

Named Entity Recognition and Disambiguation

Entity extraction and disambiguation is the task of determining the identity of entities mentioned in a text against a knowledge base. The identification and resolution of named-entities like person-name, location, etc. provides many practical applications, e.g. possibility to extract lists of people, to map different texts, to generate timelines and to provide an enhanced search. This is of great importance not only for research but also for the publishing process.

INRIA Entity-Fishing and its Advantages

Entity-fishing, the NERD implementation developed by INRIA, is a service available within the DARIAH-EU infrastructure and used by the HIRMEOS partners to enrich Open Access digital monographs published on five digital platforms.

- No requirement for expertise in knowledge engineering
- Multilingual support (currently it supports 5 languages: en, es, it, fr, de)
- Standard REST API

The mosaic of the Transfiguration in the apse of the Church of the Virgin Mary in the Monastery of St Katherine (Fig. 13), on is the most majestic of preserved ancient examples of early images of the Transfiguration.³¹ This type reflects the influence of the new theology of the Transfiguration that reached its full development with Maximus the Confessor.³² The inclusion of the three apostles

30 C.B. Tkacz, *The Key to the Brescia Casket* (Notre Dame 2001) 42.

31 M. Bernabò, *Il Tetraevangelio di Rabula: Firenze, Biblioteca Mediceo Laurenziana, Plat. 1.56: l'illustrazione del Nuovo Testamento nella Siria del VI Secolo* (Roma 2008); M. Jeremias, *Die Hölzer der Basilika S. Sabina in Rom* (Tübingen 1980) 77-80.

32 The three earliest images — from Brescia, Santa Sabina and illustration of the Rabula Gospels are commonly known as pre-Sinaitic images of the Transfiguration of Christ (J.M. Spieser, 'Le Programme iconographique des Portes de Sainte-Sabine', *Journal des Savants* [1991] 63-69).

33 E. Dinkler, *Das Apokryphon von S. Apollinare in Classe* (Cologno 1964) 32-34.

34 Apocalyptic notes are combined with the image of the Holy Cross in the centre of heaven, which in turn points out the historical incident during the victory over Rom, the founder of the Byzantine Empire — St. Constantine the Great. The presence of a symbol of the Lamb of God is like the lamb used for Christ as depicted in the first three centuries when Christians were persecuted (in this case depicted as a substitute for the image of 12 Apostles). It seems that the artist did not try to recreate a segment of physical reality, but rather used complex symbolism to convey the fully developed Christian dogma (G. Schiller, *Iconography of*

MOSAIC

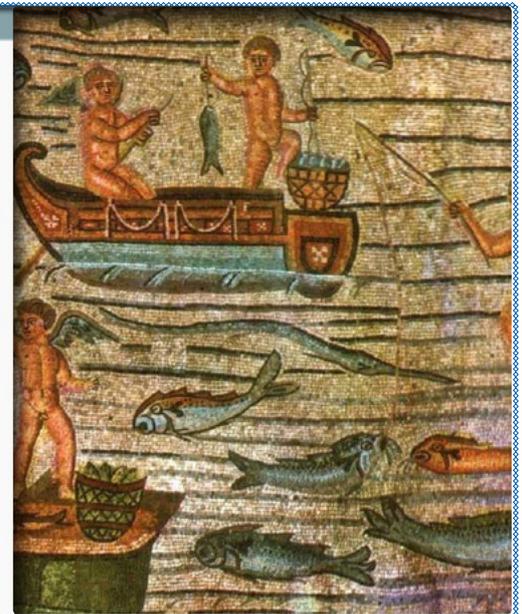
Normalized Mosaic
Domains: Artisanship,
Architecture
conf: 0.6179



W:Table A mosaic is a piece of art or image made from the assemblage of small pieces of colored glass, stone, or other materials. It is often used in decorative art or as interior decoration. Most mosaics are made of small, flat, roughly square, pieces of stone or glass of different colors, known as tesserae. Some, especially floor mosaics, are made of small rounded pieces of stone, and called "pebble mosaics". Others are made of other materials.

Commons category	Mosaics
BNGF Thesaurus	13094
image	Arabischer Mosaik um 690 002.jpg
topic's main category	Mosaics
NEL_Adm ID	00567890
subclass of	Q4502142
Freebase ID	/m/0qmk4
AAT ID	300015342
PSH ID	11732
described by source	Armenian Soviet Encyclopedia
instance of	Q11177771
GND ID	4040311-7
Cultural Wbworderbank identifier	kunst-166-de-renaissance/ermosaiek
JSTOR topic ID	mosaic
UNESCO Thesaurus ID	concept11738

References:   



Typical Use Cases on Open Access Digital Platforms

HIRMEOS partners have tested the integration of the NERD API in the workflow of publishing platforms to enhance discoverability and usage of enriched digital monographs.

- Enhancing the discoverability of monographs through facets linked with the concepts extracted
- Aggregation of extracted entities: e.g., word clouds helping to understand the trending topics, author topic evolution, co-authorship or collaboration evolution, etc.
- Classification or clustering to automatically generate collections
- Highlighting annotated entities with different colours and showing pop-up definitions

What can I do with Entity-Fishing?

- Entity extraction and resolution against Wikidata and Wikipedia in a raw text or partially-annotated text segment
- Entity extraction and resolution in a PDF as an overlay on the original text
- Disambiguation of a search query
- Access to the Wikidata metamodel containing more than 35m entities and 154m statements
- Interactive disambiguation in text

More Information

Do you want to know more about NERD services and the HIRMEOS implementations of the INRIA *entity-fishing*? Visit www.hirmeos.eu and subscribe to our newsletter.



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