

NewsEye Project

Seeks Significant Scientific Advances in Several
Directions

23.10.2018 HELDIG

Juha Rautiainen - The National Library of Finland
Ruben Ros - University of Helsinki



The NewsEye project has received funding from the
European Union's Horizon 2020 research and innovation
programme under grant agreement no. 770299.



NewsEye

- is an inter-, multidisciplinary and multilingual research project.
- develops tools and methods for effective exploration and exploitation of digital newspapers by means of new technologies.
- was launched in May 2018 and ends in April 2021.
- is funded by the European Union's Horizon 2020 research and innovation programme.



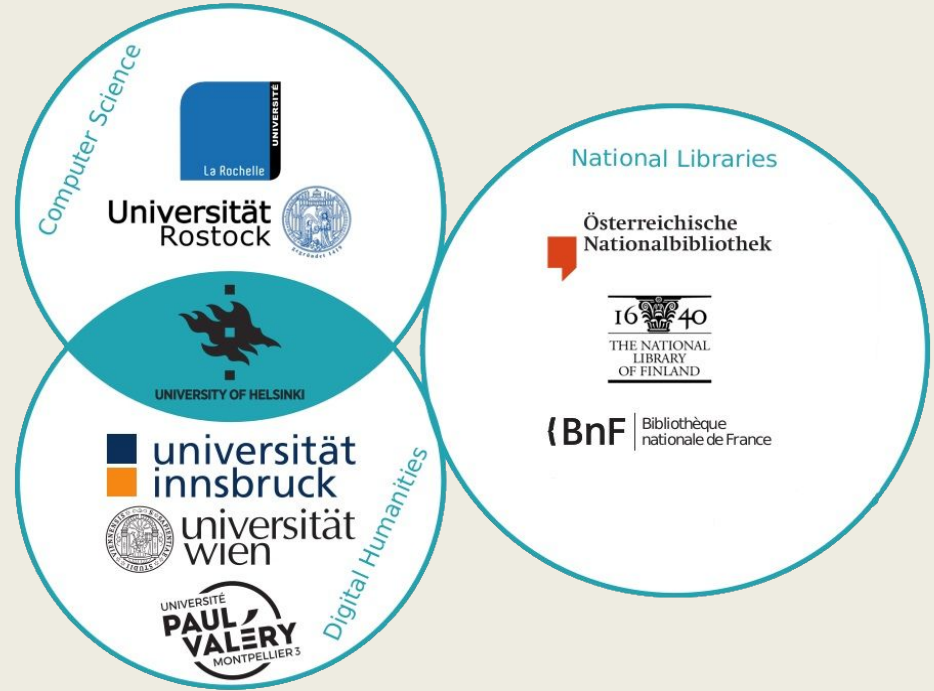
Consortium

Coordinator: University of La Rochelle (France)

- Prof. Antoine Doucet, Project Coordinator

Partners from 4 countries:

- France
- Austria
- Finland
- Germany.



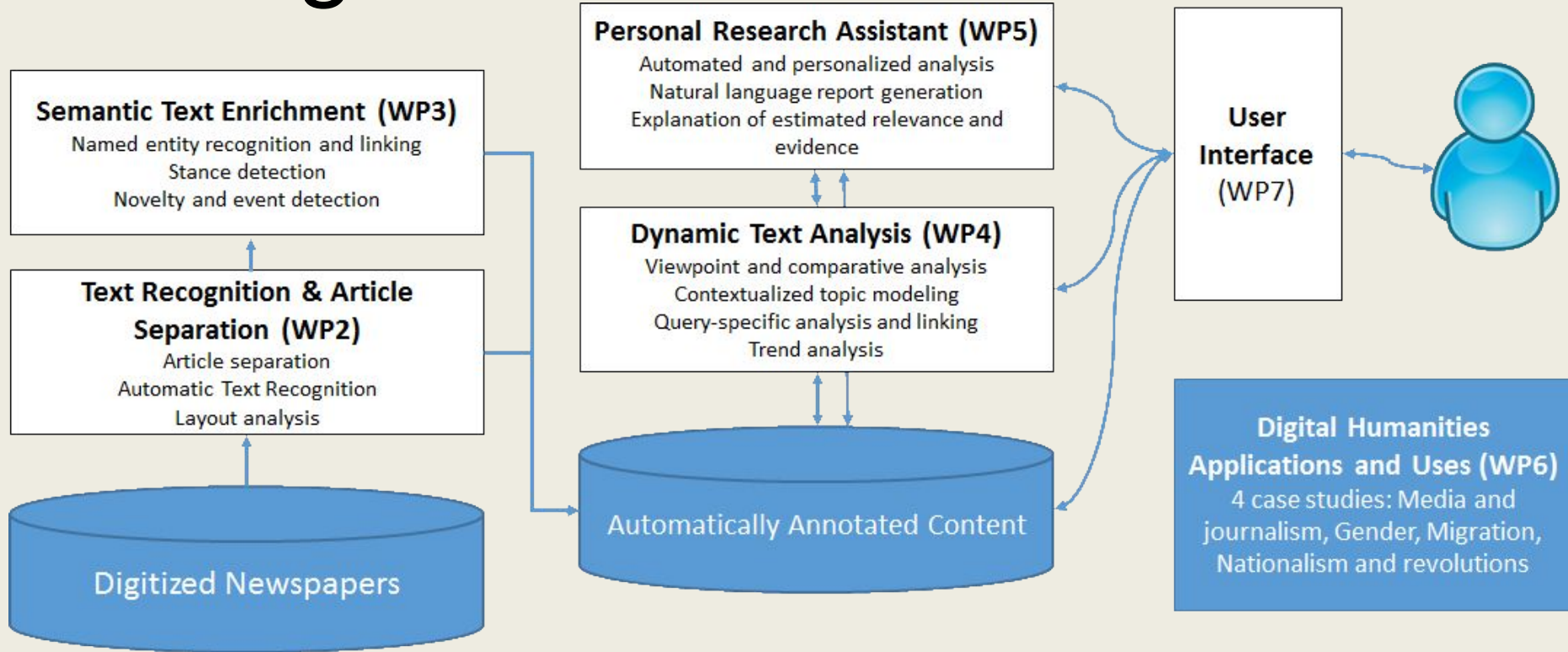
University of Helsinki

is represented by three different research groups:

- Computer Science (Hannu Toivonen, Mark Granroth-Wilding, Leo Leppänen, Jari Avikainen)
- Digital Humanities (Mikko Tolonen, Jani Marjanen, Simon Hengchen, Ruben Ros)
- National Library of Finland (Minna Kaukonen, Kimmo Kettunen, Juha Rautiainen)

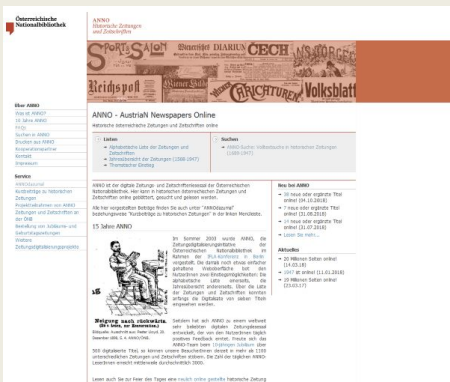


Integrated Tools and Methods



Collections and Datasets

The project will use existing large-scale digitized newspaper collections from three national libraries.



Österreichische Nationalbibliothek

ANNO
Austrian Newspapers Online

auswählte österreichische Zeitungen und Zeitungsblätter online

Suchen

48833 von digitalen Zeitungen und Zeitungsheften der Österreichischen Nationalbibliothek, von 1800 bis 1945. Österreichische Zeitungen und Zeitungsblätter online, umfasst eine große Vielfalt an historischen Zeitungen und Zeitungsheften. Suchen Sie nach einer "Anno"-Nummer, um die Originalausgabe zu finden. Suchen Sie nach einer "Anno"-Nummer, um die Originalausgabe zu finden.



DIGITAALISET AINEISTOT

Sanomalehdet, Aikakauslehdet, Pienvaijat, Muotaineistot

Emäntälehti, Mikkelin Sanomat, arabia, TEKNOLOGEN

DIGI-KANSALLISKIRJASTO.FI

14 181 626 sivua

Sanomalehdet
Digitoitu yhteensä 7 233 715 sivua.
Vapaassa käytössä 4 074 484 sivua.
[0000]19209
Rajattuina käytössä 3 159 231 sivua.
[0000]19209

Aikakauslehdet
Digitoitu yhteensä 6 818 568 sivua.
Vapaassa käytössä 3 379 086 sivua.
[0000]19209

Pienvaijat
Vapaassa käytössä 129 343 sivua.



BnF Gallica

LES ACTUALITÉS

4 966 035 documents en ligne

Motifs bigarrés

L'Origine du monde

Discours de la méthode, René Descartes

De Gallica à Wikisource



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Goal

NewsEye will change the way European digital heritage data is (re)searched, accessed, used and analysed.

Case:

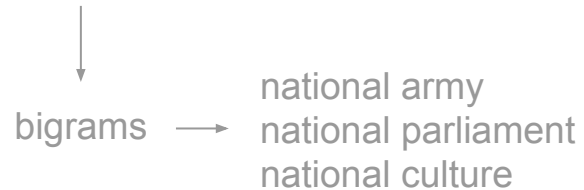
The Omnipresence of the Nation

Jani Marjanen, Simon Hengchen, Ruben Ros, Mikko Tolonen

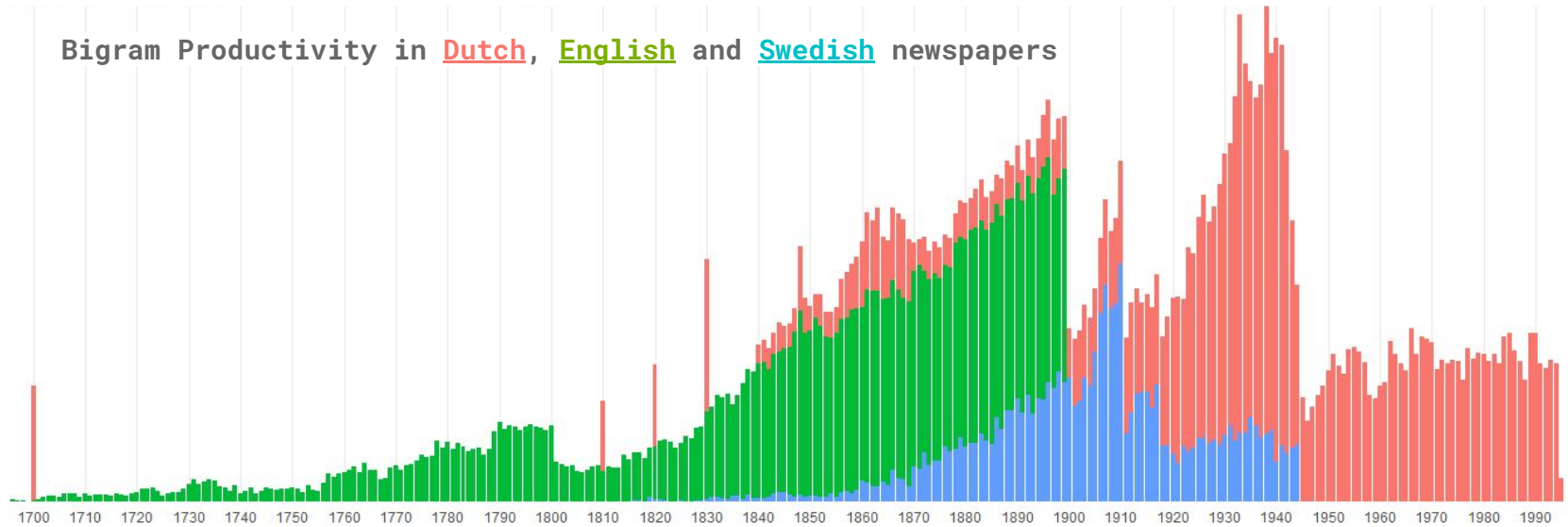


Goal:

study aspects of nation building through the proliferation of vocabulary with the root “nation”

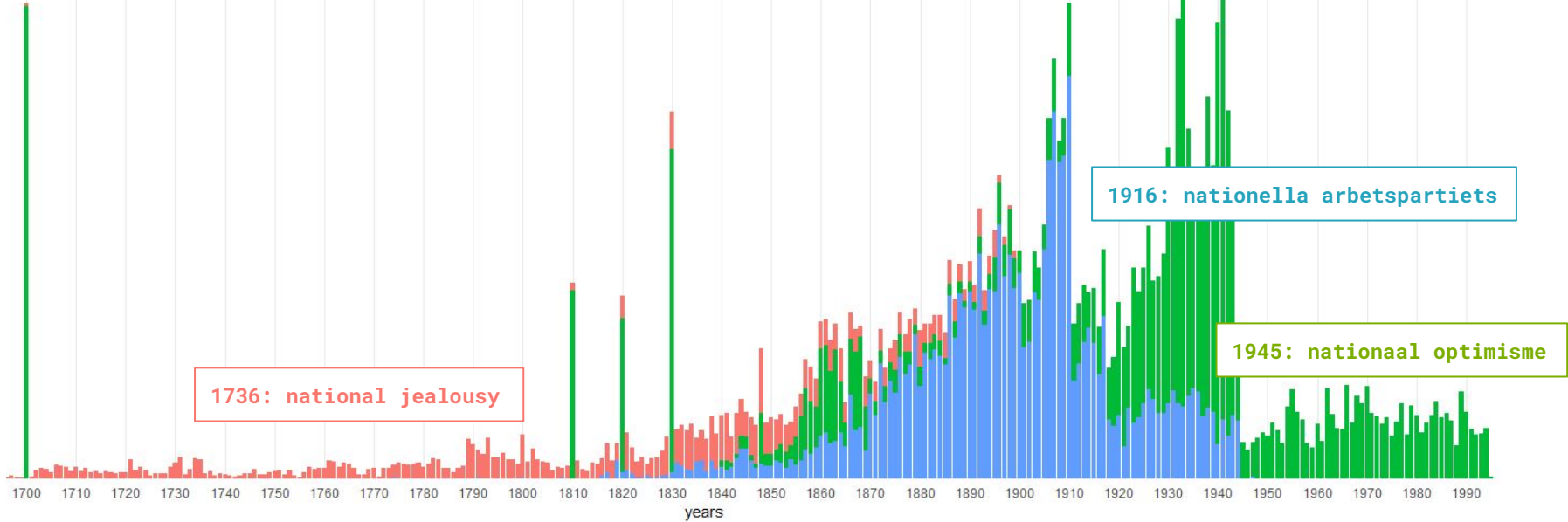


Expanding Vocabularies

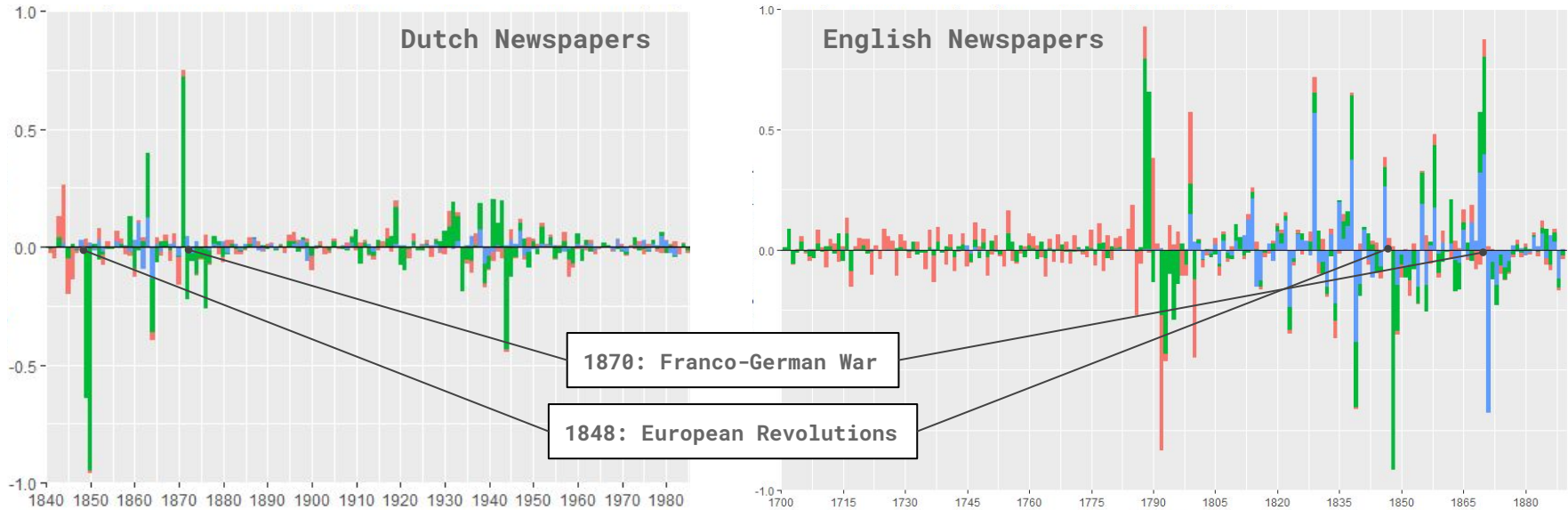


Changing Vocabularies

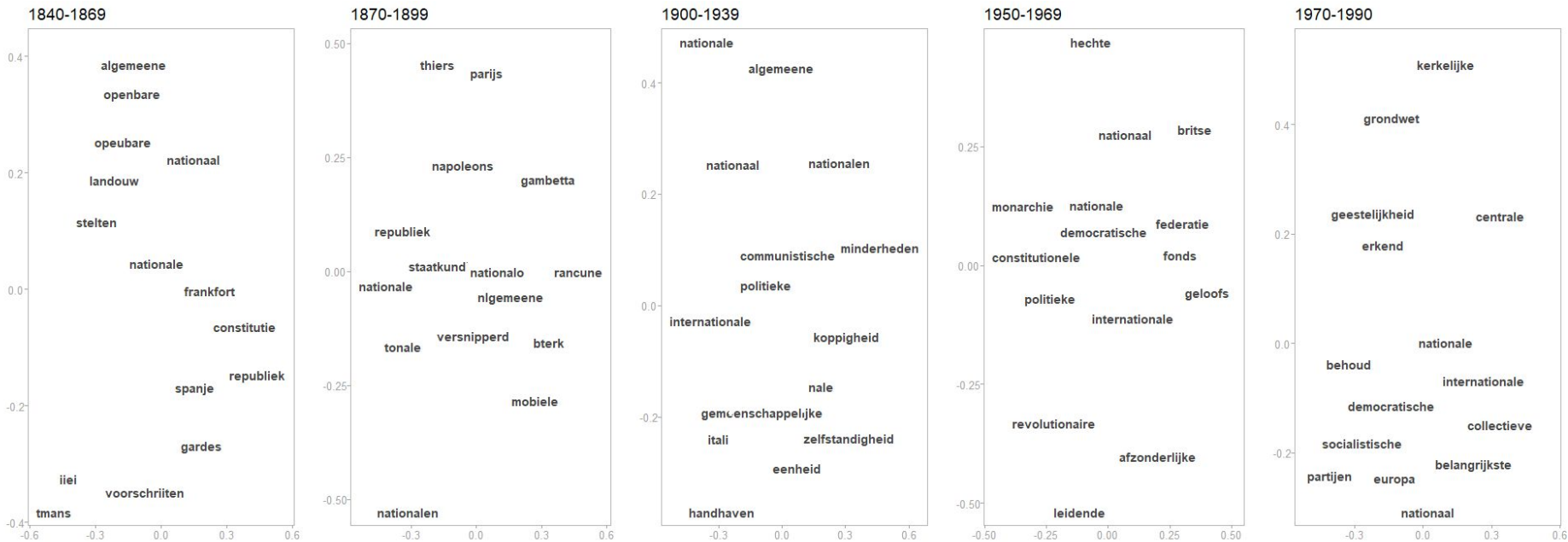
Bigram Creativity in Dutch, English and Swedish newspapers



Changing Clusters of Bigrams



Next Steps



broader changes in vocabulary (word embeddings, topic modelling)

Next Steps

international referentiality in vocabulary change

In this way of looking at the question, the committee thought it necessary to proclaim aloud their opinion, that there was a party which desired to display to France their Pretender and their colours – which were those of counter-revolution. The committee had every reason to believe that with this intention (he party alluded to had met in London for the purpose of opposing, at least for the future, a King to a King, a Government to a Government, and the principle of hereditary right to the principle of national sovereignty.

More About NewsEye

<https://www.newseye.eu/>

Twitter: @NewsEyeEU



Think Open blog:

<https://blogs.helsinki.fi/thinkopen/enthusiasm-about-the-new-horizons-automatic-data-science-adapted-to-european-history-and-its-everyday-documents-newspapers/>



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