

The background of the image is a piece of white paper with black Chinese calligraphy in a cursive style. The characters are scattered across the page, with some being more prominent than others. The overall tone is traditional and artistic.

Will You Learn **Chinese**
to Advance in **AI**

Nihao! I'm Charlotte Han / 韓亦瓏



@sunsiren

- *I process data and compute digital strategies for a living*
- *Taiwan -> U.S. -> Germany*
- *Passionate about helping people understand how technologies can advance human lives*

**This is my view,
not necessarily my employer's.**

The Chinese Room





China, Before

Century of Humiliation

1839 to 1949

By Henri Meyer

A nighttime photograph of the Shanghai skyline, featuring the Oriental Pearl Tower and the Shanghai Tower. The city lights are visible against a dark, cloudy sky.

**By year 2030, China wants to be the
world leader in AI**



AAAI-17
clashed with the
Chinese New Year,
so it was
postponed.



“World” Intelligence Congress



WIC

第三届世界智能大会

THE 3rd WORLD INTELLIGENCE CONGRESS




智能新时代：进展、策略和机遇

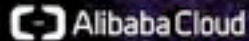
INTELLIGENCE NEW ERA: PROGRESS, PLANNING AND OPPORTUNITY

2019.5.16-19 16-19 May2019

Alibaba Cloud: “THE” Computing Conference

The logo for The Computing Conference 2017 features a large, stylized 'A' composed of two overlapping triangles with a diagonal line pattern. The text 'The Computing Conference 2017' is centered over the 'A' in a white, sans-serif font.

The Computing
Conference 2017

The Alibaba Cloud logo consists of a white square icon with a stylized 'A' inside, followed by the text 'Alibaba Cloud' in a white, sans-serif font.

Alibaba Cloud

A photograph of Jack Ma, the founder of Alibaba Group, speaking at a conference. He is wearing a white shirt and pointing upwards with his right hand. The background is dark with blue and purple lighting.

Jack Ma

delivers speech at The
Computing Conference
2018

[...Alibaba Did Changed the Name to APSARA]



The image shows a website banner for the APSARA 2019 Hangzhou Apsara Conference. The background is dark with abstract, flowing blue and purple lines. At the top left, the Alibaba Group logo and the APSARA logo are visible. The top right contains navigation links: 'Homepage', 'Agenda', 'Exhibitor', and 'Guide', followed by a 'Purchase Pass' button and a 'Register for Updates' button. The main text in the center reads 'APSARA' in large white letters, with '2019 HANGZHOU Apsara Conference' and 'Sept. 25 - 27' below it. The location 'International Convention and Exhibition Center, Cloud Town' is also listed. A 'Purchase Pass' button is centered at the bottom.

Alibaba Group | APSARA

Homepage | Agenda | Exhibitor | Guide

Purchase Pass | Register for Updates

APSARA

2019 HANGZHOU
Apsara Conference

Sept. 25 - 27
International Convention and
Exhibition Center, Cloud Town

Purchase Pass

“World” Artificial Intelligence Conference 2019



Bird's Eye View:

Applied AI in China



China's AI Leaders: Baidu, Alibaba & Tencent



Baidu 百度



Alibaba Group



Tencent 腾讯

BAT: Top-Heavy, Application-Focused AI Industry

BAT has promoted a top-heavy, application-focused AI industry

Number of AI companies funded by each giant

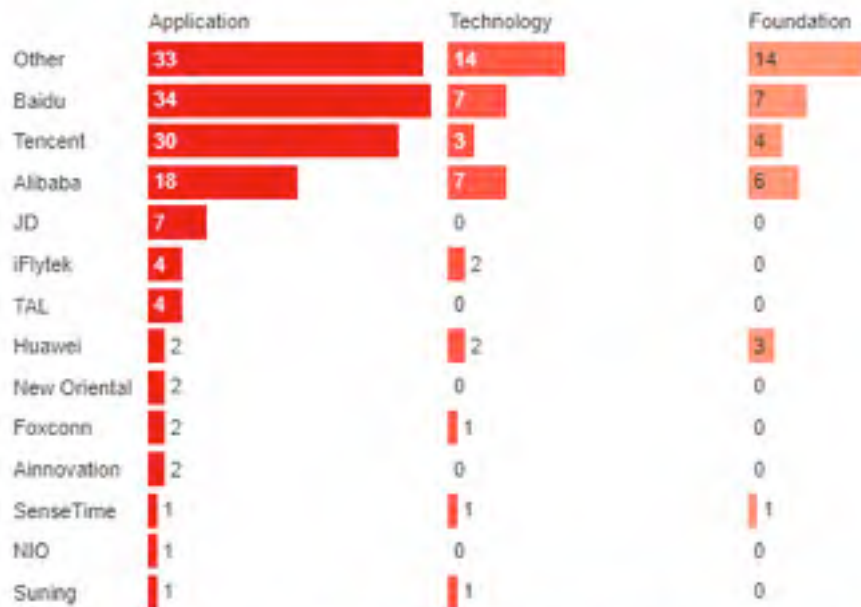


Chart: MIT Technology Review • Source: Karson Elmgren via Huxiu.com • Created with Datawrapper



City Incident Perception and Intelligent Processing

Alarm Received **9878** Captured by Video **2439**

Processing Time **58** s
Open Camera by Application
Join Channel **8**

Taxi Car **87** Ambulance **32** Fire Truck **19**



Public Transportation and Operational Vehicle Scheduling

Bus **1569** Taxi **7739** Public Bike **86**



Bus Traffic Index **7.3** Taxi Loading Rate **57.9** Bicycle for Rent **50.5**
Parking Volume **240.0** Subway Flow **17.6** Outpatients **5.7**

ET BRAIN

Total Traffic Today **460.3** Scenic Area Traffic **18.1** Expressway Traffic **224.6** Delay Index **2.0** Congestion Index **7.3**

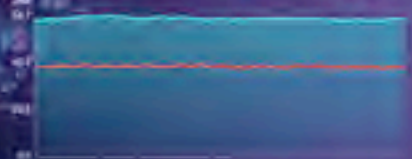
▲ +0.67 ▼ -0.03 ▲ +0.34 ▼ -0.08 ▼ -0.74

Traffic Situation Perception and Signal Light Optimization

Main Stem Avg Speed **43.4** km/h ▲ +8.13
High Way Avg Speed **66.4** km/h ▲ +4.99

Congest Intersection Ratio

■ Main Stem ■ High Way



Intersection Name	Congestion Index
5 Tongxin Road	11.9
6 Fengqi Road	11.9
7 Anfang Road	11.9
8 Wensan Road	12.1

Intersection Alarm

Intersection Name	Congestion Index	Alarm
5 Tianzhu Road-Machen L...	0.15	Alarm
6 Daguan Road-Huogong R...	0.11	Alarm
7 Baoshubai Road-Boshu R...	0	Normal
8 Hemu Road-Yabaihong-Da...	0	Normal

Social Governance and Public Security

Restricted Vehicle Count **8,920**

Bar-breaking Incident Count **132**

Alibaba Group



微医

腾讯 WeDoctor 官方客户端

看专家 用微医

iPhone 下载

Android 下载



寻医指导



患者问诊



预约挂号



微医讲堂



医言堂



健康币



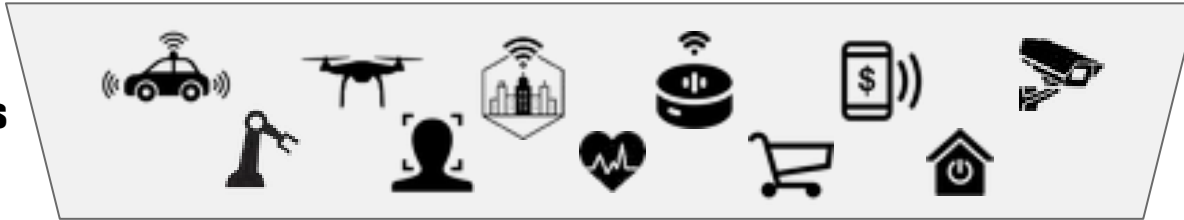
健康账户



优惠券

Application-Focused Chinese AI Ecosystem

Applications Layer



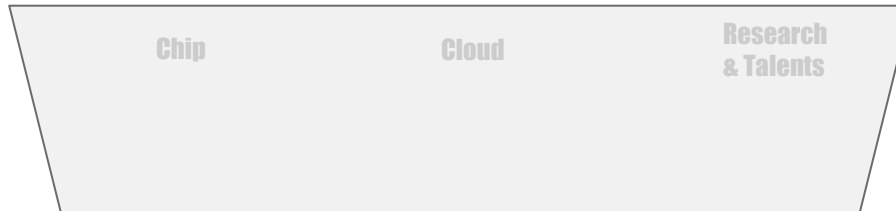
Autonomous driving; robotics; drones; facial recognition in security, retail, and banking; smart city, smart homes; AI in medical; virtual assistant

Technology Layer



- Algorithms, and platforms
- NLP & Voice Recognition
- Computer vision

Foundation Layer

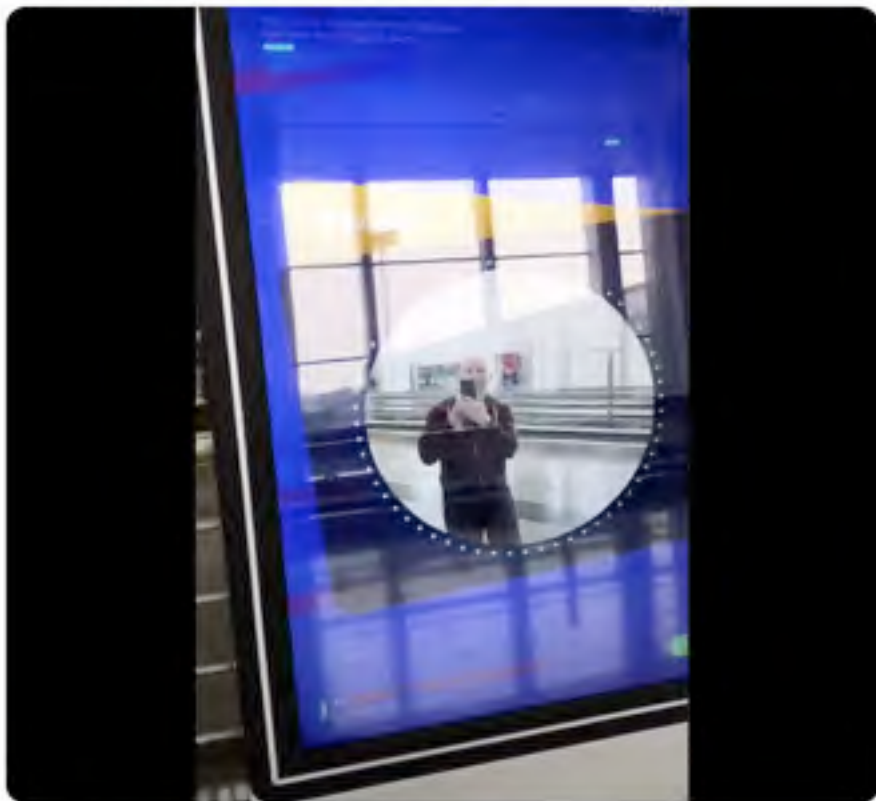


- Trying to catch up in chip design; market share
- Catching up in research quality



Matthew Brennan @mbrennanchina · Mar 24

Wow! China Airport face recognition systems to help you check your flight status and find the way to your gate. Note I did not input anything, it accurately identified my full flight information from my face!



2.1K 17K 31K



Matthew Brennan @mbrennanchina · Apr 4

Whoa! 'Withdrawal by Face' now an option on my Chinese bank's ATM cash machines. No card needed anymore just bring your face

[#facialRecognition](#) [#刷脸取款](#)



11

72

125





Matthew Brennan @mbrennanchina · Apr 9

"Ride the subway using only your face" China's first subway lines to use facial recognition ticketing systems are here. Article (Chinese):

iot.ofweek.com/2019-04/ART-13...



JD.com Fully Automated Warehouse in Shanghai



JD.com's Drone Delivery in Rural Areas



Concerns About Government Surveillance

QUARTZ

WATCH THIS MOVIE

AI experts are calling on Amazon to stop selling facial recognition to law enforcement

By Owen Sirota | April 3, 2019



Shoppers in a supermarket. Amazon sells tools to identify, powered in part by facial recognition.

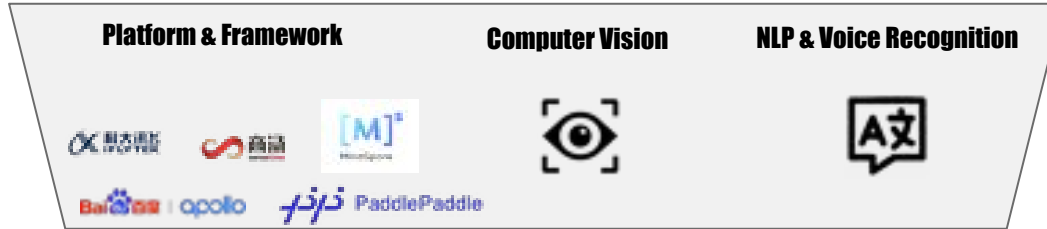
Application-Focused Chinese AI Ecosystem

Applications Layer



Autonomous driving; robotics; drones; facial recognition in security, retail, and banking; smart city, smart homes; AI in medical; virtual assistant

Technology Layer



- Algorithms, and platforms
- NLP & Voice Recognition
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- Catching up in research quality

[M]^S

MindSpore

MindSpore – Available NOW
All-scenario AI computing framework
全场景AI计算框架MindSpore正式发布

 HUAWEI



Application-Focused Chinese AI Ecosystem

Applications Layer



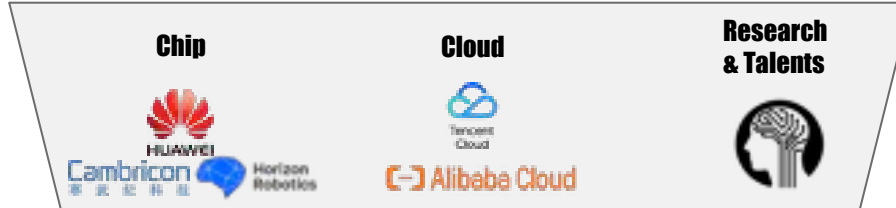
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Technology Layer



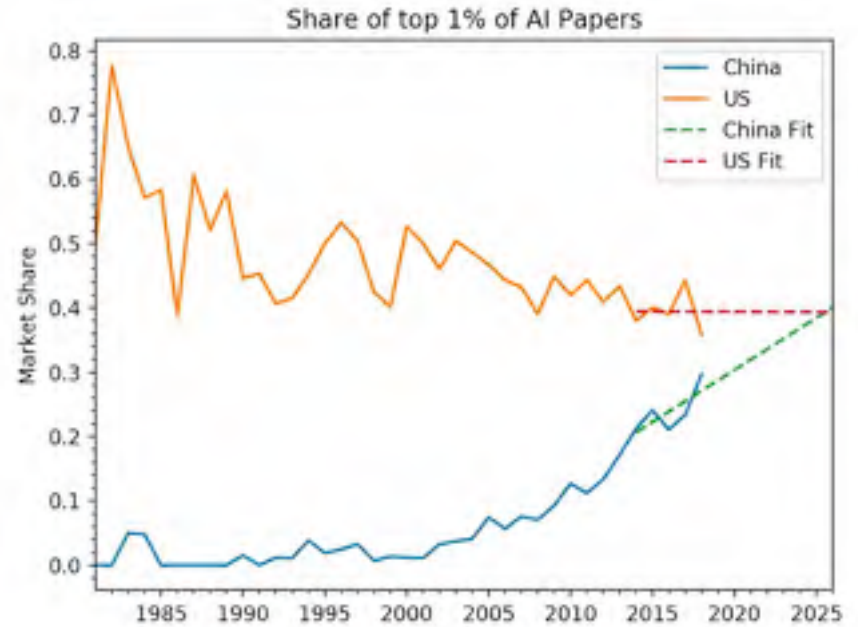
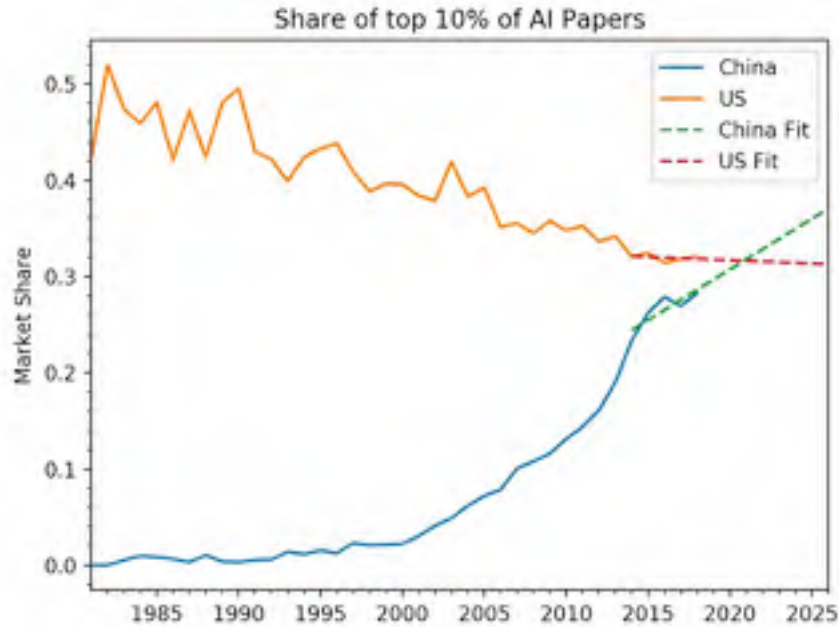
- Algorithms, and platforms
- NLP & Voice Recognition
- Computer vision

Foundation Layer



- Trying to catch up in chip design; market share
- Catching up in research quality

Most-Cited Papers: China vs. the U.S.

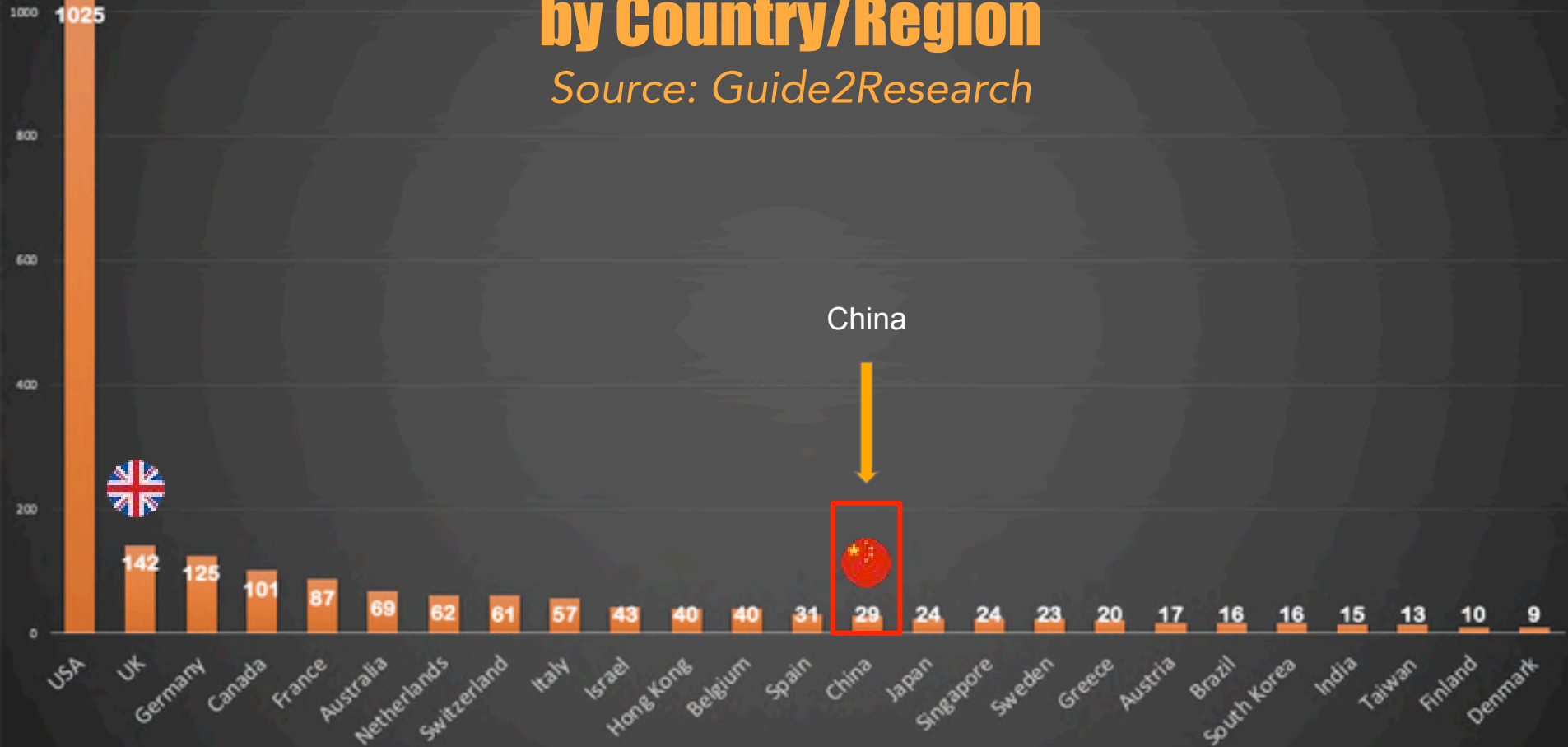


Source: Allen Institute for Artificial Intelligence



Top H-Index for Computer Science & Electronics by Country/Region

Source: Guide2Research





Top H-Index for Computer Science & Electronics by Country/Region

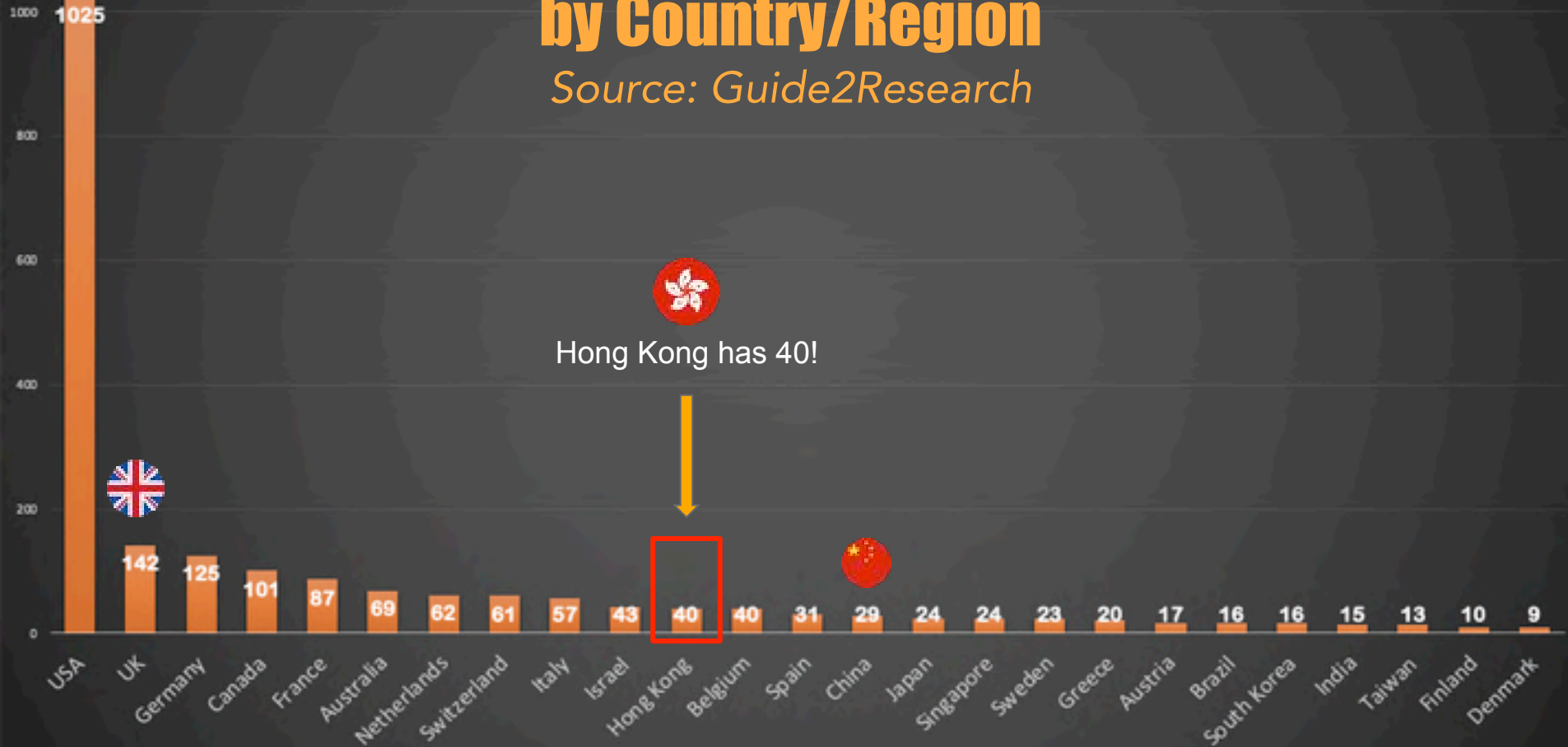
Source: Guide2Research





Top H-Index for Computer Science & Electronics by Country/Region

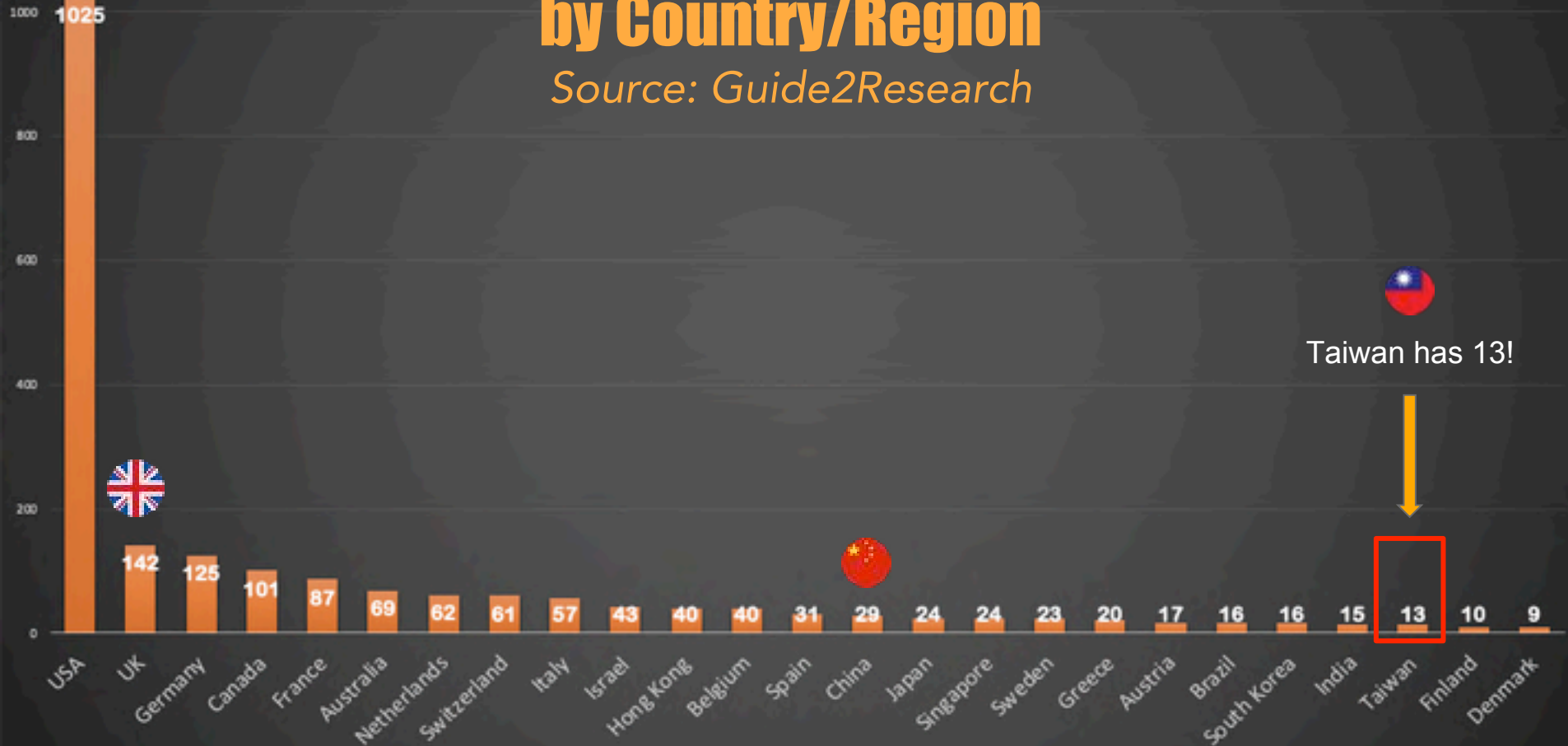
Source: Guide2Research



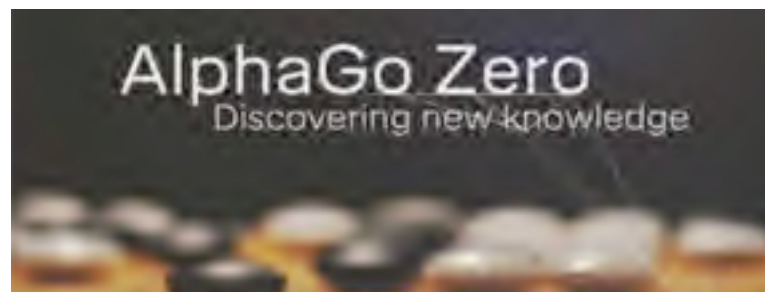


Top H-Index for Computer Science & Electronics by Country/Region

Source: Guide2Research



Microsoft®
Research
微软亚洲研究院



Where Are the AI Startups?

Unicorns: over \$2B



China: 5



U.S.: 5



U.K.: 1

Top 100 AI Startups



U.S.: 70+



U.K.: 6



China.: 6

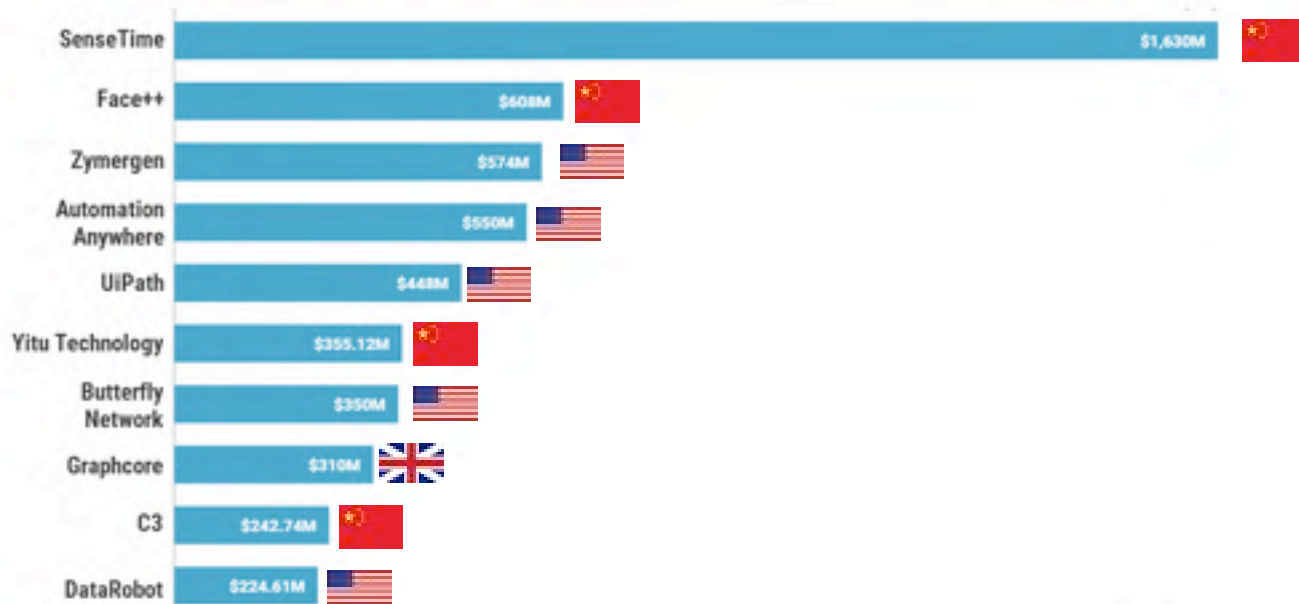


Israel.: 6



2019 AI 100: Most well-funded companies

Based on total equity funding



Source: [cbinsights.com](https://www.cbinsights.com)

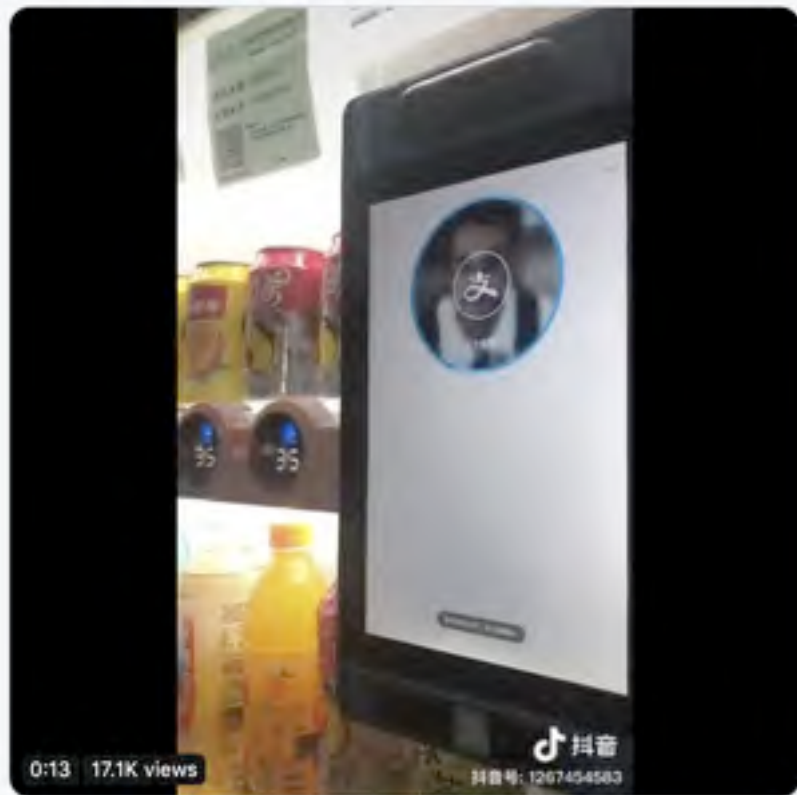
AI Need to Be Inclusive



Matthew Brennan @mbrennanchina · Jul 30

Non-Chinese are completely blocked from using China's new facial recognition payment systems (see video)

Error message Z6100: This account's real-name verification is linked to a non-mainland China ID



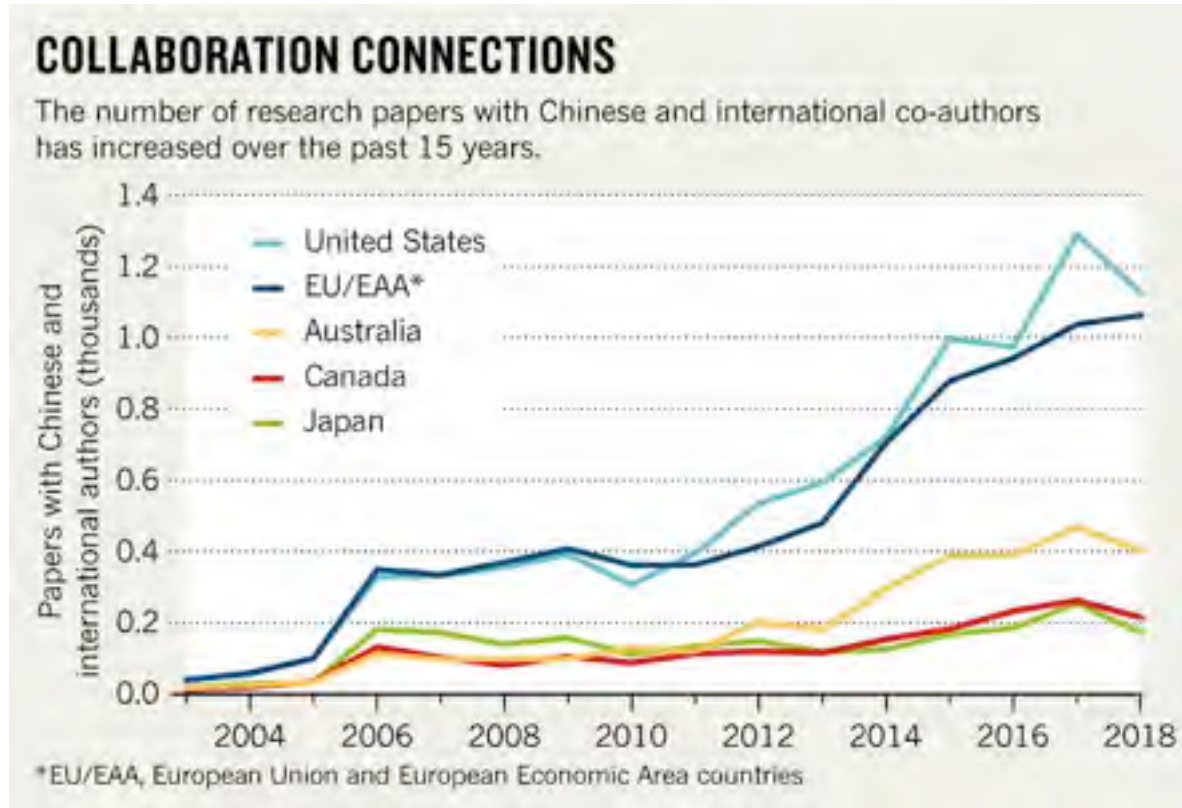
29

102

233



Chinese Researchers Collaborating Internationally



The Partnership on AI



PARTNERSHIP ON AI

ABOUT

PARTNERS

RESOURCES

CAREERS

Baidu

FOR-PROFIT

Baidu, Inc. is the leading Chinese language Internet search provider. Baidu's mission is to make a complex world simpler through technology. After years of commercial exploration, Baidu has formed a comprehensive AI ecosystem. Baidu is now at the forefront of the AI industry in terms of fundamental technological capability, speed of productization and commercialization, and "open" strategy.

baidu.com/

The Baidu logo, featuring the word 'Baidu' in blue and red, with the Chinese characters '百度' in red to the right. The logo is centered within a white circular graphic that has a soft shadow on the purple background.

There is no trust without “us”.

The Government Does Not Equal to the People



≠



Whether You Learn Chinese or Not

Please Consult Before Getting a Chinese Tattoo



Thank you!

Get in touch: @sunsiren

Rate today's session

Cyberconflict: A new era of war, sabotage, and fear See passes & pricing

David Sanger (The New York Times)
9:55am - 10:10am Wednesday, March 27, 2019
Location: Ballroom

[Add to your Schedule](#)
[Add Comment or Question](#)

[Rate This Session](#)

We're living in a new era of constant sabotage, misinformation, and fear, in which everyone is a target, and you're often the collateral damage in a growing conflict among states. From crippling infrastructure to sowing discord and doubt, cyber is now the weapon of choice for democracies, dictators, and terrorists.

David Sanger explains how the rise of cyberweapons has transformed geopolitics like nothing since the invention of the atomic bomb. Moving from the White House Situation Room to the dens of Chinese, Russian, North Korean, and Iranian hackers to the boardrooms of Silicon Valley, David reveals a world coming face-to-face with the perils of technological revolution—a conflict that the United States helped start when it began using cyberweapons against Iranian nuclear plants and North Korean missile launches. But now we find ourselves in a conflict we're uncertain how to control, as our adversaries exploit vulnerabilities in our hyperconnected nation and we struggle to figure out how to deter these complex, short-of-war attacks.

David Sanger
The New York Times

David E. Sanger is the national security correspondent for the New York Times as well as a national security and political contributor for CNN and a frequent guest on CBS This Morning, Face the Nation, and many PBS shows.

Session page on conference website

✓ Attending Notes Remove

Cyberconflict: A new era of war, sabotage, and fear

9:55 AM - 10:10 AM, Wed, Mar 27, 2019

Speakers

David Sanger
National Security Correspondent
The New York Times

📍 Ballroom

Keynotes

David Sanger explains how the rise of cyberweapons has transformed geopolitics like nothing since the invention of the atomic bomb. From crippling infrastructure to sowing discord and doubt, cyber is now the weapon of choice for democracies, dictators, and terrorists.

[SESSION EVALUATION](#)

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