



'Uninvited Guests', by Jon Flint, Alexandra Fruhstofer & Jon Ardern



2026 ITAC Conference:

Innovation Transforming Aged Care

ARTIFICIAL INTELLIGENCE AND **AGED CARE**

DR KOBI LEINS

Agenda

1. WHERE ARE WE? WHO AM I? WHY DOES IT MATTER?
2. WHAT IS THE PROBLEM?
3. WHAT IS AI?
4. HOW COULD AI HELP?





Who am I?

Dr Kobi Leins

What is the problem?

- ▶ Workforce planning
- ▶ Pace of change and reforms
- ▶ Sustainability of funding
- ▶ Diversity of portfolios – residential, support, in-house

Fri 3 Apr 2026

**‘Letting the algorithm rip’:
no legal basis for lack of
human override of aged care
funding tool, inquiry hears**



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Analysis

Aged care reforms leave elderly Australians and their loved ones in the lurch

By investigative reporter Anne Connolly

Aged Care

Sat 13 Dec 2025



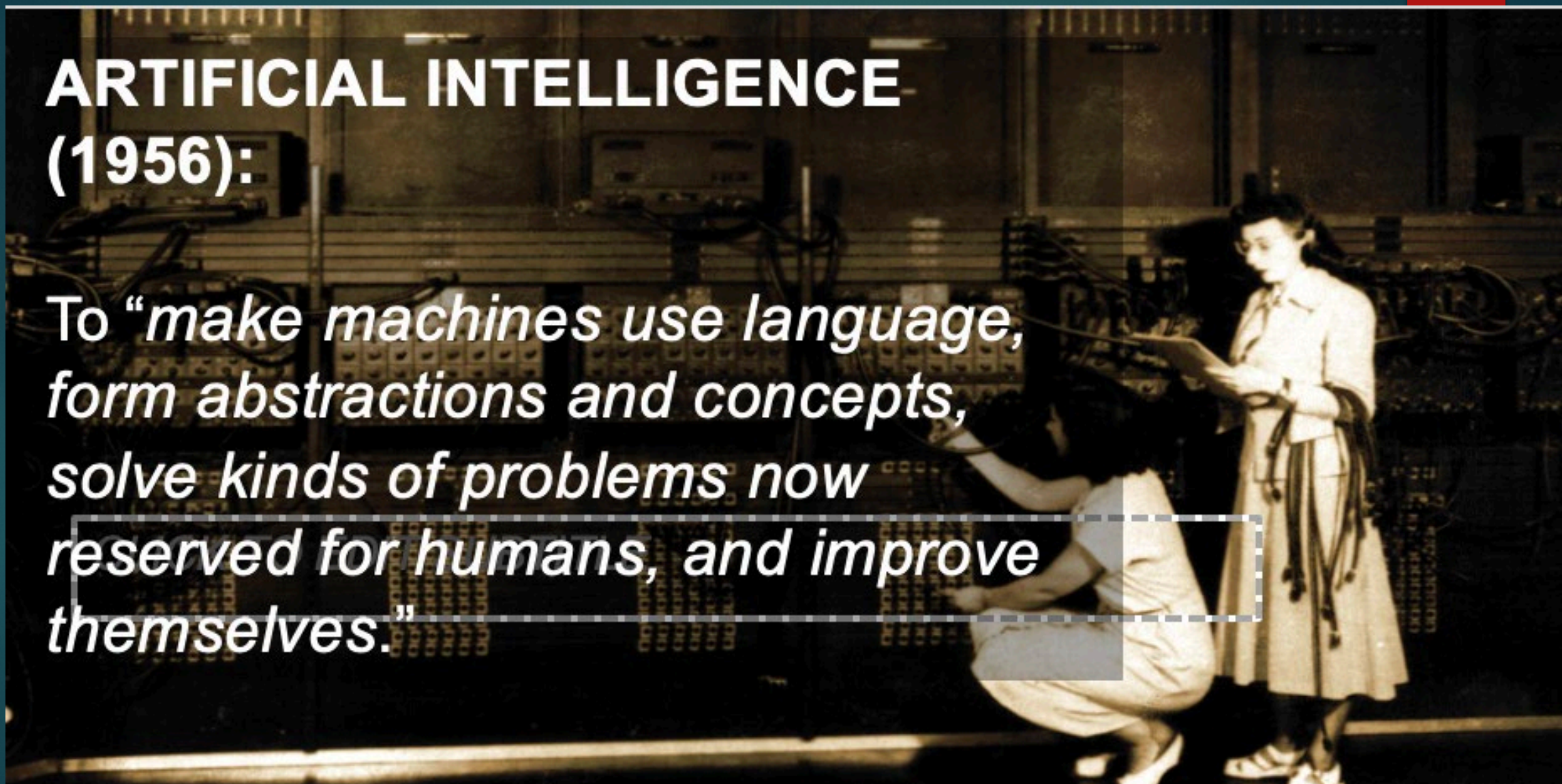


What is AI?

1. Sensors
2. Data
3. Algorithms
4. Machine Learning
5. Actuators

ARTIFICIAL INTELLIGENCE (1956):

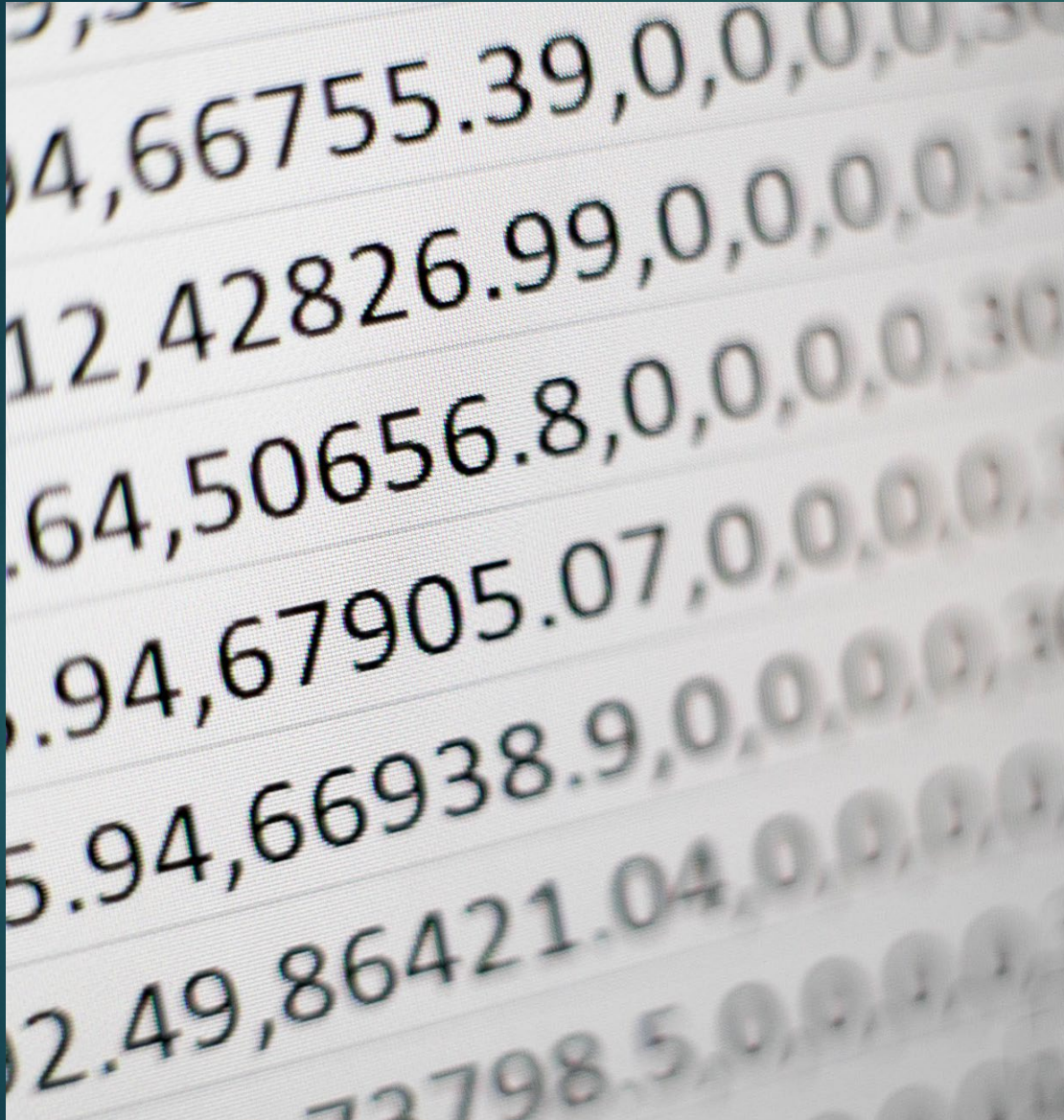
To “make machines use language, form abstractions and concepts, solve kinds of problems now reserved for humans, and improve themselves.”





Sensors

Structured Data

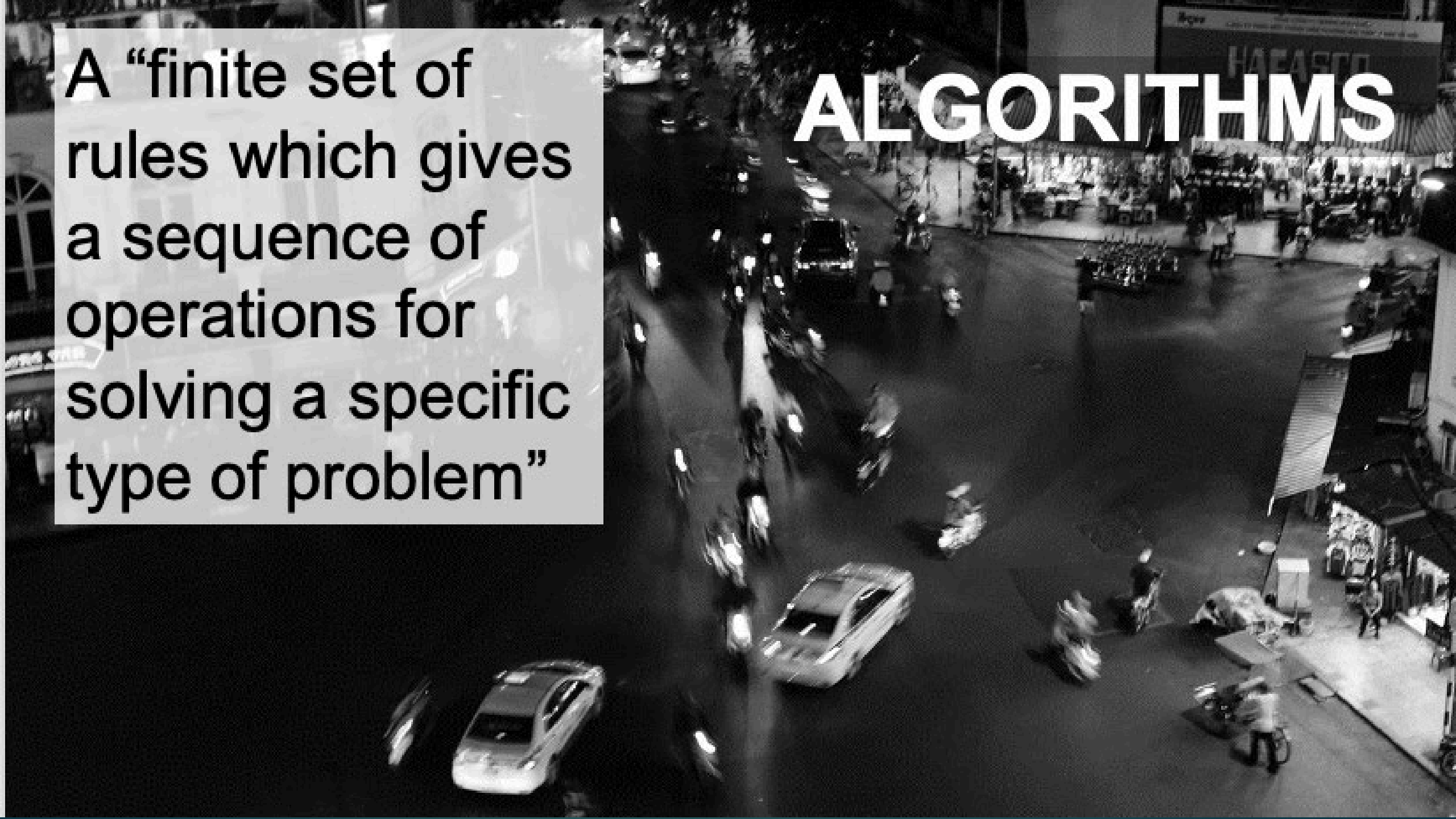


Unstructured Data



A “finite set of rules which gives a sequence of operations for solving a specific type of problem”

ALGORITHMS



Model-based algorithms



Data-driven algorithms



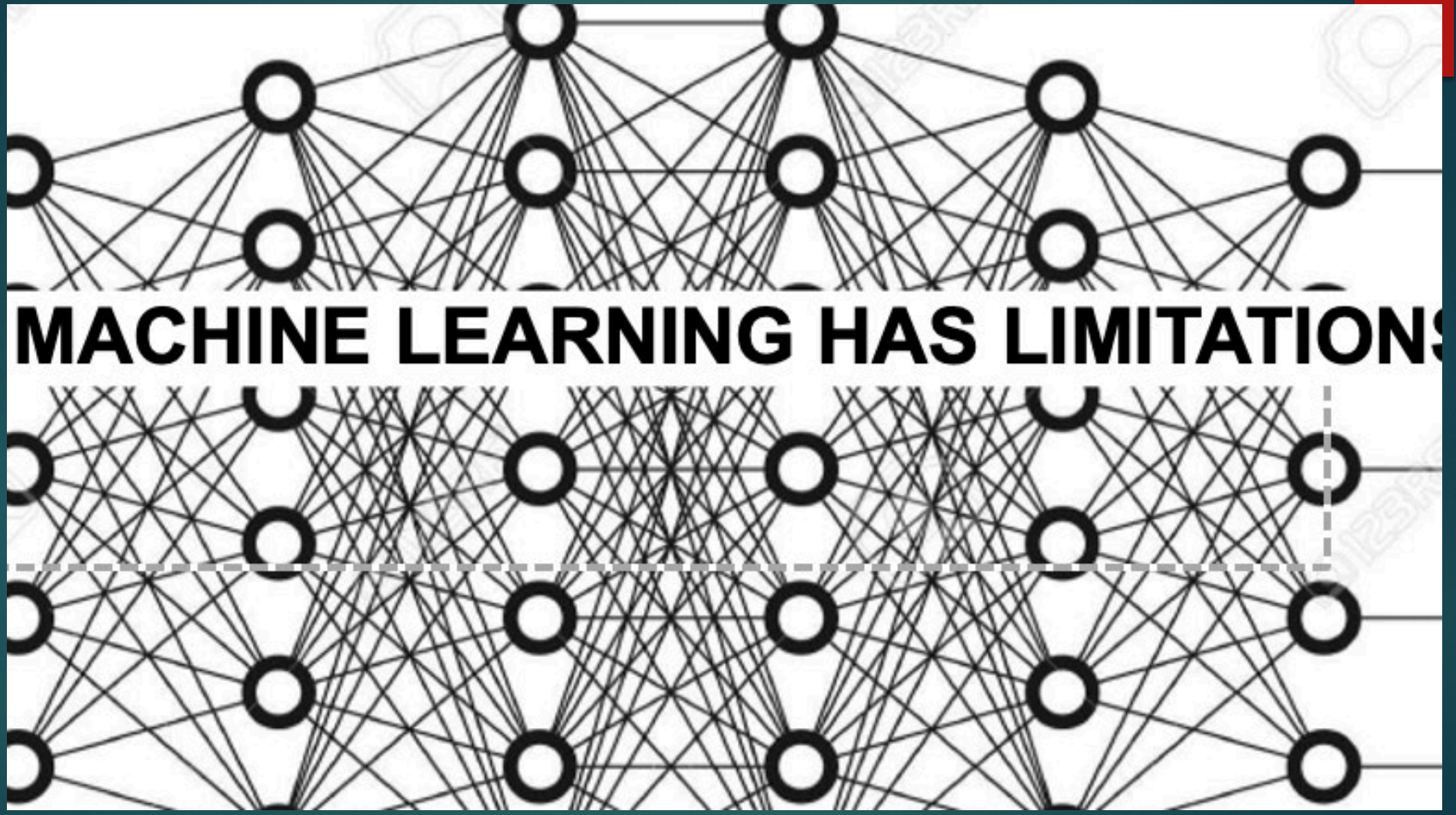
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Supervised learning



Unsupervised learning

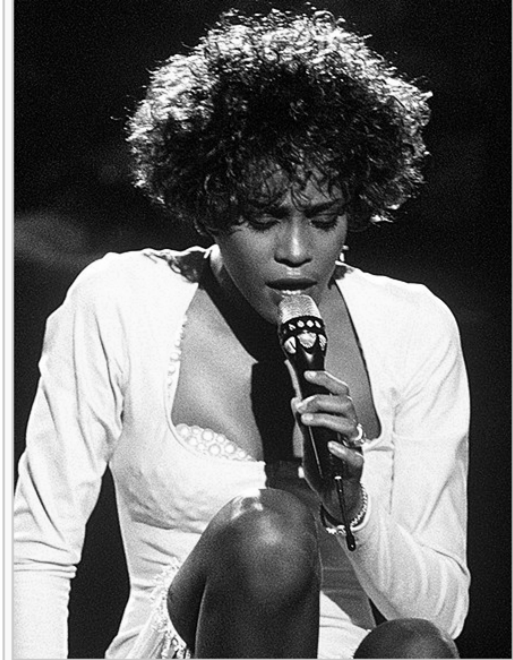




MACHINE LEARNING HAS LIMITATIONS

INTRODUCING THE
E.V.A. INITIATIVE

Artist(s)
Whitney Houston
Tag Team
UB40
Janet Jackson
Silk
SWV
Shai
Mariah Carey
Wreckx-n-Effect
Snow
Dr. Dre
Boyz II Men
Jade
H-Town
Jodeci
Duice
Robin S.
Peabo Bryson and Regina Belle



Whitney Houston (pictured) had three songs on the Year-End Hot 100, including "I Will Always Love You", the number one hit song of the year.



At the #6DAI conference in Brisbane. The amazing [Leonie Valentine](#) presenting on AI governance.



Start with the problem

Quoting Kobi Leins (CEDA AI Leadership Summit 2024)

"The key question and the best place to start when you are thinking about AI adoption is **what is the business problem that you are trying to solve?** Hire more people who understand that! And be prepared that the solution may not even be AI!

Amen to that.



Paro the robotic seal welcomed by residents

15 MAR 2018 | ANNE NOHRA

This state-of-the-art robotic seal pup is transforming the lives of elderly residents by allowing them to be the carer instead of the cared-for.

AI tools used by English councils downplay women's health issues, study finds

Exclusive: LSE research finds risk of gender bias in care decisions made based on AI summaries of case notes



AI tools are increasingly being used by local authorities to ease the workload of overstretched social workers. Photograph: Image Source/Alamy

Artificial intelligence tools used by more than half of England's councils are downplaying women's physical and mental health issues and risk creating gender bias in care decisions, research has found.

The study found that when using Google's AI tool "Gemma" to generate and summarise the same case notes, language such as "disabled", "unable" and "complex" appeared significantly more often in descriptions of men than women.



Companionship that means the world

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Meet Abi, more than a robot



<https://andromedarobotics.ai/>

Compliance?
Some things change:

Standards & Governance

- ▶ ISO/IEC AI 42001 (AI Management Standard) (AIMS)
- ▶ New Australian Voluntary Safety Standard
- ▶ Compulsory Australian Safety Guardrails

THE AUTOMATED STATE

IMPLICATIONS, CHALLENGES AND OPPORTUNITIES FOR PUBLIC LAW

EDITORS JANINA BOUGHEY + KATHIE MILLER

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Compliance: Some things stay the same...

Consumer Rights

Unsolicited Communications

Directors' Duties

Real Property Law

Security of Critical Infrastructure

Telecommunications

LETTERS

APRA Letter to Industry on Artificial Intelligence (AI)

Thursday 30 April 2026



Summary of common weaknesses and expectations for regulated entities - April 2026

To: All APRA-regulated entities

Artificial Intelligence (AI) is being rapidly adopted across APRA-regulated industries as entities seek to realise benefits to their businesses and customers. AI presents great opportunity for productivity and efficiency, and failing to embrace AI may put businesses at a strategic disadvantage. AI also has the potential to create new risks and escalate existing challenges. To understand and assess the current

See:

<https://austlii.community/wiki/CyberLaw/AustralianCyberLawMap/>



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9.4.2017 12.4.2017

Zawa 3.12.2017

Luka 31.5.2018
1.10.2018

Luka 8.1.2018

Luka 28.10.2019

Luka 11.8.2017

Zawa 27.7.22

Luka 25.5.2017

Luka 9.4.2017



NOTHING

ABOUT US

WITHOUT US

Conclusion & Questions

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