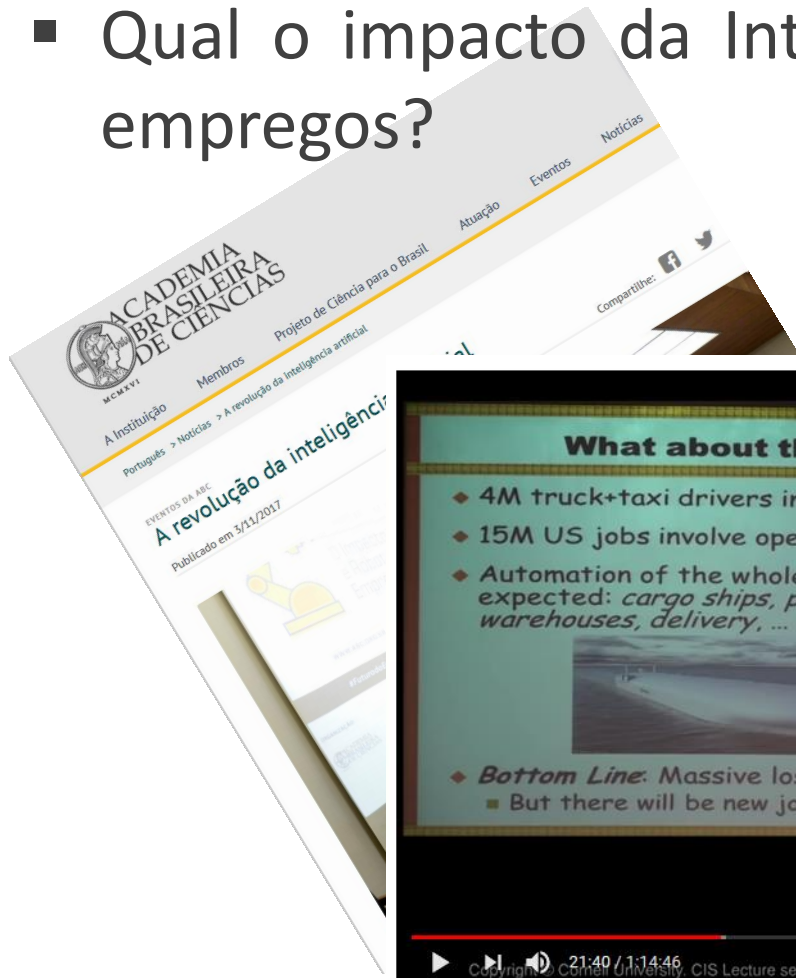


# Painel: Experiências, Desafios e Perspectivas de Inteligência Artificial

**Daniel Sadoc Menasche (UFRJ)**  
**Eduardo Ogasawara (CEFET/RJ)**  
**Rener Castro (Itau-Unibanco)**

# Perspectivas

- Qual o impacto da Inteligência Artificial no futuro dos empregos?



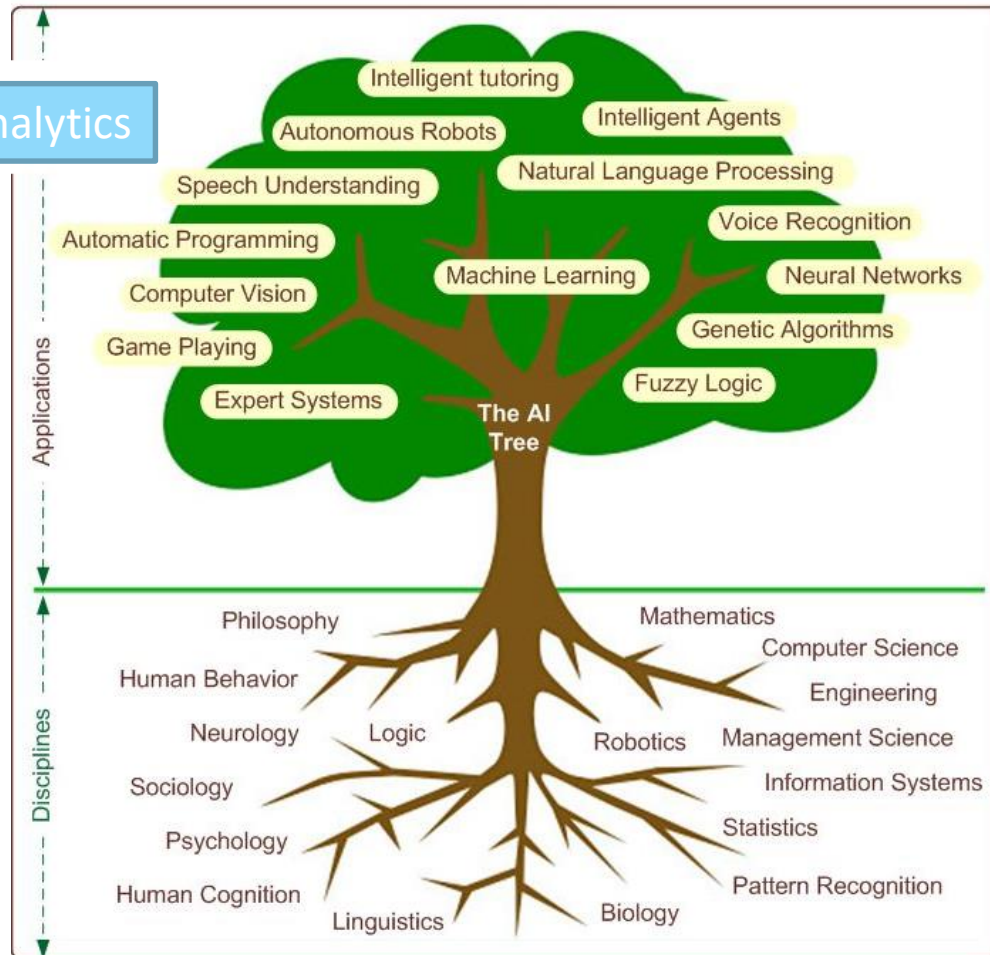
Moshe Vardi, "Humans, Machines, and Work: The Future is Now:

<https://www.youtube.com/watch?v=5ThiClGEBes>

# Perspectivas

- Qual a formação necessária para se trabalhar na área de aprendizado por máquina?

Business Intelligence and Analytics



# Perspectivas

- Em quais áreas a ética e a sociedade serão mais instigadas por conta dos avanços da IA?
- Como levar em conta o papel da justiça e equidade ao se realizar alocação ótima de recursos via aprendizado por máquina?

COMMUNICATIONS OF THE ACM

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VIEWPOINT

## Teaching Artificial Intelligence and Humanity

By Jennifer Keating, Illah Nourbakhsh

Communications of the ACM, Vol. 61 No. 2, Pages 29-32

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### INSIDE RISKS

## The Real Risks of Artificial Intelligence

By David Lorge Parnas

Communications of the ACM, Vol. 60 No. 10, Pages 27-31

10.1145/3132724

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REVIEW ARTICLES

## How Can We Trust a Robot?

By Benjamin Kuipers

Communications of the ACM, Vol. 61 No. 3, Pages 87

10.1145/3173087

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research highlights

## Technical Perspective Designing Algorithms and the Fairness Criteria They Should Satisfy

By Vincent Conitzer

ALGORITHMS ARE INCREASINGLY used to determine allocations of scarce, high-value resources. For example, spectrum auctions, which are used by governments to allocate radio spectrum, require algorithms to determine which combinations of bids can and should be accepted. Kidney exchanges allow patients that require a kidney transplant and have a willing but medically incompatible donor to trade their donor, and some of these exchanges now use algorithms to determine who matches with whom. These are very different allocation domains—for one

**If there is one objective that is often both essential and difficult to make precise, it is that of fairness.**



The vast increase in speed, memory capacity, and communications ability allows today's computers to do things that were unthinkable when I started programming six decades ago. Then, computers were primarily used for calculations; today, they process recordings. Then, it was an account that played chess badly but correct power to compete with the best human players.

<https://fatconference.org/>

# Desafios

- O que fazer com a falta de pessoas capacitadas em Inteligência Artificial?

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## Tech Giants Are Paying Huge Salaries for Scarce A.I. Talent

Nearly all big tech companies have an artificial intelligence project, and they are willing to pay experts millions of dollars to help get it done.

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By CADE METZ OCT. 22, 2017

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# Desafios

- Qual o valor de uma solução via inteligência artificial que funcione quase sempre mas que ninguém entenda o porquê?

**Full Citation:** Nguyen A, Yosinski J, Clune J. Multifaceted Feature Visualization: Uncovering the different types of features learned by each neuron in deep neural networks. Visualization for Deep Learning workshop. International Conference on Machine Learning. (pdf)

**Best Paper Award** and **Best Student Paper Award** at the Visualization for Deep Learning workshop at ICML 2016.

#### Download

- The code to conduct the experiments in this paper are available [here](#).



**Figure 1:** Visualizing the different facets of a neuron that detects bell peppers. Diverse facets include a single, red bell pepper on a white background (1), multiple red peppers (5), yellow peppers (8), and green peppers on the plant (4), a cutting board (6), or against a dark background (10). Center: training set Images from the bell pepper class are projected into two dimensions by t-SNE and clustered by k-means. Sides: synthetic images generated by multifaceted feature visualization for the “bell pepper” class neuron for each of the 10 numbered facets. Best viewed electronically, in color, with zoom.

# Experiência

- Como convencer um investimento em Inteligência Artificial?



The image is a screenshot of a web article from TechWorld. At the top, there is a dark blue header with the TechWorld logo (three vertical bars of increasing height) and the text 'techworld FROM IDG'. To the right of the logo is a 'Follow:' button with a Twitter icon. Below the header is a navigation bar with several breadcrumb links: 'Home > Galleries > Data Galleries > Tech giants investing in artificial intelligence'. The main title of the article is 'Tech giants investing in artificial intelligence' in a large, bold, black font. Below the title is the author's name 'By Christina Mercer' and the date 'Feb 08, 2018'. There are social media share icons for Twitter, Facebook, LinkedIn, and Google+. The article text begins with 'It's hard to pinpoint the exact path that AI will take, but with companies such as Google, Facebook and Microsoft making huge strides and Stephen Hawking and Elon Musk calling for AI to be regulated and monitored, it is definitely a hotly debated topic.' Below the text is a 'See also:' section with a link to 'Stuart Russell wrote the textbook on AI - now he wants to save us from catastrophe'. At the bottom, there is a 'Read next:' section with a link to 'The hottest machine learning startups in the UK'.

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## Tech giants investing in artificial intelligence

By  Christina Mercer | Feb 08, 2018

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It's hard to pinpoint the exact path that AI will take, but with companies such as Google, Facebook and Microsoft making huge strides and [Stephen Hawking and Elon Musk calling for AI to be regulated and monitored](#), it is definitely a hotly debated topic.

**See also:** [Stuart Russell wrote the textbook on AI - now he wants to save us from catastrophe](#)

Most businesses are keen to get involved and implement AI tools and frameworks in some way, but which companies are actually creating usable and impressive products? Here, we look at 10 tech giants that are investing in artificial intelligence, with great results.

**Read next:** [The hottest machine learning startups in the UK](#)