Heron

The map of science
**Team**

**CEO**
Mihaly Kollo
Neuroscientist
Machine learning

**CSO**
Romeo Racz
Chemical engineer
Neuroscientist

**Tech lead**
Joost de Folter
Physicist
Data scientist
Contradicting studies are part of the life-cycle of scientific knowledge.

“Children should avoid peanuts…”
*Ewan, 1996*

“Consumption of allergenics helps tolerance…”
*Du Toit, 2008*
Identifying differences in study design

High dose dialysis is better

Lowrie, 1998

$Kt/V = 0.6 - 1.6$

High dose dialysis is NOT better

Eknoyan, 2002

$Kt/V = 1.2 - 1.5$

Day-to-day task for:

- Academic researchers
- Industrial researchers
- Reviewers
Problem

≈500 M pages of unstructured text

- researchers only read 0.2% of new daily publications
- no easy way to read into other disciplines
- no easy way to share and collaborate
- huge opportunity cost
  (700M $/year on peer review only)
What is wrong with science?

The paper as Bayesian inference

\[ P(\text{Hypothesis} \mid \text{Observation}) = \frac{P(\text{Observation} \mid \text{Hypothesis}) \times P(\text{Hypothesis})}{P(\text{Observation})} \]
What is wrong with science?

Conclusions

\[ P(????) = \frac{P(Observation|Hypothesis) \times P(Hypothesis)}{P(Observation|Excitingness \text{ of hypothesis}) \cdot \text{Coolness of techniques} \cdot \text{Buzzwords}} \]

Introduction

Results + Methods
Our solution
An online, graphical map of science (papers, studies, patents)
Technology
Accelerated pipeline for automated text processing
Heron
The map of science

Discover relevant experiments
Find the most relevant studies to your field without reading text

Compare studies
Find the most relevant differences in an instant

Boost your scientific output
Read what is useful to you and find the information you really need

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