

Asian Actuarial Conference 2025 Bangkok

AI and Actuarial Science: A Synergistic Future

14 Nov | 09:00 - 09:40

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AI and actuarial science *A synergistic future*

James Guszcza, PhD, FCAS
Asian Actuarial Conference
Bangkok
November 2025



AI is ...

AI is the new electricity.

— Andrew Ng



AI is an ideology, not a technology.

— Jaron Lanier and Glen Weyl



AI as Normal Technology

An alternative to the vision of AI as a potential superintelligence

BY ARVIND NARAYANAN & SAYASH KAPOOR

APRIL 15, 2025

MIT

The GenAI Divide

STATE OF AI IN
BUSINESS 2025

Despite \$30–40 billion in enterprise investment into GenAI, this report uncovers a surprising result in that 95% of organizations are getting zero return.

Most fail due to brittle workflows, lack of contextual learning, and misalignment with day-to-day operations.

"Breaks in edge cases and doesn't adapt."

"Can't customize it to our specific workflows."

"Too much manual context required each time."

"It doesn't learn from our feedback."

AI is an ideology, not a technology

OpenAI's mission is to ensure that artificial general intelligence (AGI)—by which we mean highly autonomous systems that outperform humans at most economically valuable work—benefits all of humanity.

The company's mission statement was “solve intelligence”, and then use it to solve everything else



TECH · A.I.

DeepMind co-founder Mustafa Suleyman warns AI is a ‘fundamentally labor replacing’ tool over the long term

BY [WILL DANIEL](#)
January 17, 2024 at 11:27 PM GMT+1



The slovenliness of our language makes it easier to have foolish thoughts.



— *George Orwell*

Exclusive: Anthropic warns fully AI employees are a year away

Google Engineer Claims AI Chatbot Is Sentient

If A.I. Systems Become Conscious, Should They Have Rights?

As artificial intelligence systems become smarter, one A.I. company is trying to figure out what to do if they become conscious.



By Kevin Roose

Reporting from San Francisco

April 24, 2025

“The advent of AI obliges us to confront whether there is a form of logic that humans have not achieved or cannot achieve, exploring aspects of reality we have never known and may never directly know.

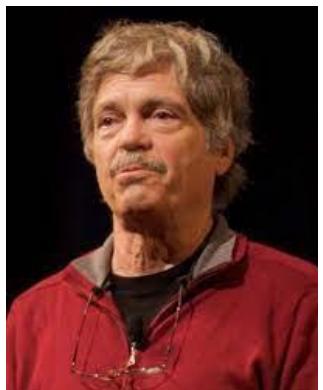
The Age of AI
And Our Human Future

Henry A.
Kissinger

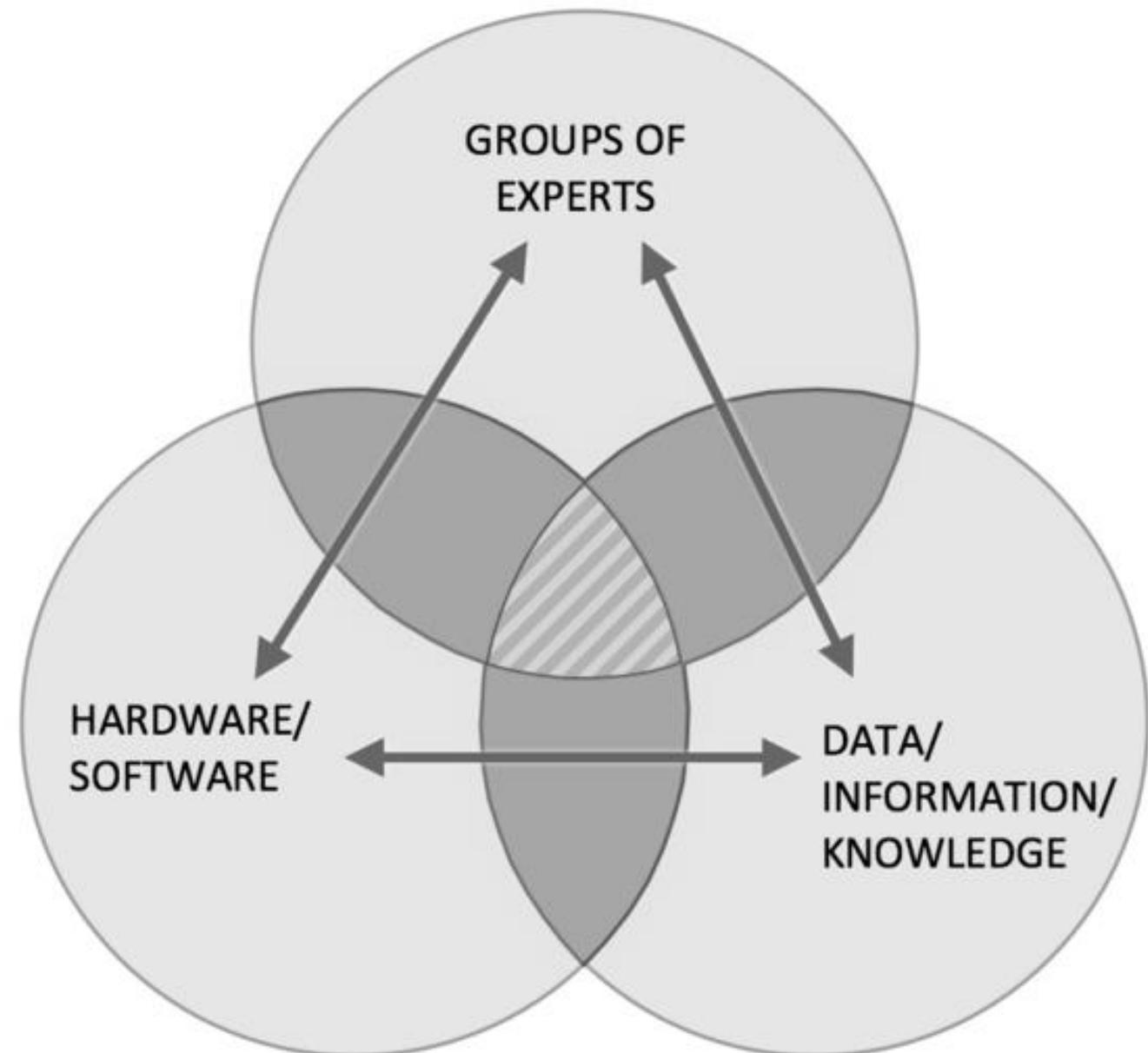
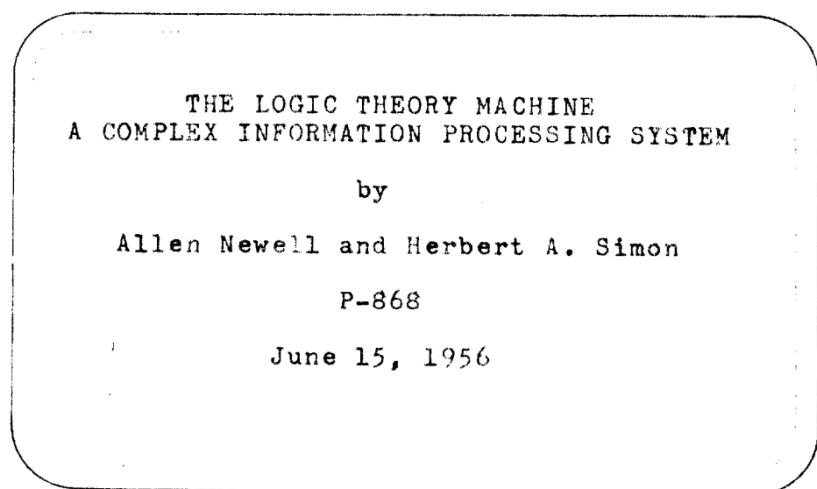
Eric
Schmidt

Daniel
Huttenlocher

*A change in perspective is
worth 80 IQ points.*



— Alan Kay



COLLECTIVE INTELLIGENCE

Where is the intelligence in this story?

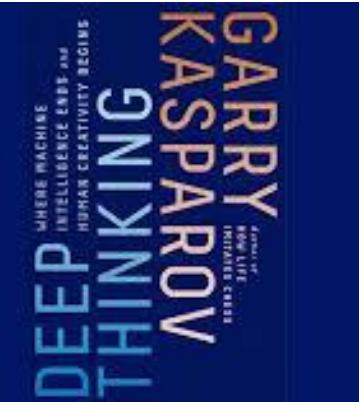
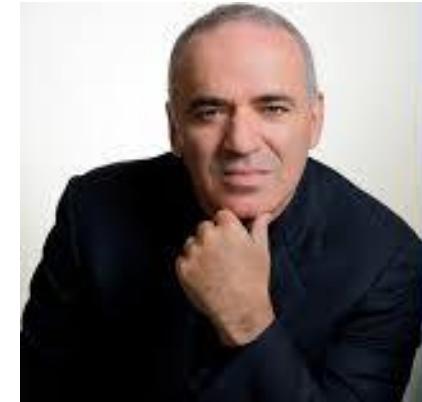
Their skill at manipulating and “coaching” their computers to look very deeply into positions effectively counteracted the superior chess understanding of their grandmaster opponents and the greater computational power of other participants.

Weak human + machine + **better process** was superior to a strong computer alone and, more remarkably, superior to a strong human + machine + inferior process.

— Garry Kasparov, NYRB 2010



And the winners are....: Zack Stephen and Steven Cramton



System-level intelligence is a design challenge

Weak human + machine + better process was superior to a strong computer alone and, more remarkably, superior to a strong human + machine + inferior process.

— Garry Kasparov

Hybrid Intelligence is about more than optimizing algorithms.

It is about “optimizing” processes of **human-machine collaboration**.

Statistics and computer science provides an incomplete scientific framework.

Also needed: Ideas from ethics, psychology, human-centered design, behavioral economics, ...

Deloitte, 191 Peachtree St NE Suite 2000,

The Steamhouse Lounge, 1051 W Peach

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Options

Send directions to your phone

via I-75 N/I-85 N
Fastest route now due to traffic conditions

7 min
2.7 miles

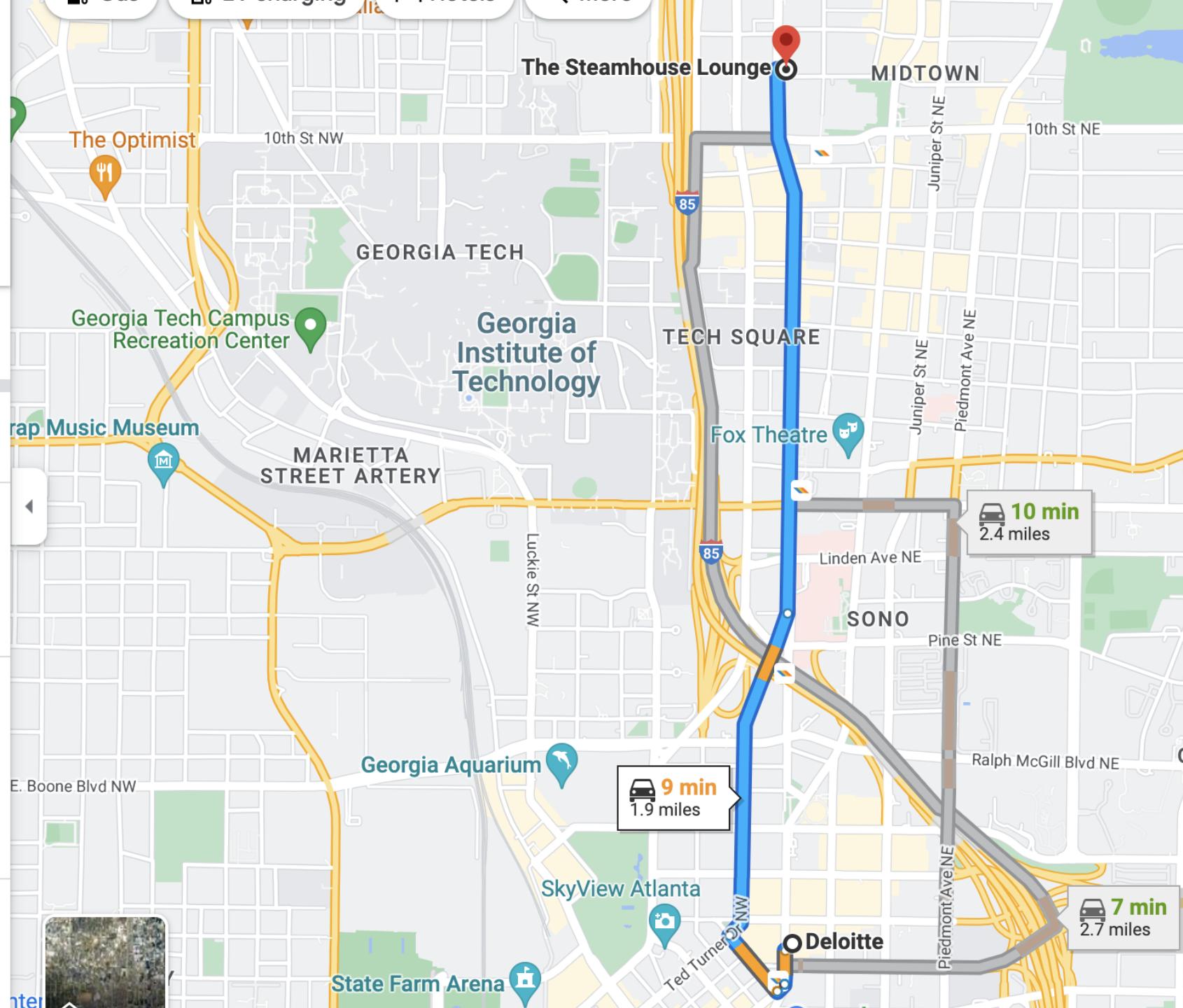
via Ted Turner Dr NW and W Peachtree St NW
Some traffic, as usual

9 min
1.9 miles

Details

via Piedmont Ave NE and W Peachtree St NE
2.4 miles

10 min



Artificial stupidity: Death by GPS

Death by GPS

Article [Talk](#)

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From Wikipedia, the free encyclopedia

Death by GPS refers to the death of people attributable, in part, to following [GPS](#) directions or GPS maps.^{[1][2][3]} Death by GPS has been noted in several deaths in [Death Valley](#), California,^{[4][5]} a lost hiker at [Joshua Tree National Park](#) in southeastern [California](#),^[6] and incidents in [Washington State](#), [Australia](#), [England](#), [Italy](#) and [Brazil](#).

Tesla says driver ignored warnings from Autopilot in fatal California crash



Google Maps Official Booked After GPS Error Leads To Death Of Three In Bareilly, UP

Four engineers of the Public Works Department (PWD) and a Google Maps official have been booked in connection with the death of three men who were in a car that fell from an under-construction bridge while following directions on the navigation app.



Sahil Kukreja Updated Nov 26, 2024, 10:47 AM IST



Artificial stupidity: Disgrace by GPT

New York lawyers sanctioned for using fake ChatGPT cases in legal brief

By **Sara Merken**

June 26, 2023 1:28 AM PDT · Updated 2 years ago



Judge Blasts Stanford AI Expert's Credibility Over Fake, AI-Created Sources

In December, professor Jeff Hancock admitted in a court filing that he had used ChatGPT, blamed the bot for an error and two other AI “hallucinations” he had subsequently discovered in his submission, and apologized to the court.

January 16, 2025 • Tribune News Service

Deloitte will refund Australian government for AI hallucination-filled report

Consulting firm quietly admitted to GPT-4o use after fake citations were found in August.

KYLE ORLAND – OCT 6, 2025 12:30 PM | 150

Artificial stupidity

They Asked an A.I. Chatbot Questions. The Answers Sent Them Spiraling.

Generative A.I. chatbots are going down conspiratorial rabbit holes and endorsing wild, mystical belief systems. For some people, conversations with the technology can deeply distort reality.

Man develops rare condition after ChatGPT query over stopping eating salt

US medical journal article about 60-year-old with bromism warns against using AI app for health information



© The Annals of Internal Medicine article, published last week before the launch of GPT-5, said the patient appeared to have used an earlier version of ChatGPT. Photograph: Cheng Xin/Getty Images

A US medical journal has warned against using ChatGPT for health information after a man developed a rare condition following an [interaction with the chatbot](#) about removing table salt from his diet.

Artificial stupidity

CRIME

'60 Minutes' Features Man Falsely Arrested By Detroit Police Because Of Flawed Facial Recognition

 Tweet

 Share

May 16, 2021, 10:28 PM  by Allan Lengel

"At this point, I'm upset. Like, bro, why am I even here? He's like, 'So, I guess the computer got it wrong.'"

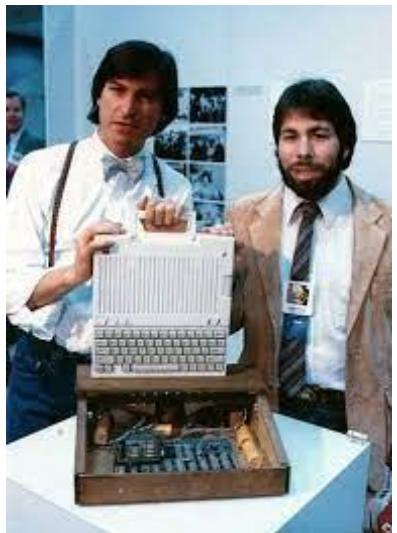
*We must design for the way
people behave, not for how
we wish them to behave.*

— Don Norman



*Computers are like a bicycle
for our minds.*

— Steve Jobs



AI and conspiratorial thinking

They Asked an A.I. Chatbot Questions. The Answers Sent Them Spiraling.

Generative A.I. chatbots are going down conspiratorial rabbit holes and endorsing wild, mystical belief systems. For some people, conversations with the technology can deeply distort reality.

Can AI talk us out of conspiracy theories?

by [MIT Sloan Office of Communications](#)  | Sep 13, 2024

New MIT Sloan research shows that conversations with large language models can successfully reduce belief in conspiracy theories.

AI and educational outcomes

Updated: JUN 23, 2025 10:16 AM ET

ChatGPT May Be Eroding Critical Thinking Skills, According to a New MIT Study



+ DECODER + AI + PODCASTS

Sal Khan is hopeful that AI won't destroy education

The CEO of Khan Academy and guest host Hank Green on online education and what AI assistants can really do for learning.

by + Hank Green
Sep 8, 2025, 7:00 AM PDT



12 Comments (12 New)

“Look, this is going to be Socratic, use these techniques. You’re not going to give answers, but nudge students forward.” There’s a lot more to it. But that’s the gist of it.

AI and ethical behavior

SEPTEMBER 28, 2025 | 4 MIN READ

People Are More Likely to Cheat When They Use AI

Participants in a new study were more likely to cheat when delegating to AI—especially if they could encourage machines to break rules without explicitly asking for it

BY RACHEL NUWER EDITED BY ALLISON PARSHALL

The other experiments used a tax evasion game that incentivized participants to misreport their earnings to get a bigger payout. These exercises were intended to get “to the core of many ethical dilemmas,” Köbis says. “You’re facing a temptation to break a rule for profit.”

AI and ethical behavior

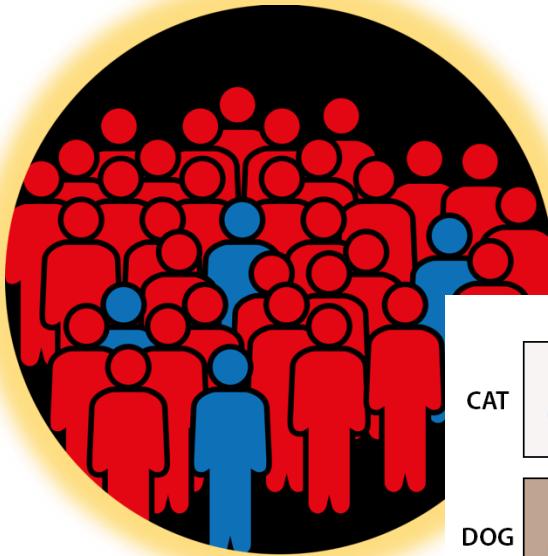


Behavioral Analytics Help Save Unemployment Insurance Funds

New Mexico uses data to identify misinformation, save money

ISSUE BRIEF October 26, 2016

MLOps view



Hybrid Intelligence view



A change in perspective is worth 80 IQ points

- **AI (like intelligence) isn't just one thing**
 - It's Generative AI *and also* predictive models, GPS, internet search, recommendation algorithms, image/voice recognition, ...
- Look for intelligence at the level of the **human-AI system**
 - The “intelligence” at the level of the *algorithm* is still pretty thin
 - AI’s still have less common sense than young children
- Achieving system-level intelligence requires multidisciplinary perspectives, and a **design focus**
 - It should be professionalized along the lines of actuarial science

A change in perspective motivates innovative business models

The last-mile problem: How data science and behavioral science can work together

Deloitte Review Issue 16



Jim Guszczak

United States



The Vitality Habit Index

How to create habits
for a longer, healthier life

Vitality | London School of Economics

Can Telematics Improve Driving Style? The Use of Behavioral Data in Motor Insurance

by Alberto Cevolini ¹ , Elena Morotti ^{2,*} , Elena Esposito ^{2,3} , Lorenzo Romanelli ⁴ , Riccardo Tisseur ⁴ and Cristiano Misani ⁴

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Big Data Cogn. Comput. 2025, 9(9), 225; <https://doi.org/10.3390/bdcc9090225>

Rethinking Workers' Comp with AI: Why Pay for Claims When You Can Prevent Them?

Jeff Goldsmith • January 31, 2024