



Aalto University  
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# Publishing and Using Biographies on the Semantic Web as Data

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# Publishing Biographical Information

Information is collected:

- from various sources
- in different formats
- building a comprehensive biographical description

Collecting and publishing information as linked open data:

- in an uniform format
- for visualizing the data
  - to historical research
  - to the large public
- digital history research
  - in a machine readable format
  - for prosopographical analyze

# Publishing Biographical Information 2

- Data model
  - CIDOC-CRM -based actor-event-model
- Publishing printed biographical register as LOD
  - Interlinking the resources (family relations, occupations ...)
  - linking to LOD Cloud (Wikidata, DBpedia, ULAN ...)
- Web applications
  - SPARQL Faceter
  - Chart visualizations
  - Map-Timeline applications

# Web Applications

## Vanhat Norssit

The screenshot displays the National Biography of Finland website. The top navigation bar includes 'Vanhat Norssit ry', 'Teemat', and 'Ohje'. A search bar is present with the text 'Vanhat Norssit semanttisessa webissä'. The main content area is divided into several sections:

- Search Results:** A table with columns for 'Nimi', 'Norssi', and 'Linkit'. It lists individuals like Väinö Alfred Blomstedt (1887-1888) and Johan Edward Rein (1887-1891).
- Filters:** On the left, there are filters for 'Linkit' (Wikipedia, Sotasampo, Kirjasampo, etc.), 'Sukunimi', and 'Syntymäpaikka'.
- Search Interface:** A search bar with the text 'Poista kaikki valinnat' and a 'Haku' button.
- Grid of Profiles:** A grid of individual profiles, each with a photo and a brief bio. Visible profiles include Jenni Hauko, Jutta Urpilainen, Marko Lehtosaari, Jyrki Katainen, Uusula ja Tuomi-Länsmän, Reko Lundin, Anes Hajjar, and Linus Torvalds.

## National Biography of Finland

# Future Work

- **Visualizations**

- Charts
- Group map-timeline -application

- **Support for prosopographical analyzes**

- Information retrieval
- Network analysis
- Knowledge discovery
- Dynamic analysis

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Norssi-dataa t-SNE-klusteroituna