

Artificial inteligence and VR in on-line learning

Donald Clark















WATCH: The whole match in less than a minute

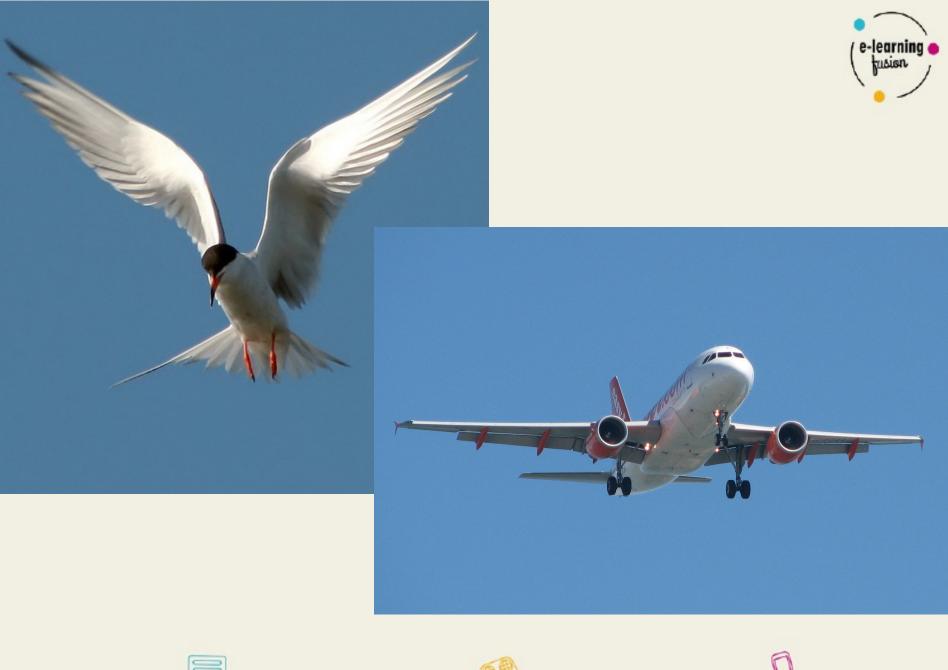










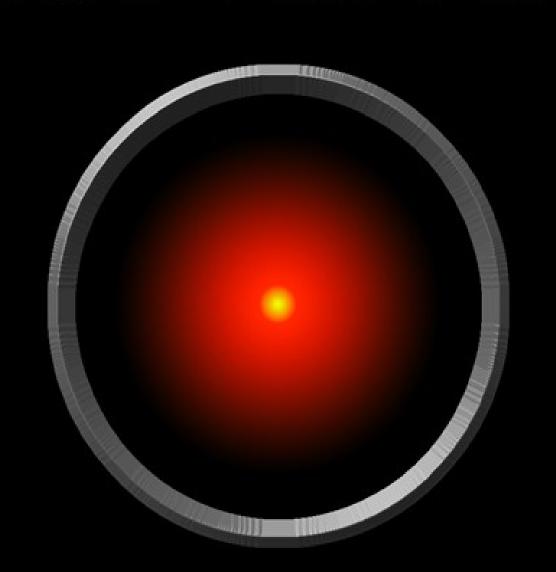


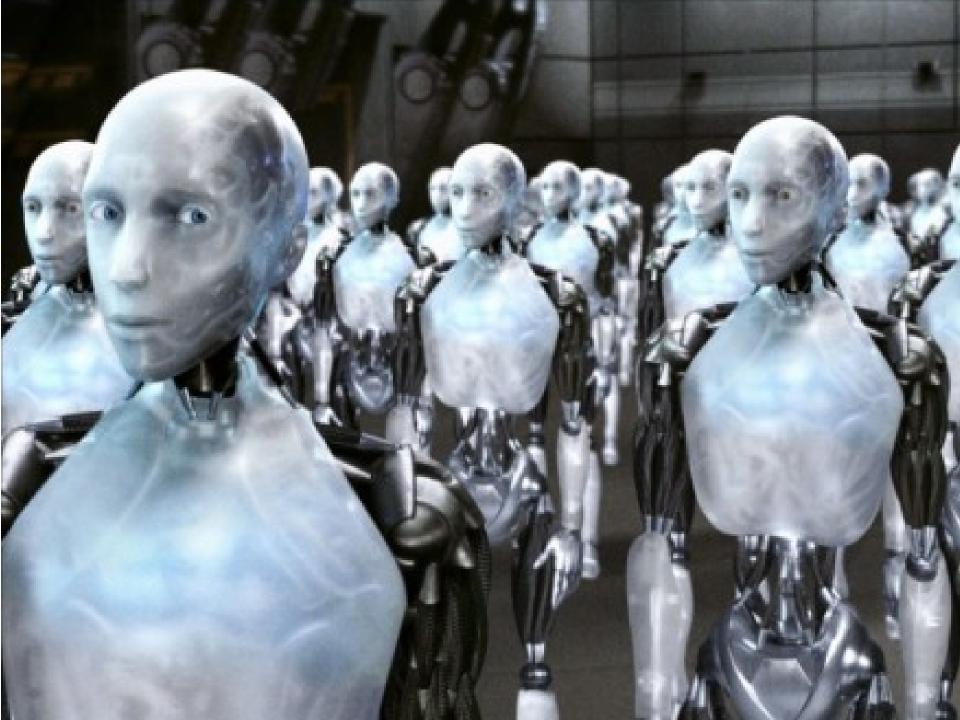






I'm sorry Dave,
I'm afraid I can't do that



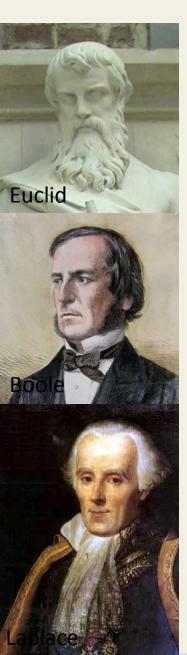


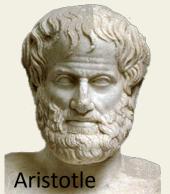






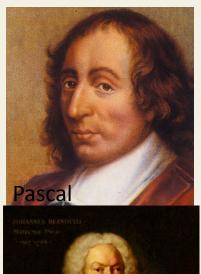
History of algorithms









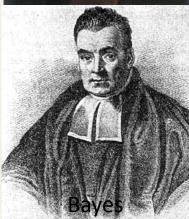












Birthplace of modern AI (1956)





World Wide Web













AI in learning

LEVEL 1 Tech
LEVEL 2 Assistive
LEVEL 3 Analytic
LEVEL 4 Hybrid
LEVEL 5 Autonomous









in learning Tech LEVEL 2 Assistive LEVEL Analytic Hybrid 3 LEVEL LEVEL Autonomous LEVEL































AR

Magic Leap raises \$793 valued at \$4.5B!





Chris Piech's team (Stanford & Google)



$$\chi'' - \chi^2 \sqrt{6} + \chi^2 \sqrt{2} - \sqrt{12}$$
 $\chi'' + (\sqrt{2} - \sqrt{6}) \chi^2 - 2\sqrt{3}$
 $\chi'' + \sqrt{2} \chi^2 - \sqrt{6} \chi^2 - \sqrt{12}$
 $\chi'' + \sqrt{2} \chi^2 - \sqrt{6} \chi^2 - \sqrt{12}$

Why important?

Better than a teacher









"I think there is a world market for maybe five computers"

Watson (IBM)

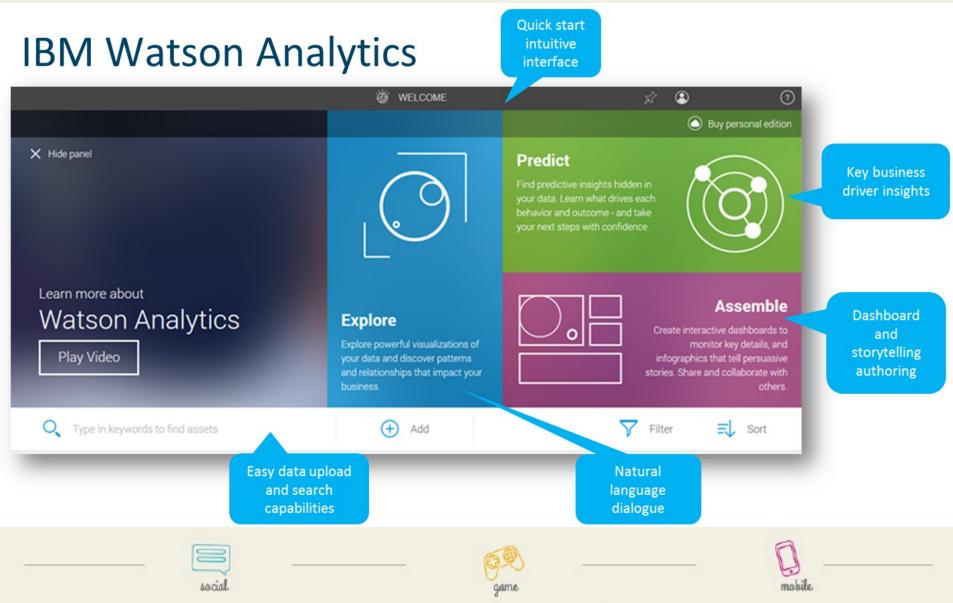
Quote is bullshit, never happened!













in learning Tech LEVEL 2 Assistive LEVEL Analytic Hybrid 3 LEVEL LEVEL



LEVEL





Autonomous





$$PR(p_i;t+1) = \frac{1-d}{N} + d\sum_{p_j \in M(p_i)} \frac{PR(p_j;t)}{L(p_j)}$$







1-1 1-1 1-1 1-1 = - 113 62 (m = 3) + 3m = 6 12 13m - 2(3 - 6m) $21. \ 9x - 7 = 13 - 4x$ chairs sells price of the $x = \frac{20}{13}$. The table and the price Sh A dining table with four chairs odd integers such that the sum more than the combined price of 0=1 A Find three consecutive odd inte 27. (3-x)(1 - 6)5. Give a reason for each step of the = 0 = i+0=0 0+(-0)

0.4





Xiaoce (Little Ice)

3 days 1.5 m people 0.5 billion conversations Average 60 x per month 850,000 followers

More it's used smarter it gets





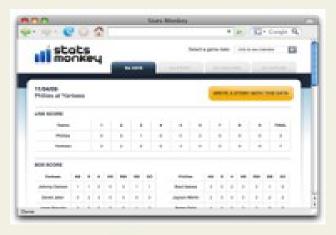


Journalism: Algorithms more powerful than news editors



















1 CLICK TEACHER







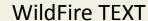












WildFirePPT

WildFireVIDEO





















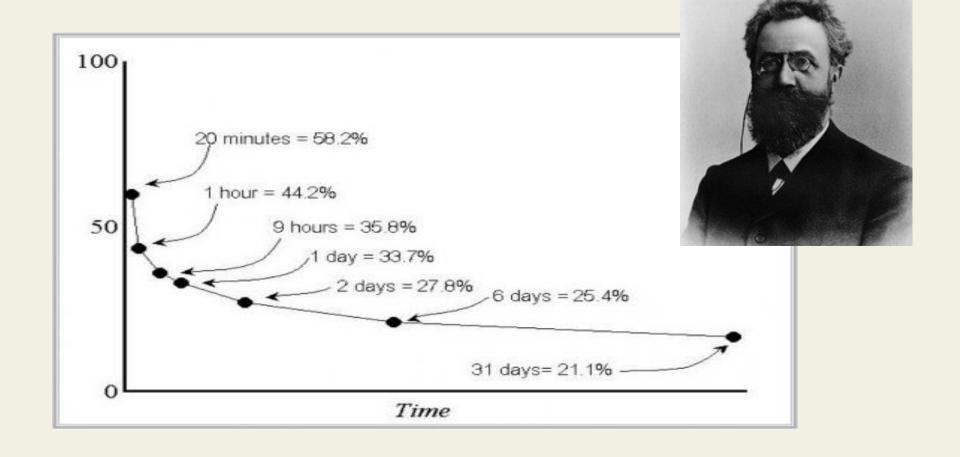










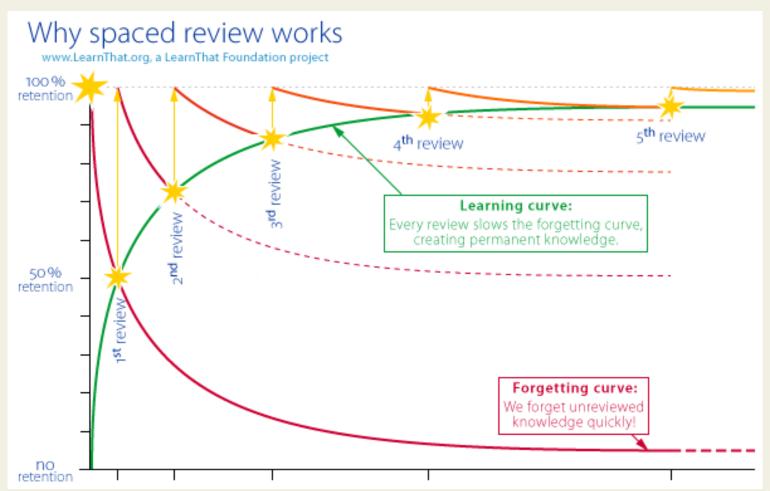












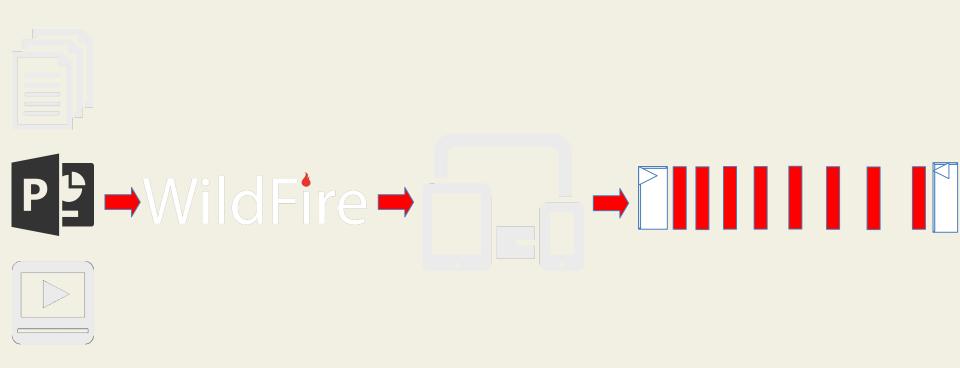






...then spaced practice





wildfirelearning.co.uk









ONLINE ASSESMENT















AUTOMATED ESSAY MARKING







"If only I had a few more papers to grade" said no teacher ever.



AI in learning

LEVEL 1 Tech
LEVEL 2 Assistive

LEVEL 3 Analytic
LEVEL 4 Hybrid
LEVEL 5 Autonomous









#1 Most Trusted Online Dating Site

Free to Review Your Matches

Already on Facebook?

First Name:

First Name:

First name only please!

I'm a: Woma \$\displayses \text{ seeking Men }\displayses

Zip Code:

Country: United States \$\displayses

Email:

Note: Your email is used to log back in

Confirm Email:

Password:

Must be at least 5 characters

How did you Please select... \$\displayses







Date Smarter, Not Harder

You're not looking for lots of dates, just better ones. And that's where we come in. Take our Relationship Questionnaire to define what you are looking for, and we'll help you find the most promising matches. People whose goals, values and personality traits most complement you. Let's get started.

MEMBER LOGIN F B Q +1 < 645

How We

Match You





Recommended for You

Amazon.com has new recommendations for you based on $\underline{\text{items}}$ you purchased or told us you own.



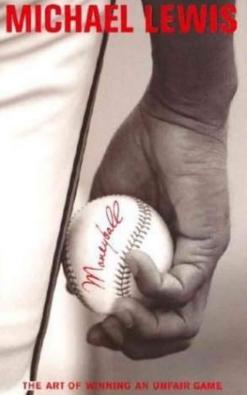
Google Apps
Deciphered: Compute in
the Cloud to Streamline
Your Desktop

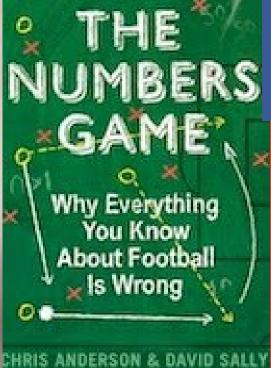


Google Apps
Administrator Guide: A
Private-Label Web
Workspace



Googlepedia: The Ultimate Google Resource (3rd Edition)





facebook

NETFLIX



in learning Tech LEVEL 2 Assistive LEVEL Analytic **Hybrid** 3 LEVEL LEVEL Autonomous LEVEL



















CogBooks[™]

The Product

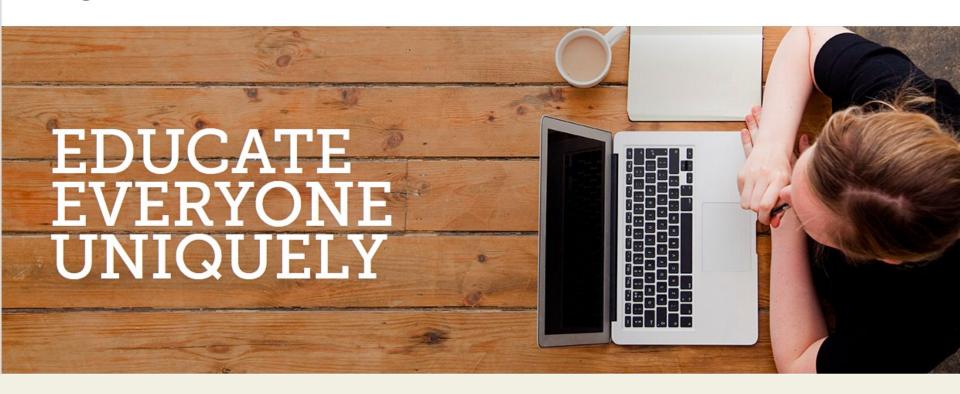
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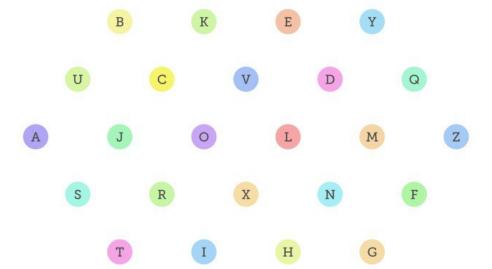








Adaptive sets you free from the A to Z



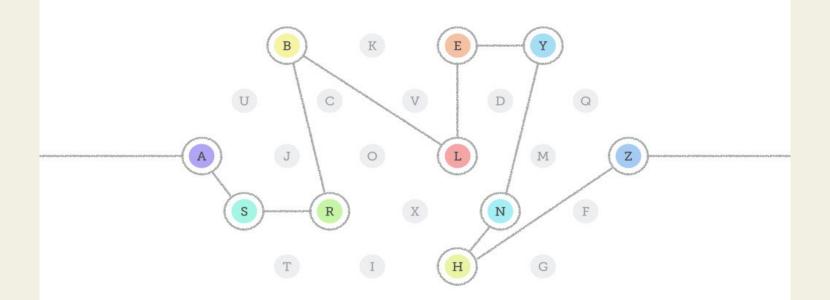








Adaptive sets you free from the A to Z



It understands you – and finds the best way through





























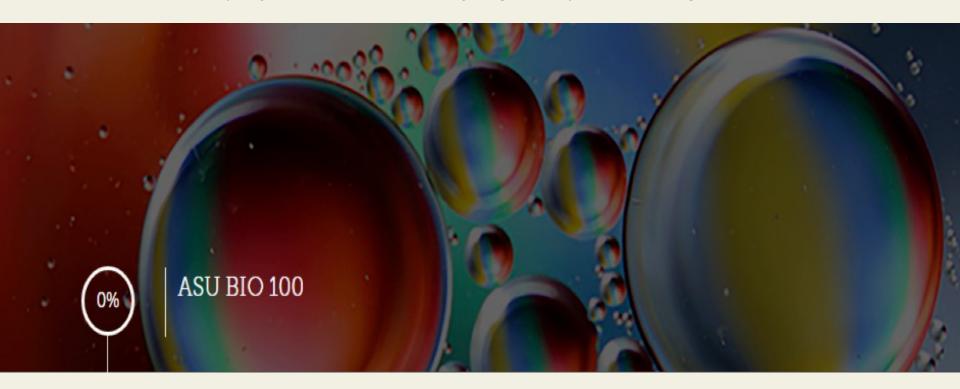
Biology BIO100

Susan Holechek (most experienced instructor)

72% in Spring to over 92% in Fall

Goal: over 90% (Met for first time)

"I think we had the perfect combination of a good system and good teacher"

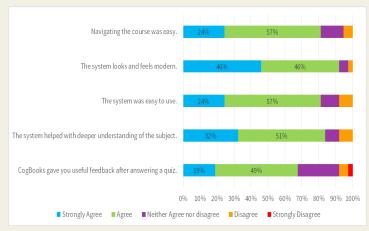


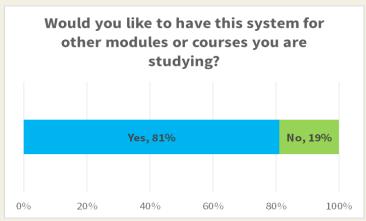




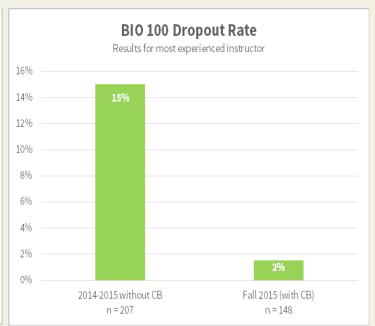


















10 things algorithms do that teachers can't



- 1. **Ignore** gender, race, social background
- 2. **Free** from cognitive biases
- 3. Never get tired, ill, irritable, disillusioned
- 4. **Do** things that brains **cannot**
- 5. **Personalize** learning
- 6. **Personal** reporting
- 7. **Prevent** failure & drop-out
- 8. Automatically improves courses
- 9. Scale
- 10. Enterprise wide solutions









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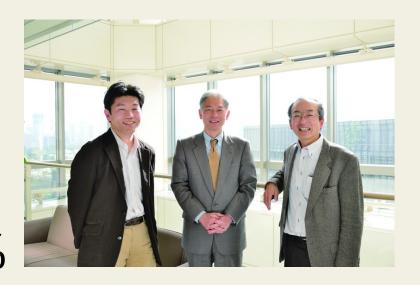




Todai Robot Project (Noriko Arai)



- Passed entrance exam: Tokyo Univ.
- Maths, PhysicsEnglish & History
- 53.8% v human 43.8%



Why important?

Can Al replace graduate-level jobs?









AI ECONOMICS

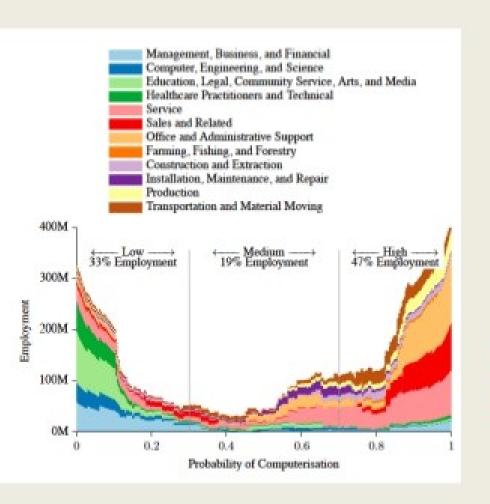






Oxford: 47% of jobs to be automated

"in a decade or two"



702 occupations

At risk: telemarketers, accountants, real estate, retail sales, loan officer

- 1. Perception and Manipulation
- 2. Creative Intelligence
- 3. Social Intelligence

Universal Basic Income?

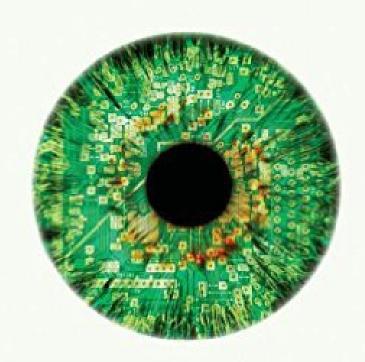
Frey and Osborne, 2013, "The Future of Employment: How susceptible are jobs to computerization?"

http://www.oxfordmartin.ox.ac.uk/downloads/academic/The_Future_of_Employment.pdf

MARTIN FORD

RISEOF ROBOTS TECHNOLOGY AND THE THREAT OF A JOBLESS FUTURE

RICHARD DANIEL SUSSKIND SUSSKIND



THE FUTURE OF THE PROFESSIONS

HOW TECHNOLOGY WILL TRANSFORM THE WORK OF HUMAN EXPERTS

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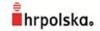














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Serwis Prawa Pracy

i Ubezpieczeń Społecznych





