Persistent identifiers: ORCiD

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Not Found

The requested URL /theses/phd/1995.html was not found on this server.
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Problem: link rot
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Problem: link rot
One remedy: persistent identifier
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One remedy: persistent identifier
most well-known: DOI
URI: Uniform Resource Identifier

• String of characters identifying a resource

• 2 functions:
  – name
  – localize

• Most common form: URL

• Less often used: URN
URI syntax

<scheme>:<hierarchical part>[?query][#<fragment>]

• **URI scheme**
  – Protocols like http, ftp, mailto...
  – File
  – RDF ressources, XML name space...
  – Specifies a concrete syntax

• **Hierarchical part**
  – “//”
  – Authority: hostname
  – path
URL: Uniform Resource Locator

“web address”

- Identifies a resource
- allows to obtain a representation of it
  - Specifies network location
  - Specifies access mechanism
URN: Uniform Resource Name

• Provides a mechanism for identifying a resource in a particular namespace
  – E.g. urn:isbn:<isbn>

• Does not specify location or access method
Digital Object Identifier

Digital identifier of an object

• Persistent identifier for all research artefacts
• Established in 2000
• Managed by International DOI Foundation (IDF)
• Federation of registry agencies worldwide
• Actionable, interoperable
DOI syntax

Character string: `<prefix>>/<suffix>`

- **Prefix:**
  - identifies registrant of the DOI
  - Usually 10.NNNN (at least 4 numbers)

- **Suffix:**
  - chosen by registrant
  - Most legal Unicode characters allowed

- Resolved e.g. by https://dx.doi.org/<doi> or https://doi.org/<doi>.
DOI benefits

• Persistent identification of an object
  – Does not depend on location
• No disambiguity
• Associated metadata
  – May be updated any time
CrossRef enables DOI assignment for the following content items:

- Journals/working papers: journal title, volume, issue and article
- Books: book series, title, chapter/section/entry
- Conference proceedings: multi-volume title, title, paper
- Components: sub-items of journal articles, book chapters/entries and conference papers including figures, tables, graphs and supplemental data
- Databases
- Dissertations
- Standards
- Data Sets and Data Elements
Datacite

• Persistent identifiers (DOIs) for research data
• Global non-profit organization
• DOIs allocated by Datacite members
  – Currently 55 registration agencies
• Membership fee 8.500 Euro p.a.
• Members charge own fee for DOIs
• > 14.6 million DOIs allocated
• Data centers register with a registration agency
Growth of DOIs

- ~175 million DOIs assigned (Sep 2018)
- +30% in 2 years

http://dashboard.project-thor.eu/dashboard/

DOI fact sheet