Nobel Ontology

Group A3D

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Overview

1. Domain of Interest

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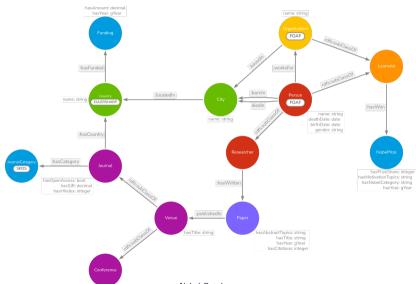
4. Analytics

Domain of Interest



We have chosen the domain of scientific research. Specifically, we aim to analyze potential correlations among Nobel Prize winners, their publications, and the research funding invested by various countries. This domain was selected because it allows us to reveal potential historical and geographical patterns in scientific research.

Nobel Ontology



Problems

- Errors in Nobel-Laureate dataset
- Used only a portion of the papers dataset
- Researchers and Nobel laureates matching

Errors in Nobel-Laureate dataset

Table: Example of dataset error

| Year | Category | Prize Share | Full Name |
|------|----------|-------------|-----------------------|
| 1908 | Medicine | 1/2 | Ilya Ilyich Mechnikov |
| 1908 | Medicine | 1/2 | Paul Ehrlich |
| 1908 | Medicine | 1/2 | Paul Ehrlich |

Blocks of Highlighted Text

In this slide, some important text will be highlighted because it's important. Please, don't abuse it.

Block

Sample text

Alertblock

Sample text in red box

Examples

Sample text in green box. The title of the block is "Examples".

Multiple Columns

Heading

- 1. Statement
- 2. Explanation
- 3. Example

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer lectus nisl, ultricies in feugiat rutrum, porttitor sit amet augue. Aliquam ut tortor mauris. Sed volutpat ante purus, quis accumsan dolor.

Relationship between Nobel Prize winning ideas and published studies

Table: Number of papers per Nobel topic in 2004

| Nobel topic | Nobel Prize | Number of papers |
|--------------|-----------------|------------------|
| protein | Chemistry 2004 | 28 |
| development | Peace 2004 | 13 |
| flow | Literature 2004 | 8 |
| interaction | Physics 2004 | 4 |
| discovery | Chemistry 2004 | 3 |
| discovery | Physics 2004 | 3 |
| degradation | Chemistry 2004 | 3 |
| asymptotic | Physics 2004 | 2 |
| forces | Economics 2004 | 1 |
| cycles | Economics 2004 | 1 |
| olfactory | Medicine 2004 | 1 |
| organization | Medicine 2004 | 1 |

The topic "protein" appeared in 28 papers. The high number of papers mentioning this Nobel topic suggests that it was widely discussed or relevant in 2004.

Most active research areas in a year

Table: Number of papers for each journal subcategory in 2004

| Journal Subcategory | Number of papers |
|---|------------------|
| Biochemistry Genetics Molecular Biology | 418 |
| Social Sciences | 344 |
| Decision Sciences | 125 |
| Arts Humanities | 74 |
| Business Management Accounting | 68 |
| Physics Astronomy | 65 |
| Neuroscience | 55 |
| Health Professions | 34 |
| Psychology | 27 |
| Earth Planetary Sciences | 22 |
| Economics Econometrics Finance | 14 |
| Materials Science | 12 |
| Environmental Science | 12 |
| Agricultural Biological Sciences | 10 |
| Energy | 2 |
| Pharmacology Toxicology Pharmaceutics | 2 |

Molecular biology was the most active research area in 2004.

Query 3

Uncomment the code on this slide to include your own image from the same directory as the template .TeX file.

Questions?