE24 | http://dblp.org/rec/conf/adbis/2015w V6 2015 [New Trends in ...] [Communications in Computer and Information Science] |
| CE25 | http://dblp.org/rec/conf/ae/2007 V7 2008 [Artificial Evolution, 8th International Conference ...] [Lecture Notes in Computer Science] |
| [...] | |

v_recommendations_suffix.txt

VenueRecommendation.java

| | | | | |
|----------------|----------------|----------------|----------------|-------|
| A138 | | | | |
| V215 | V201 | V160 | V300 | [...] |
| 0.487084870849 | 0.487084870849 | 0.487084870849 | 0.487084870849 | [...] |
| A140 | | | | |
| V23 | V4 | V325 | V51 | [...] |
| 0.539215686275 | 0.539215686275 | 0.539215686275 | 0.539215686275 | [...] |
| [...] | | | | |

v_recommendations_suffix.js

VenueRecommendation.java

```
var VRecA138s95 = {"id":"A138","name":"Sören Auer",
  "recommendations":[{"venueid":"V215",
    "venueName":"International Conference on Intelligent Systems ...
    "conferences":[{"id":"CE573","name":"11th International Conf...", "year":2011,
      "simAuthors":[{"id":"A140", "name":"Jens Lehmann", "weight":0.487084870849}]}]},
    {"venueid":"V201", ...}...]}];
[...]
```

Visualization KORONA

selectauthor.txt

```
A2    Emanuele Della Valle
A27   Axel Polleres
A87   Maria-Esther Vidal
[...]
```

selectauthor.js ListToJS.java

```
var selectauthor.txt = {
  file: "selectauthor.txt",
  size: 8,
  entities: [
    {id: "A2", name: "Emanuele Della Valle"},
    {id: "A27", name: "Axel Polleres"},
    {id: "A87", name: "Maria-Esther Vidal"},
    [...],
    {id: "A296", name: "Olaf Hartig"},
    {id: "A1450", name: "Christoph Lange"}
  ]
};
```

network_prefix.js ClustersToJS.java

```
[...]
var A1641s95 = {
  id:"A1641",
  clusters: [
    { nodes: [
      { id: "C2006", name: "ISWC2006", group: 3 },
      { id: "A1641", name: "Elena Paslaru Bontas Simperl", group: 1 },
      { id: "A1838", name: "Lyndon J. B. Nixon", group: 2 }
    ], links: [
      { source: "A1641", target: "C2006", value: 0.0714 },
      { source: "A1838", target: "C2006", value: 0.0714 }
    ]},
    { nodes: [
      { id: "C2007", name: "ISWC2007", group: 3 },
      { id: "C2008", name: "ISWC2008", group: 3 },
      { id: "A1641", name: "Elena Paslaru Bontas Simperl", group: 1 },
      { id: "A2894", name: "Reto Krummenacher", group: 2 },
      { id: "A1838", name: "Lyndon J. B. Nixon", group: 2 }
    ], links: [
      { source: "A1641", target: "C2007", value: 0.1429 },
      { source: "A2894", target: "C2007", value: 0.1429 },
      { source: "A1838", target: "C2008", value: 0.0714 }
    ]}
  ]}
};
[...]
```