### Disruptor disrupted



How we are all (becoming) a technology business

Maarten Cleeren
13 December 2017

# Hello!

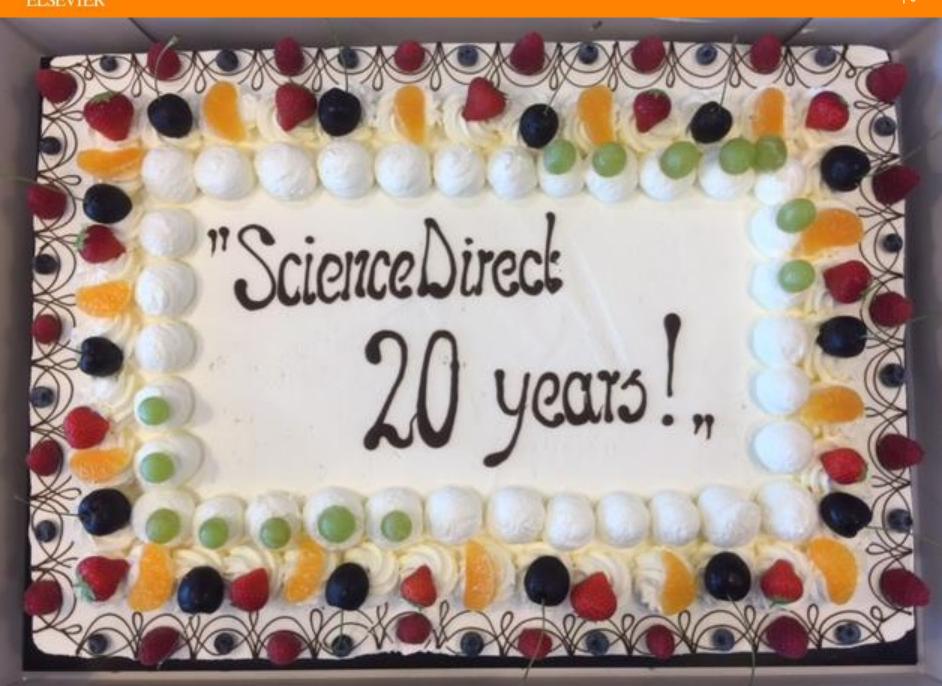
### **Maarten Cleeren**

Director of Product Management, Enriched Content Research Products at Elsevier

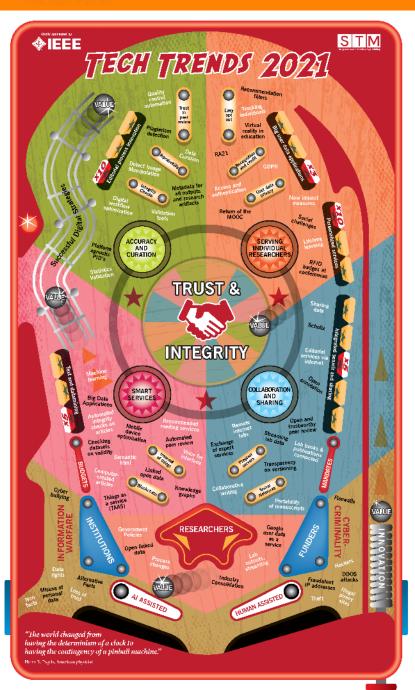


"Although basically built around the content of the printed journals, ScienceDirect is likely to fuel the controversy about the acceptance of the Internet as a venue for publication of original scientific works. This is a highly sensitive issue going directly to the core of the scientific validation process."

Bruno Giussani, NY Times



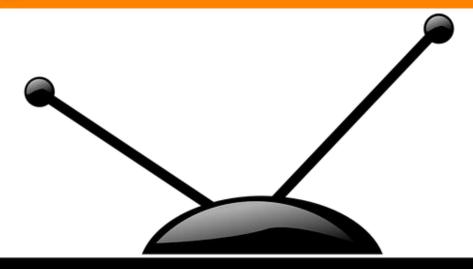
ELSEVIER TITLE OF PRESENTATION



## Affect vs Transform

# Information analytics business specializing in Science and Medicine

- How we are **organized** and who we **hire**
- How we **produce** data and manage information
- How we maintain our existing business
- 4 How we create and build new services and products

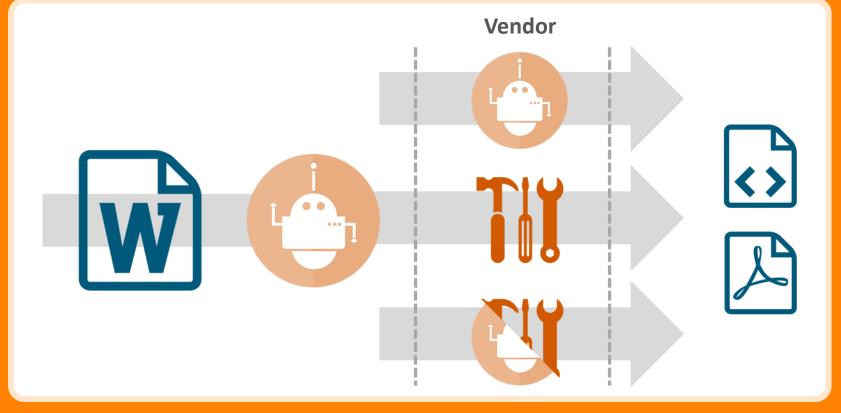






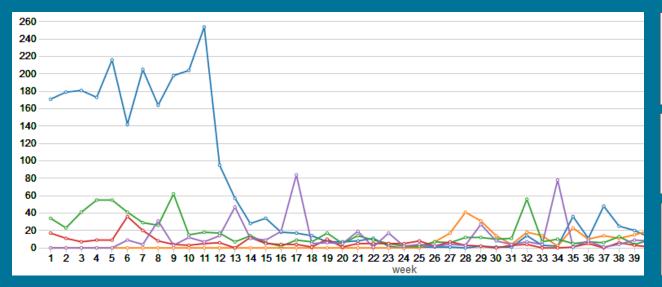






Data analytics on new incoming records we can now flag suspicious data and identify and implement preventive actions

### Scopus



### wierczyński, Sławomir

Polish Naval Academy, , Poland

Author ID: 56925454000

### Gołe{ogonek}dowski, B.

Aarhus Universitet, Department of Geosciences, Aarhus, Denmark

Author ID: 54990855300

#### Ehsani1, Mohammad R.

Isfahan University of Technology, Department of Chemical Engineering, Isfahan, Iran

Author ID: 57046079200

## How we create and build new services and products



### ScienceDirect

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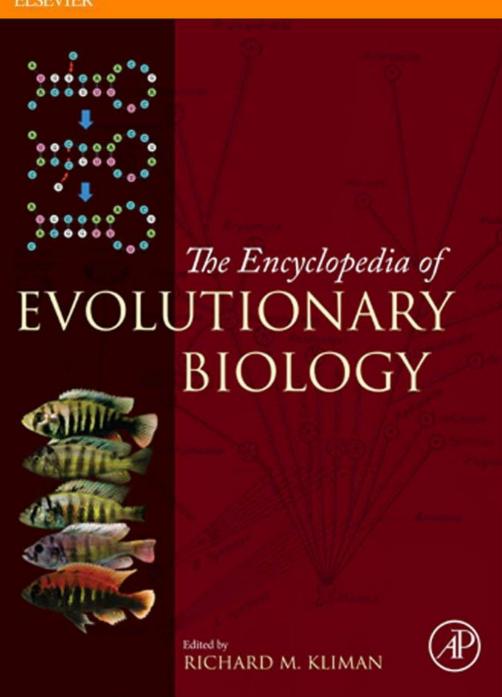


### **User Study:**

What are tasks associated with reading content on-screen?

### Observation:

When users come across an unfamiliar term or concept in an article, they stop reading, open up new browser tab and search for definitions and background information



### Reference Content

### ScienceDirect

### A delta fiber

The Ao fibers are a group of faster conducting PANs, slightly larger than the small-caliber C fibers, and have a thin covering of myelin to speed conduction velocity.

From: Nerves and Nerve Injuries, 2015

Related terms:

Group C nerve fiber, Myelin, Nociceptor, Nociception, Axon, Afferent nerve fiber, Type II sensory fiber, TRPV1, Calcitonin generelated peptide, Analgesic

#### Learn more about A delta fibei

### Pathophysiology of Pain in the Peripheral Nervous System

Rachel Milner<sup>1</sup>\*, Cahir Doherty<sup>2</sup>, in Nerves and Nerve Injuries, 2015

#### Aδ Fibers

The Aō fibers are a group of faster conducting PANs, slightly larger than the small-caliber C fibers, and have a thin covering of myelin to speed conduction velocity. Consequently, the subjective nature of pain described when Aō fibers are stimulated is often described as immediate and well-localized pain. Aō fibers typically respond to a discrete type of stimulus, such as mechanical stimuli or damaging hot or cold temperatures. They are less likely to be polymodal receptors than are C fibers (Gold & Gebhart, 2010; Julius & Basbaum, 2001; Schmidt et al., 1995; Woolf & Ma, 2007).

> Read full chapter

Adenovirus Replica

Diana Guimet, Patrick Hearing, Therapy (Second Edition), 2016

4

#### Virus Infection

The Ad fiber protein binds to th

- L. Clear definition
- . Related terms
- 3. Links to relevant Book content

which is the primary receptor for both Ad5 and coxsackie B virus. Attachment to the receptor occurs in concert with the binding of the RGD peptide on the penton base to cellular integrins ( $\alpha_v \beta_3$  and  $\alpha_v \beta_5$ ). Ad may enter cells using heparin sulfate proteoglycans as an alternative receptor, likely through interaction with blood factors such as factor IX, factor X, or complement component C4-binding protein. CD46 also is used as a receptor for subgroup B human Ad. Ad is internalized by receptor-mediated endocytosis via clathrin-coated pits. Endosome acidification alters virus topology and the capsid components partly disassemble. The partially degraded virion is transported through the cytoplasm to the nucleus along the

# 100,000

### **Neural Networks**

- 1. Receive an input
- 2. Run a series of hidden calculations
- 3. Output = answer to your question

### Machine Learning

# Training data is *key*... Backpropagation is *crucial* ...

# Publishers have a wealth of training data

