Artificial Intelligence in Finance

at

Hong Kong University of Science and Technology

Perspectives on the Global Markets

- US (and global) markets picking up, but we are by no means out of the woods yet
 - Is "Unlimited QE" possible? Will QE become ineffective someday?
- Implications of the Luckin Coffee scandal
- IPO activity around the world and what it means for us
- COVID-19 and the emergence of the "New" New Economy

	O IPO markets of 2019* Stock Exchange	Funds raised (US\$ billion)		Number of IPOs Issues
1	Hong Kong mainboard		40	144
2	Nasdaq		27.5	133
3	Saudi Stock Exchange	2	5.6	1
4	New York Stock Exchange	23.4		38
5	Shanghai Stock Exchange	13.3		50
6	Shanghai Star Market	9.5		71
7	London Stock Exchange	7		17
8	Shenzhen Small & Medium Enterprise	4.6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	25
9	Shenzhen ChiNext	4.2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	52
10	Frankfurt Stock Exchange	4.2		5
Source:	Refinitiv	*Until December 26, 2019		SCMP

Top 10 IPOs worldwide in 2019*

Rank	Company	Funds raised (USS	billion)		Stock exchange
1	Saudi Aramco			25.6	Saudi Stock Exchange
2	Alibaba Group Holding		12.9		Hong Kong main board
3	Uber Technologies		3.1		New York Stock Exchange
4	Budweiser Brewing Co APAC	5.7			Hong Kong main board
5	Postal Saving Bank of China	4.7			Shanghai Stock Exchange
6	Avantor	3.3			New York Stock Exchange
7	Lyft	2.6			Nasdaq
8	Nexi	2.3			Milan Stock Exchange
9	XP	2.3			Nasdaq
10	TeamViewer	2,2			Frankfurt Stock Exchange
Source:	Refinitiv	*Data as o	ofDecember 26, 2019		SCMP

Top 10 IPOs in the history of Hong Kong stock market

Ranking	Company	Year	IPO fund raised (HK\$ billion)		
1	AIA	2010	159.1		
2	Industrial and Commercial Bank of China	2006	125		
3	Alibaba	2019	101.2		
4	Agriculture Bank of China	2010	93.5		
5	Bank of China	2006	86.7		
6	China Construction Bank Corp	2005	71.6		
7	Postal Savings Bank	2016	59.2		
8	China Tower Corp	2018	58.8		
9	China Unicom (Hong Kong)	2010	43.6		
10	Xiaomi Corporation	2018	42.6		
Source: HKEX					

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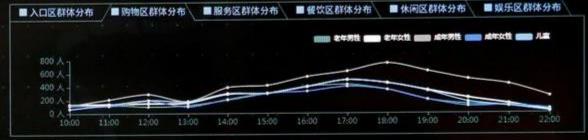




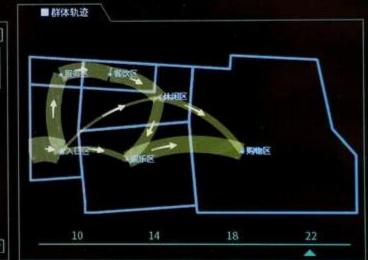




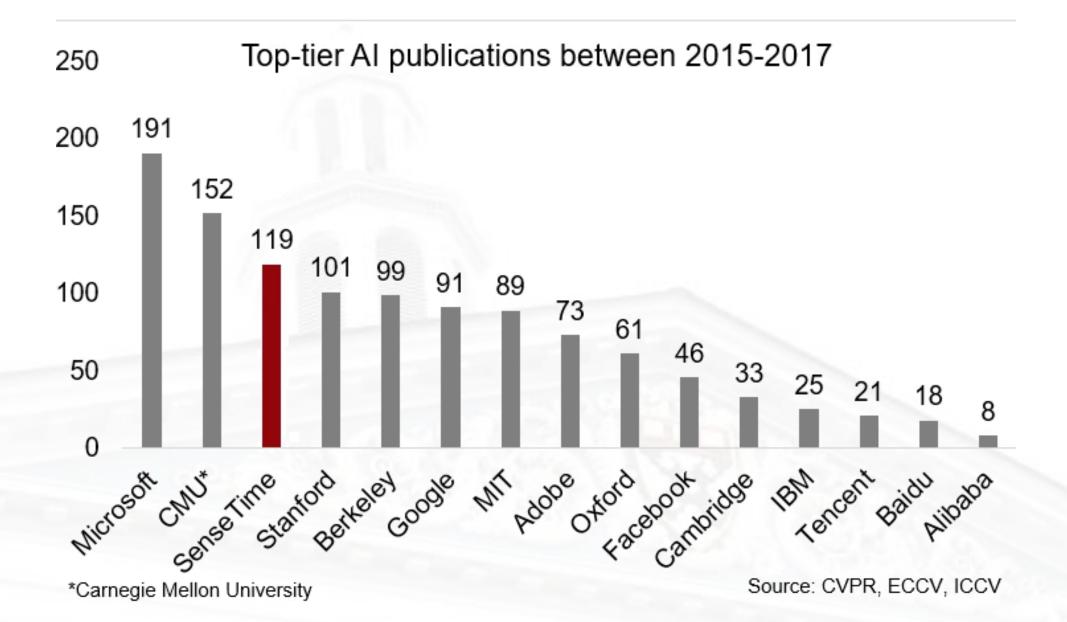
2016-10-02	■ 2016-10-01 ■ 2016-09-30		6-09-30	2016-09-29	2016-09	-28	■ 更早	
■数据统计								
	全景	入口区	购物区	服务区	餐饮区	休闲区	娱乐区	
今日累计人数	3720	3720	312	484	364	2237	323	
平均停留时长	105分钟	10分钟	23分钟	30分钟	40分钟	20分钟	10分钟	





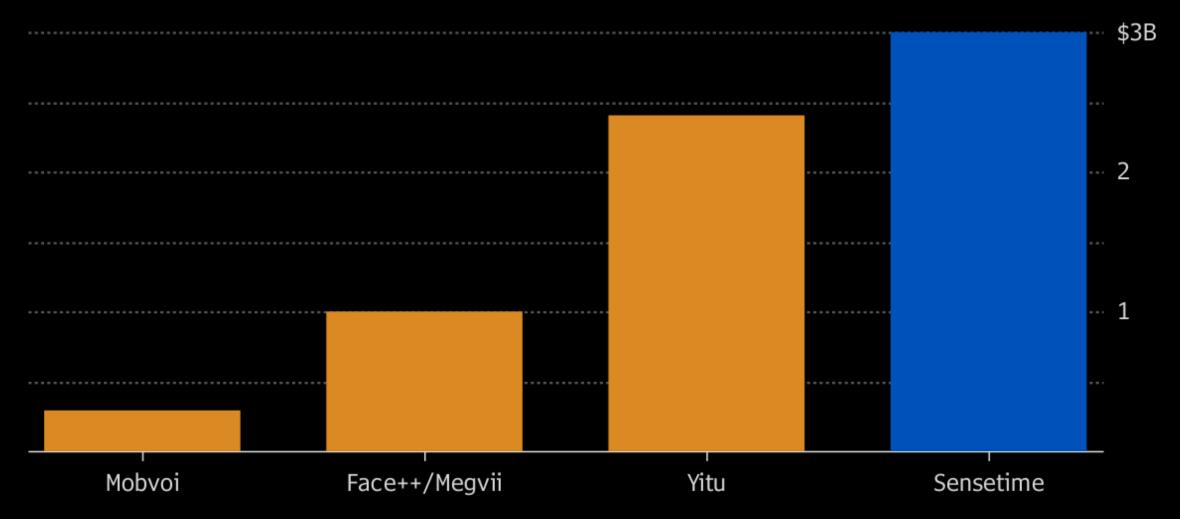






AI Supremacy

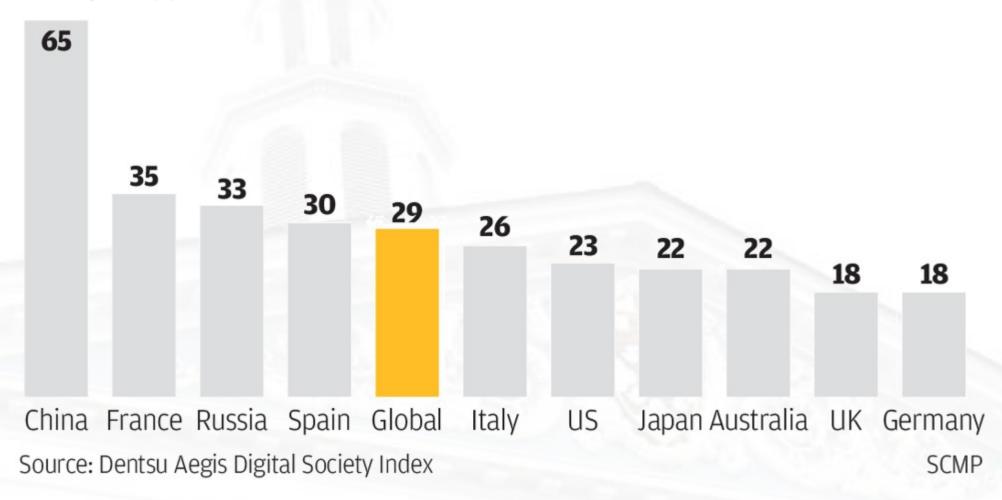
China houses some of the world's largest privately backed artificial intelligence startups



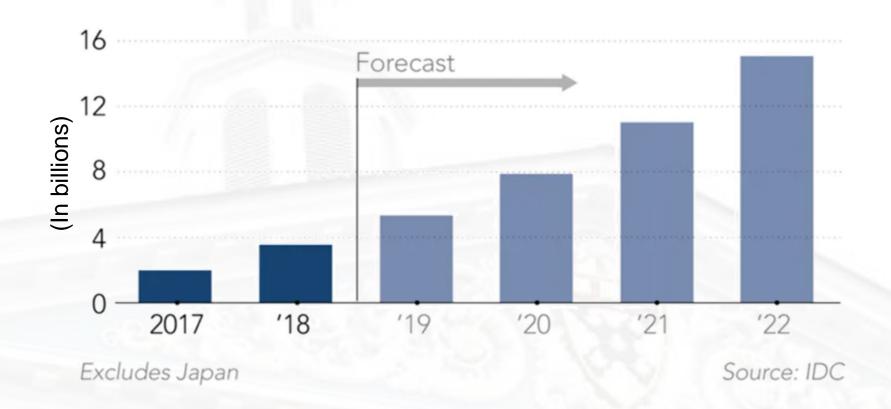
Note: Mobvoi's valuation is based on a 2015 investment

Source: CB Insights, Bloomberg

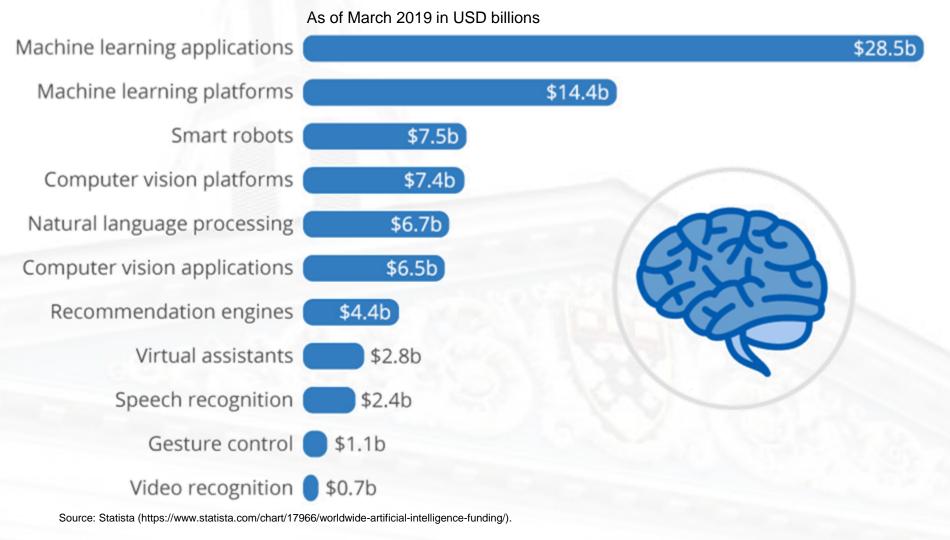
The percentage of people around the world who think AI will create more job opportunities



Al expenditure surges in Asia-Pacific



Investments in machine learning applications



China National Al Development Plan

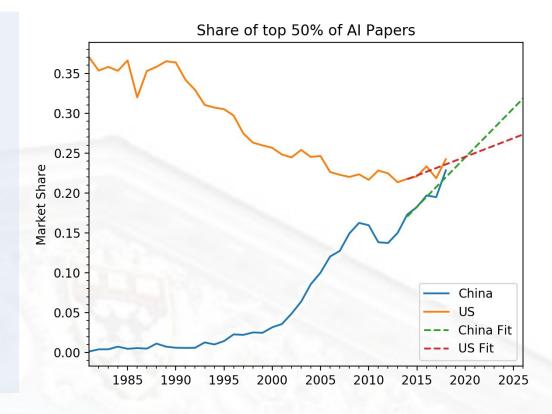
In July 2017, the Chinese government announced its **National Al Development Plan**, which included building up a highly competitive Al industry that would be worth RMB 1 trillion (USD 150.7 billion) by 2030.

According to the State Council, the broad-base guidelines for China's AI development is:

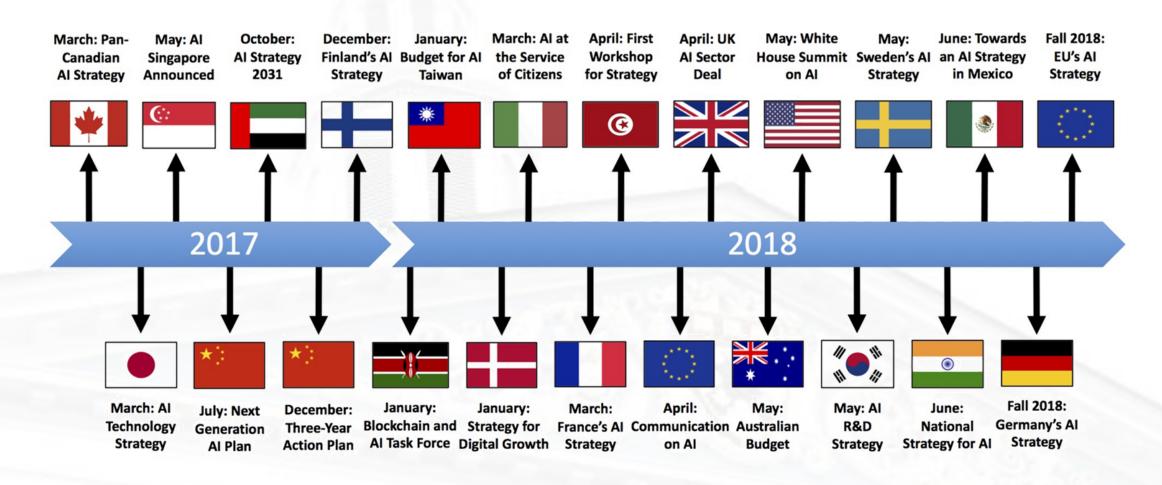
- By 2020, catch up to global leaders in Al technology; Al tech adoption to become a major driver for economic growth
- By 2025, achieve major breakthroughs in fundamental research of AI, have worldleading technology in certain areas. AI to become the key driver for industry reforms
- By 2030, become a world leading power in AI on both fundamental research and technology application front. AI to build intelligent economy/society that lay out the foundation for China to become an economic leader

China AI research capability rivaling the US

- In 2017, China announced plans to become the world leader in Al by 2030
- An analysis of over 2 million academic Al papers published through the end of 2018 shows that China has already surpassed the US in the number of published Al papers
- If current trends continue, China is poised to overtake the US in the most-cited 50% of papers in 2019, the most-cited 10% of papers in 2020, and 1% of most-cited papers by 2025¹

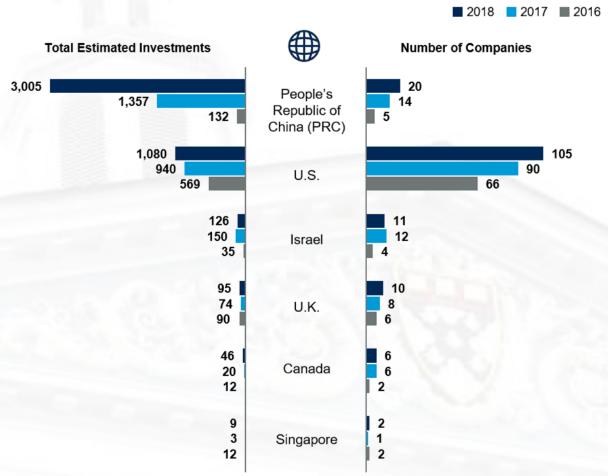


National Al Policy Frameworks



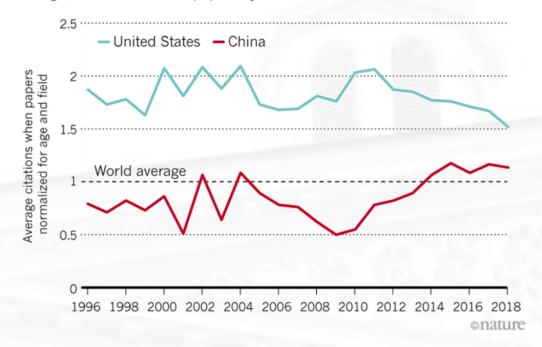
Winner takes all in China computer vision market

Computer Vision Technology Investment Trends by Geography, Total Estimated Investment (in Millions of Dollars), and Number of Companies

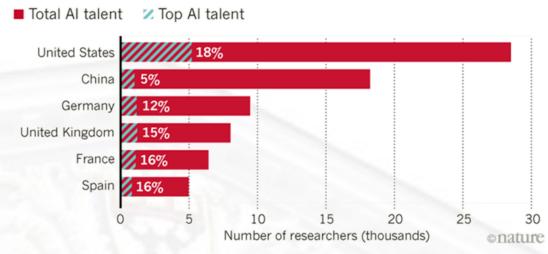


A global talent war on Al

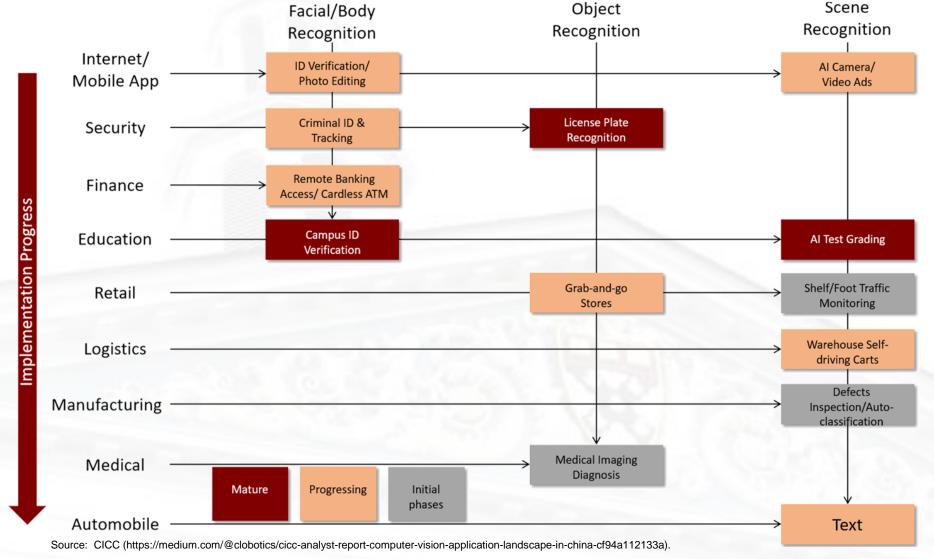
Average citations for AI papers by authors in China are above the world average, but lower than for papers by US authors.



China has the second-largest number of researchers who have published Al papers or been issued patents in the past decade. But the proportion of those considered to be in the top 10% of the field is smaller than in other Al-leading nations.

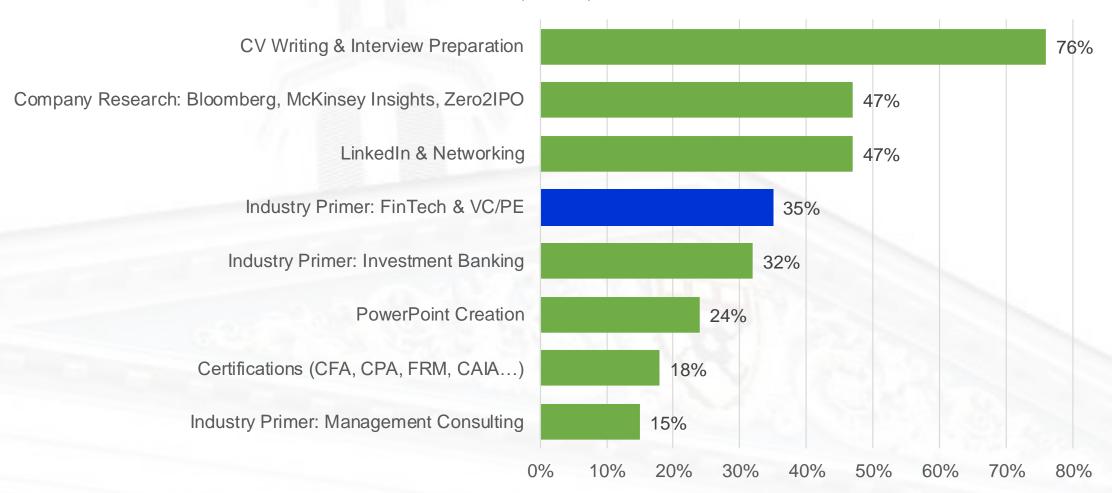


Landscape of Computer Vision Applications in China

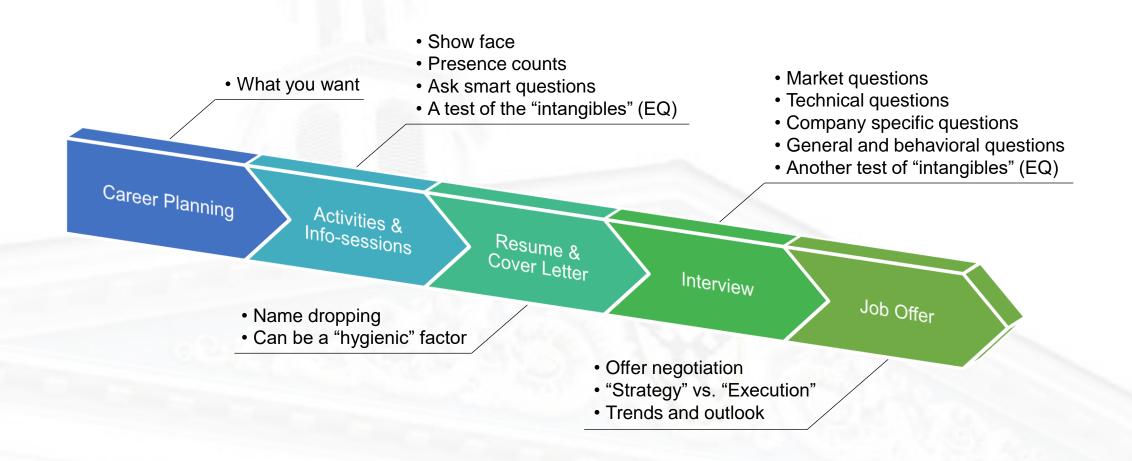


Beyond the Classroom

Topics of Interest (n = 34)



Career Roadmap & CV Clinic



Investment Banking Essentials

Academics GPA Classes Exchange

Internships



Morgan Stanley J.P.Morgan





Technicals

- Financial Statement Analysis
- Macroeconomics
- Valuation
- Corporate Finance
- Financial Mathematics