

## Accepted Manuscript

An Information-Based Procedure for Measuring Semantic Change in Historical Data

Yair Neuman, Harvey Hames, Yochai Cohen

PII: S0263-2241(17)30231-2

DOI: <http://dx.doi.org/10.1016/j.measurement.2017.04.017>

Reference: MEASUR 4698

To appear in: *Measurement*

Received Date: 29 January 2017

Revised Date: 1 April 2017

Accepted Date: 11 April 2017



Please cite this article as: Y. Neuman, H. Hames, Y. Cohen, An Information-Based Procedure for Measuring Semantic Change in Historical Data, *Measurement* (2017), doi: <http://dx.doi.org/10.1016/j.measurement.2017.04.017>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

# An Information-Based Procedure for Measuring Semantic Change in Historical Data

Yair Neuman<sup>1\*</sup>, Harvey Hames<sup>2</sup> & Yochai Cohen<sup>3</sup>

1\* Corresponding author. Head, The Humphrey Institute, Address: Department of Education, Ben-Gurion University of the Negev, Israel. Rager St., Beer-Sheva, Israel. 84105. Tele.:972-8-6461844, yneuman@bgu.ac.il.

2. Department of General History, Ben-Gurion University of the Negev, Israel. Rager St., Beer-Sheva, Israel. 84105. hames@bgu.ac.il.

3. Gilasio Coding, Tel-Aviv, Israel. yohai@gilasio.com

## An Information-Based Procedure for Measuring Semantic Change in Historical Data

### 1. Introduction

For various academic and practical contexts, it may be important to study the way in which the meaning of certain target concepts has changed in historical data records, that is records spanning over a significant time period. For example, an investment bank may be interested in the way the meaning of an investment theme (e.g. Clean Energy or Robotics) has changed in its analysts' reports over the last fiscal year, and historians may be interested in studying the way in which the meaning of "Sin" has changed from the 18th century.

The problem is that while the concept of information has been well defined, the study of meaning within information sciences has gained relatively little attention (e.g. 1, 2, 3) and therefore it is not quite clear how to measure semantic change using

متن کامل مقاله

دریافت فوری ←

**ISI**Articles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات