Desmistificando a Inteligência Artificial Desafios, realidade e perspectivas

Onde podemos chegar?







CEZAR TAURION

JAN 2018

DIGITAL AROUND THE WORLD IN 2018

KEY STATISTICAL INDICATORS FOR THE WORLD'S INTERNET, MOBILE, AND SOCIAL MEDIA USERS

TOTAL **POPULATION**

INTERNET **USERS**



ACTIVE SOCIAL MEDIA USERS



MOBILE USERS

UNIQUE



ACTIVE MOBILE SOCIAL USERS



7.593 **BILLION**

4.021 **BILLION**

BILLION

BILLION

BILLION

URBANISATION:

PENETRATION:

53%

PENETRATION:

42%

PENETRATION:

68%

PENETRATION:

39%

2017 This Is What Happens In An Internet Minute



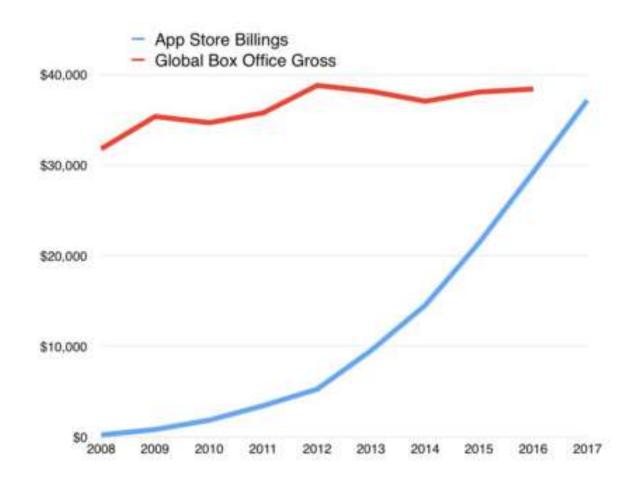








Apple's App Store Revenues Could Top Global Box Office in 2018









YOUR IDEA
OUR CHALLENGE











'AI IS THE NEW ELECTRICITY'



"Just as electricity transformed almost everything I 00 years ago, today I actually have a hard time thinking of an industry that I don't think AI will transform in the next several years."

Andrew Ng

Former chief scientist at Baidu, Co-founder at Coursera





Amazon's robot army grows by 50 percent

Originally published December 28, 2016 at 12:55 pm | Updated December 29, 2016 at 12:38 pm



An Amazon worker removes packages from a container on top of a Kiva robot. (Ellen M. Banner/The Seattle Times)

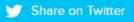
The world's largest e-commerce retailer said it employed 45,000 robots in some 20 fulfillment centers. That's a cool 50 percent increase from last year's holiday season, when the company had some 30,000 robots working alongside 230,000 humans.





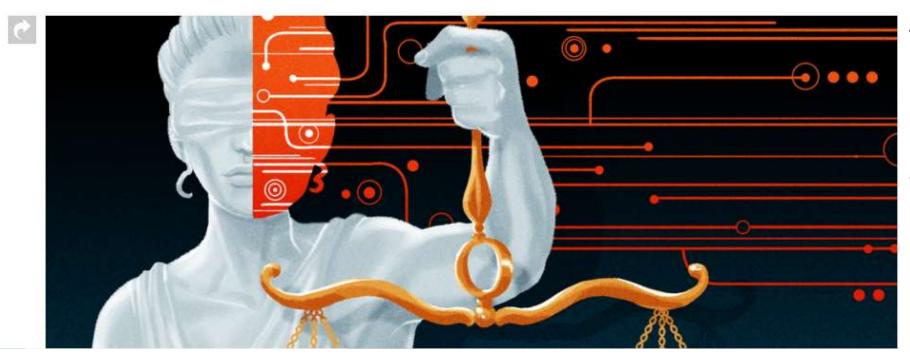
An AI just beat top lawyers at their own game











Competitors were given four hours to review five non-disclosure agreements (NDAs) and identify 30 legal issues, including arbitration, confidentiality of relationship, and indemnification.

The human lawyers achieved, on average, an 85 percent accuracy rate, while the AI achieved 95 percent accuracy. The AI also completed the task in 26 seconds, while the human lawyers took 92 minutes on average.

It will no longer be a question of whether a physician should be using AI, but whether it is ethical if a doctor doesn't



Al learns to write its own code by stealing from other programs

DeepCoder uses a technique called program synthesis: creating new programs by piecing together lines of code taken from existing software – just like a programmer might...





IA vai afetar todos setores de negócios!

FIGURE 1: Expectations for Al's effect on businesses' offerings in five years are consistently high across industries.

Expectations for AI adoption across industries: impact on offerings

To what extent will the adoption of AI affect your organization's offerings today and five years from today?

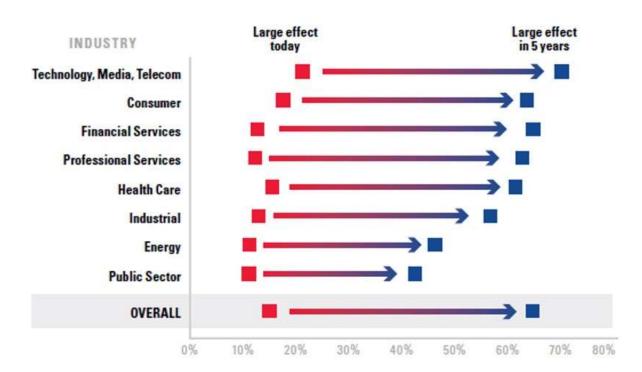
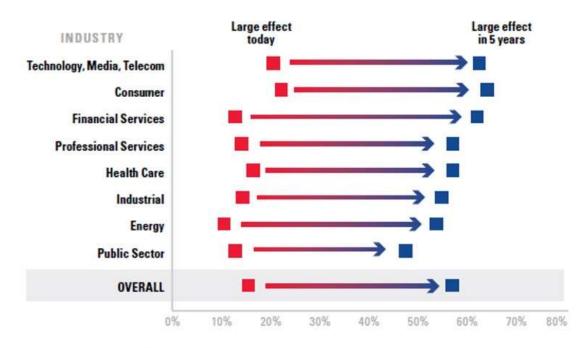


FIGURE 2: As with offerings, organizations expect AI to have a great impact on processes within the next five years.

Expectations for Al adoption across industries: impact on processes

To what extent will the adoption of Al affect your organization's processes today and five years from today?

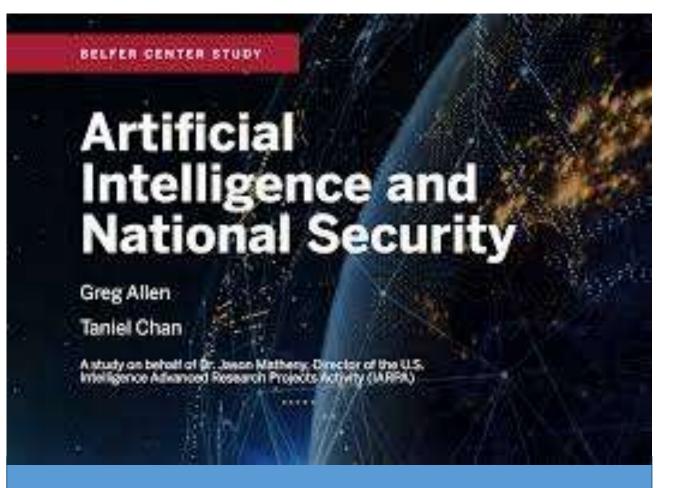


Percentage of respondents who expect a large ("a lot" or "great") effect on a five-point scale

Percentage of respondents who expect a large ("a lot" or "great") effect on a five-point scale







Future progress in AI has the potential to be a transformative national security technology, on a par with nuclear weapons, aircraft, computers, and biotech.

Advances in AI will affect national security by driving change in three areas: military superiority, information superiority, and economic superiority.



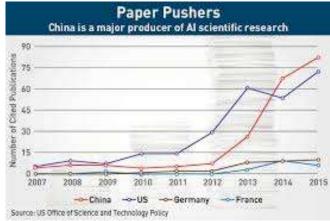
Artificial Intelligence, Automation, and the Economy

Executive Office of the President

December 2016

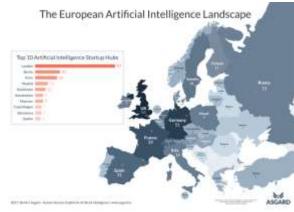






In July, China's State Council released a detailed strategy designed to make the country "the front-runner and global innovation center in AI" by 2030. It includes pledges to invest in R&D that will "through AI elevate national defense strength and assure and protect national security."





"Artificial intelligence is the future, not only for Russia but for all humankind. Whoever becomes the leader in this sphere will become the ruler of the world."



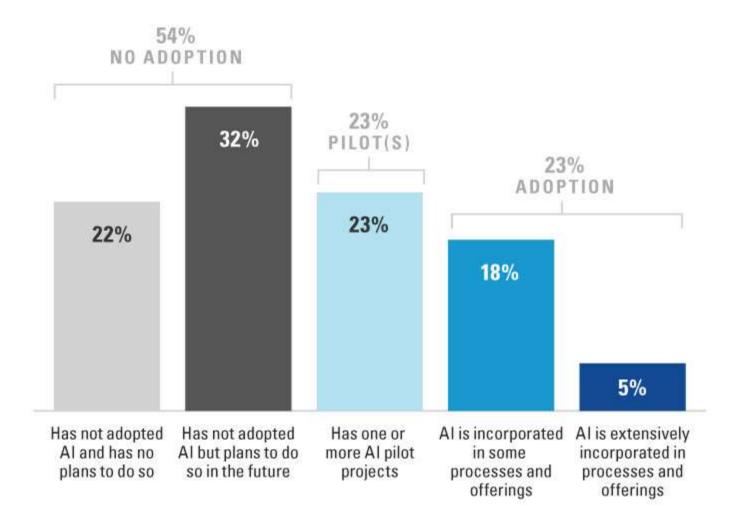


• "If you don't have an Al strategy, you are going to die in the world that's coming."

Devin Wenig CEO, eBay

Adoption level of Al

What is the level of AI adoption in your organization?

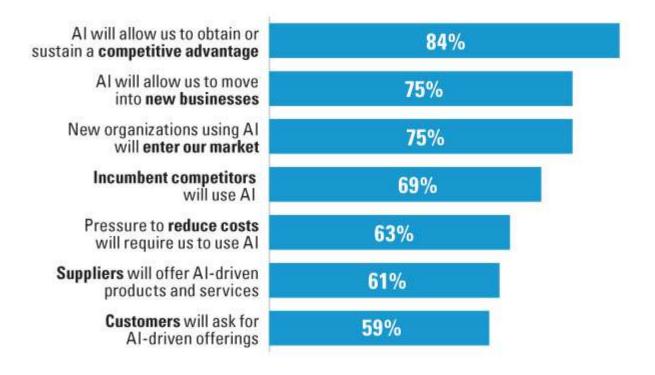






Reasons for adopting Al

Why is your organization interested in AI?



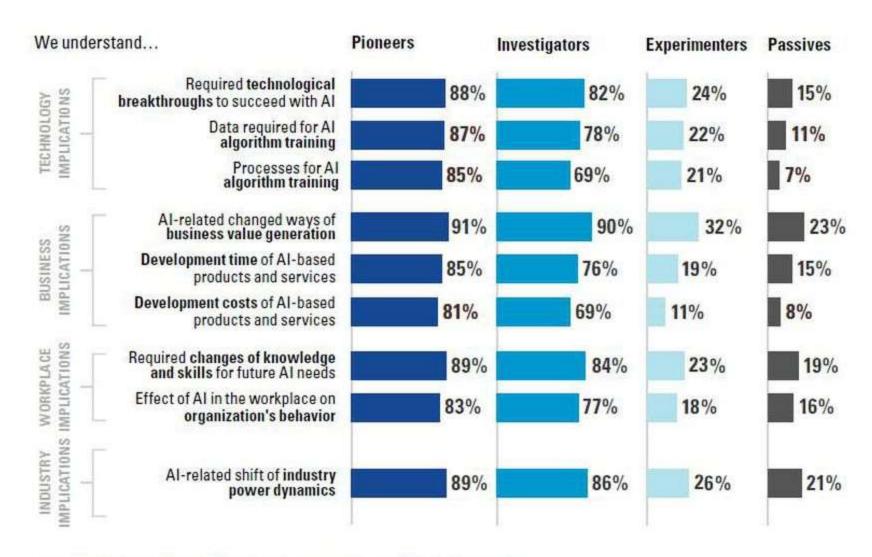
Percentage of respondents who somewhat or strongly agree with each statement





Levels of Al understanding

To what extent do you agree with the following statements about your organization?

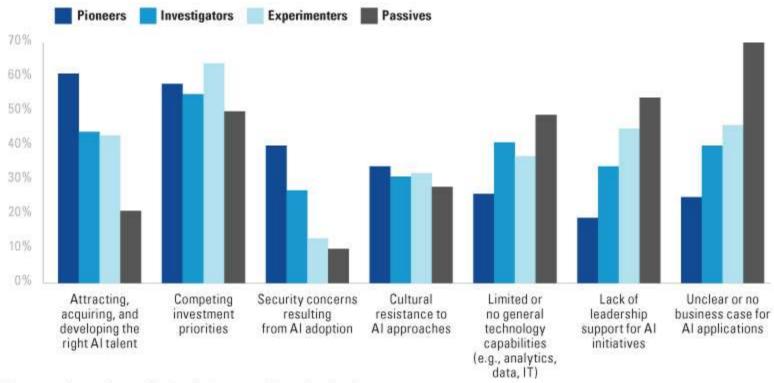






Barriers to Al adoption

What are the top three barriers to Al adoption in your organization?



Percentage of respondents ranking the selection as one of the top three barriers





Link between AI and general organizational capabilities

To what extent do you agree with the following statements about your organization?

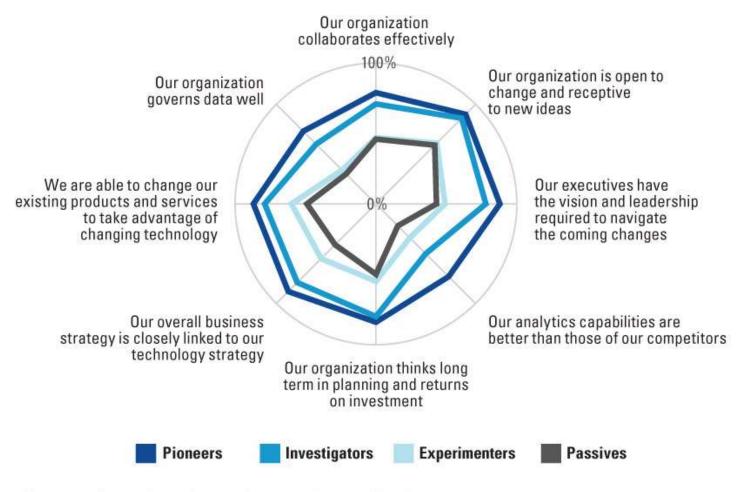
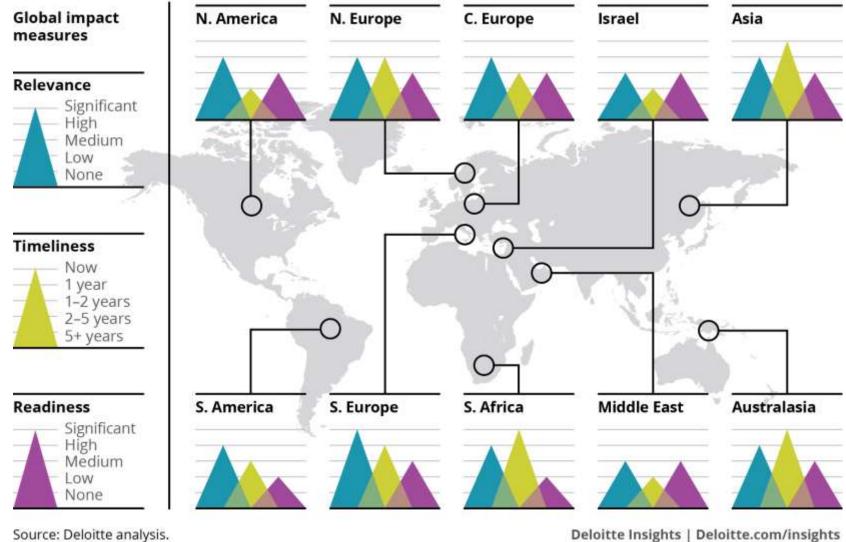






Figure 2. Global impact





Deloitte Insights | Deloitte.com/insights



"Despite these astonishing advances, we are a long way from machines that are as intelligent as humans—or even rats. So far, we've seen only 5% of what Al can do."

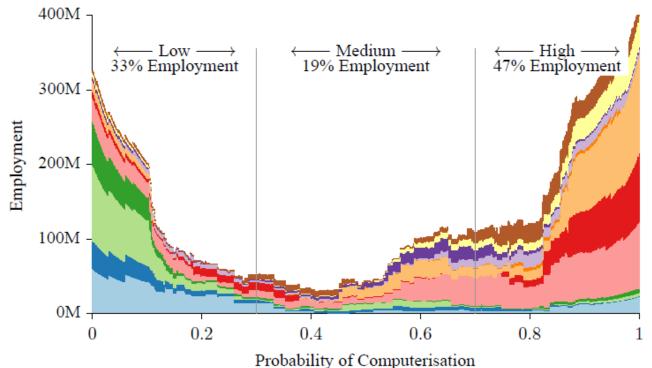


Director of research, Facebook



Empregabilidade?





Bring on the personal trainers

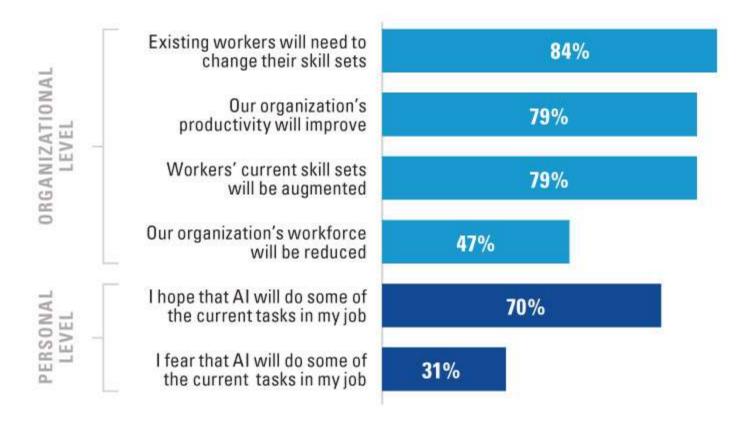
Probability that computerisation will lead to job losses within the next two decades, 2013 (1=certain)

Job	Probability
Recreational therapists	0.003
Dentists	0.004
Athletic trainers	0.007
Clergy	0.008
Chemical engineers	0.02
Editors	0.06
Firefighters	0.17
Actors	0.37
Health technologists	0.40
Economists	0.43
Commercial pilots	0.55
Machinists	0.65
Word processors and typists	0.81
Real estate sales agents	0.86
Technical writers	0.89
Retail salespersons	0.92
Accountants and auditors	0.94
Telemarketers	0.99

Source: "The Future of Employment: How Susceptible are Jobs to Computerisation?" by C.Frey and M.Osborne (2013)

Al's effect on the workforce

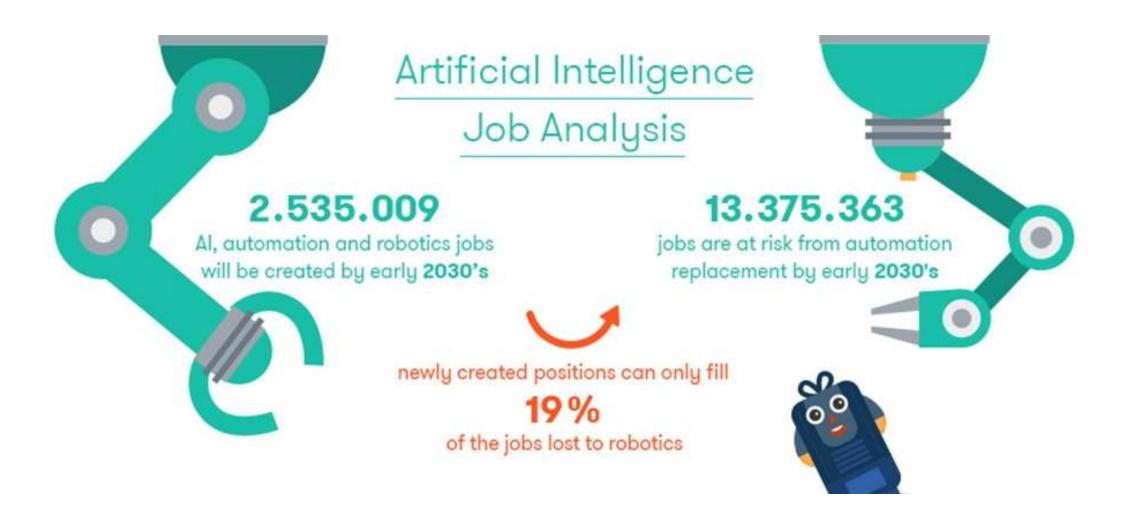
How do you expect AI will affect the workforce in the next five years?



Percentage of respondents who somewhat or strongly agree with each statement











JPMorgan Software Does in Seconds What Took Lawyers 360,000 Hours

by Hugh Son

February 27, 2017, 6:31 PM CST Updated on February 28, 2017, 6:24 AM CST







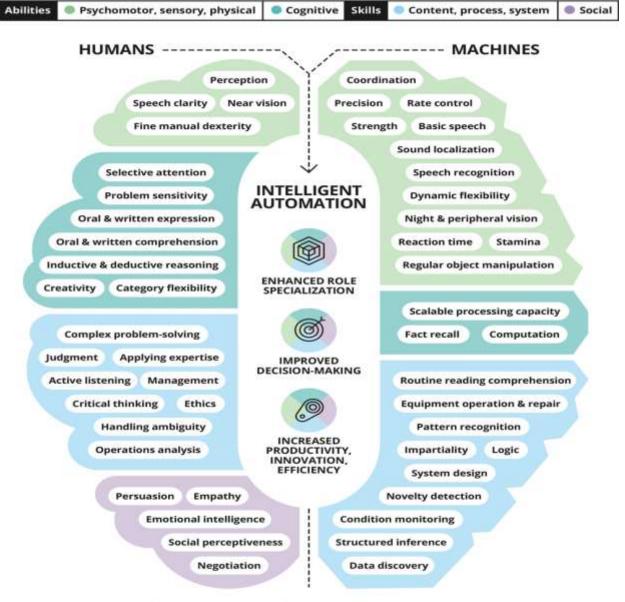






Figure 1. A new mind-set for the no-collar workforce

Humans and machines can develop a symbiotic relationship, each with specialized skills and abilities, in a unified workforce that delivers multifaceted benefits to the business.











Top 10 skills



in 2020

- COMMITTED TO IMPROVING THE STATE OF THE WORLD
- Complex Problem Solving
- Critical Thinking
- Creativity
- 4. People Management
- Coordinating with Others
- Emotional Intelligence
- 7. Judgment and Decision Making
- Service Orientation
- Negotiation
- Cognitive Flexibility







Article

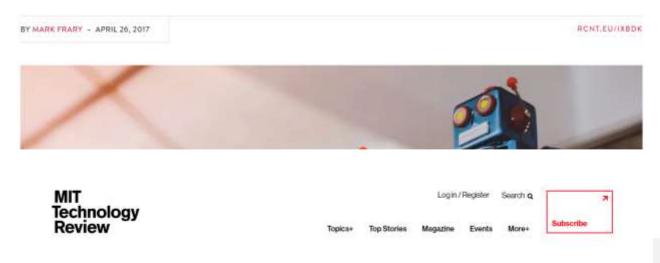
Facial recognition software is biased towards white men, researcher finds

< Research

via The Verge Feb. 11, 2018 New research out of MIT's Media Lab is underscoring what other experts have reported or at least suspected before: facial recognition technology is subject to biases based on the data sets provided and the conditions in which algorithms are created

Should a computer be recognised as an inventor?

The question of whether a computer should be recognised as the creator of a patentable invention is vexing intellectual property lawyers



Intelligent Machines

Robot Art Raises Questions about Human Creativity







COMO COMPETIR NESSA NOVA CIVILIZAÇÃO?



OBRIGADO!









in https://www.linkedin.com/in/ctaurion/