

Specification - Snowball Metrics in CERIF XML

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Introduction

This document contains a short description of the CERIF XML specification for Snowball Metrics. This serves to specify how Snowball Metrics are represented in CERIF XML as “Measurements”, which allows machines-readable transfer of data (values) in the Snowball Metrics framework. Hence, this specification only addresses how to represent and store Snowball Metrics in CERIF XML, and not how to calculate Snowball Metrics in CERIF.

Relevant Resources are:

- The CERIF 1.5 Specification
<http://www.eurocris.org/Index.php?page=CERIF-1.5&t=1>
- The Snowball Metrics Recipe Book

Using this specification requires prior and through knowledge of CERIF and CERIF XML.

The main artefacts of the specification are contained in the archive:

<date>_Snowball_Metrics_for_CERIF_XML_version_<version>.zip

Archive Contents

Specification of Snowball Metric relevant semantics (Classification and Classification Schemes):

Snowball_CERIF1.5_Semantics_<revision_date>.xls

Definition of Snowball Metrics (as CERIF indicators):

snowball_Indicators_<revision_date>.xml

Examples of Data Sources in CERIF XML:

snowball_DataSources_examples_<revision_date>.xml

Concrete examples of Snowball Metrics in CERIF XML:

snowballH-Index_Institution1example_<revision_date>.xml

snowballApplicationsVolume_Institution1example_<revision_date>.xml

snowballIncomeVolume_Institution1example_<revision_date>.xml

snowballApplicationsVolume_Institution2example_<revision_date>.xml

snowballMarketShare_Institution1example_<revision_date>.xml

snowballAwardsVolume_Institution1example_<revision_date>.xml

snowballOutputsInTopPercentile_Institution1example_<revision_date>.xml

snowballCitationCount_Institution1example_<revision_date>.xml

snowballScholarlyOutput_Institution1example_<revision_date>.xml

snowballCollaboration_Institution1example_<revision_date>.xml

snowballField-WeightedCitationImpact_Institution1example_<revision_date>.xml

The Anatomy of Snowball Metrics in CERIF XML

A Snowball Metrics “message” in CERIF XML contains two elements:

1. Definition of the submitting institution, as a <cfOrgUnit>
2. A number of Measurements – the individual Snowball Metrics – as <cfMeas>.

The general structure of each <cfMeas> can be seen in the examples (listed above). The important part is the classifications <cfMeas_Class> on <cfMeas>, which are used to specify denominators and the time-scale of a given metric. The specific Snowball Metric is specified using <cfIndic_Meas>, i.e. a reference to the actual Snowball Metric (represented as an CERIF indicator).

Furthermore, <cfSrv_Meas> is used to specify the “source” of the data (e.g. a CRIS, Scopus, etc.).

Revisions

Version 1.0: Initial version

Version 1.1: Changed snowball_Indicators_<revision_date>.xml into a hierarchical structure, various cleanups