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Joffrey Decourselle

To cite this version:
Joffrey Decourselle. Case-oriented Semantic Enrichment of Bibliographic Entities. Theory and Practice of Digital Libraries, Sep 2016, Hannover, Germany. hal-01346830v2

HAL Id: hal-01346830
https://hal.archives-ouvertes.fr/hal-01346830v2
Submitted on 3 Oct 2016

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Case-oriented Semantic Enrichment of Bibliographic Entities

Joffrey Decourselle
Université Claude Bernard Lyon1, LIRIS CNRS UMR5205 – France – joffrey.decourselle@liris.cnrs.fr

Context
Evolution of Digital Libraries towards Semantic technologies requires to migrate and enrich the existing bibliographic records. Yet building theses processes is still a very challenging task...

Semantic Enrichment Process

Challenges
- Tuning of FRBRisation tools
- Information Extraction
- Entity Matching
- Knowledge Fusion

Contributions
- Benchmark for the interpretation of bibliographic records
- Design of a Case-oriented model
  - Based on FRBR and bibliographic patterns
  - Hierarchical dependency between cases
- Case-based enrichment process with Linked Open Data

Focus on the Case-oriented model

Characteristics of a case
- Describes a bibliographic pattern
- Contains conditions and mappings
- Managed independently

Benefits of the model
- Eases the design of migration rules
- Prevents useless computations
- Facilitates the extraction of entities from catalog or external sources

References