

Programme Overview

B.Eng. Information Engineering

Prof. Wing C. Lau



Department of Information Engineering
The Chinese University of Hong Kong



What was the Mission-Statement of Microsoft ?

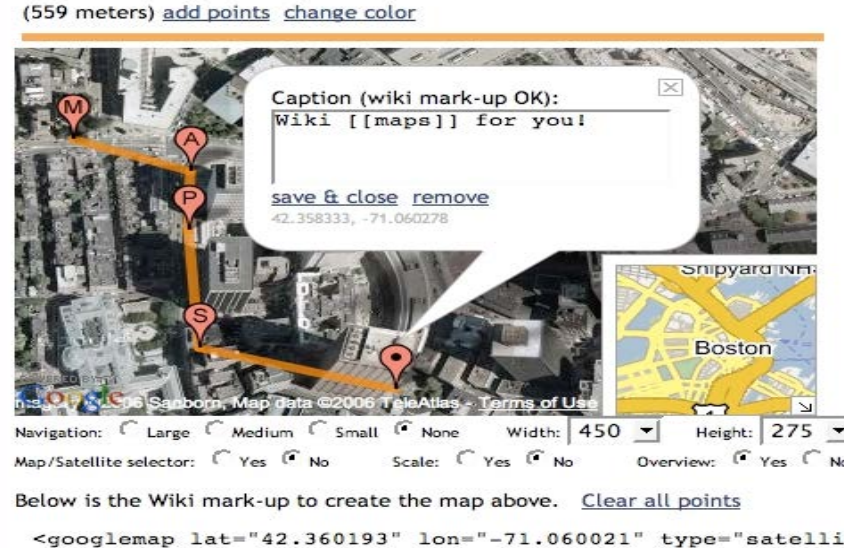


What **was** the Mission-Statement of **Microsoft** ?

A Computer on Every Desk and in Every Home

What is the Mission-Statement of Google™ ?

What are these Services all about ?

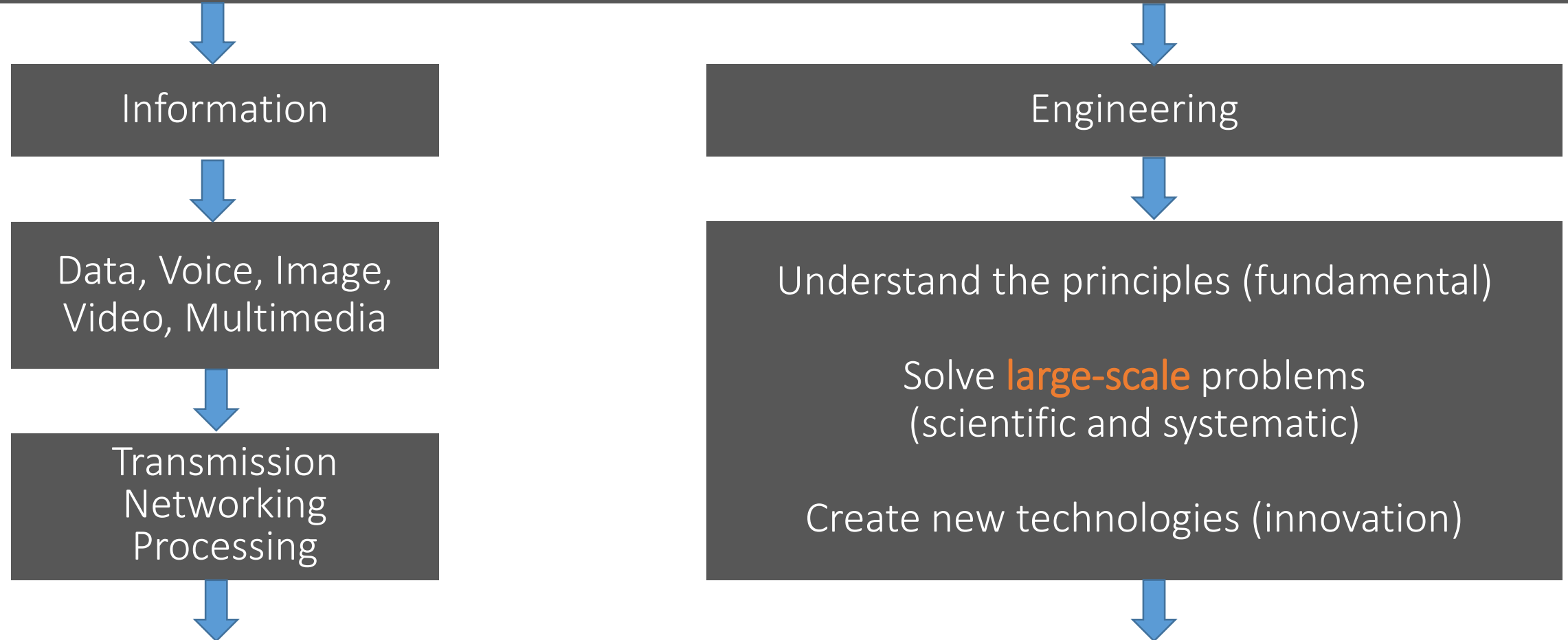


What is the Mission-Statement of  ?

To organize the World's Information and
make it Universally Accessible and Useful.

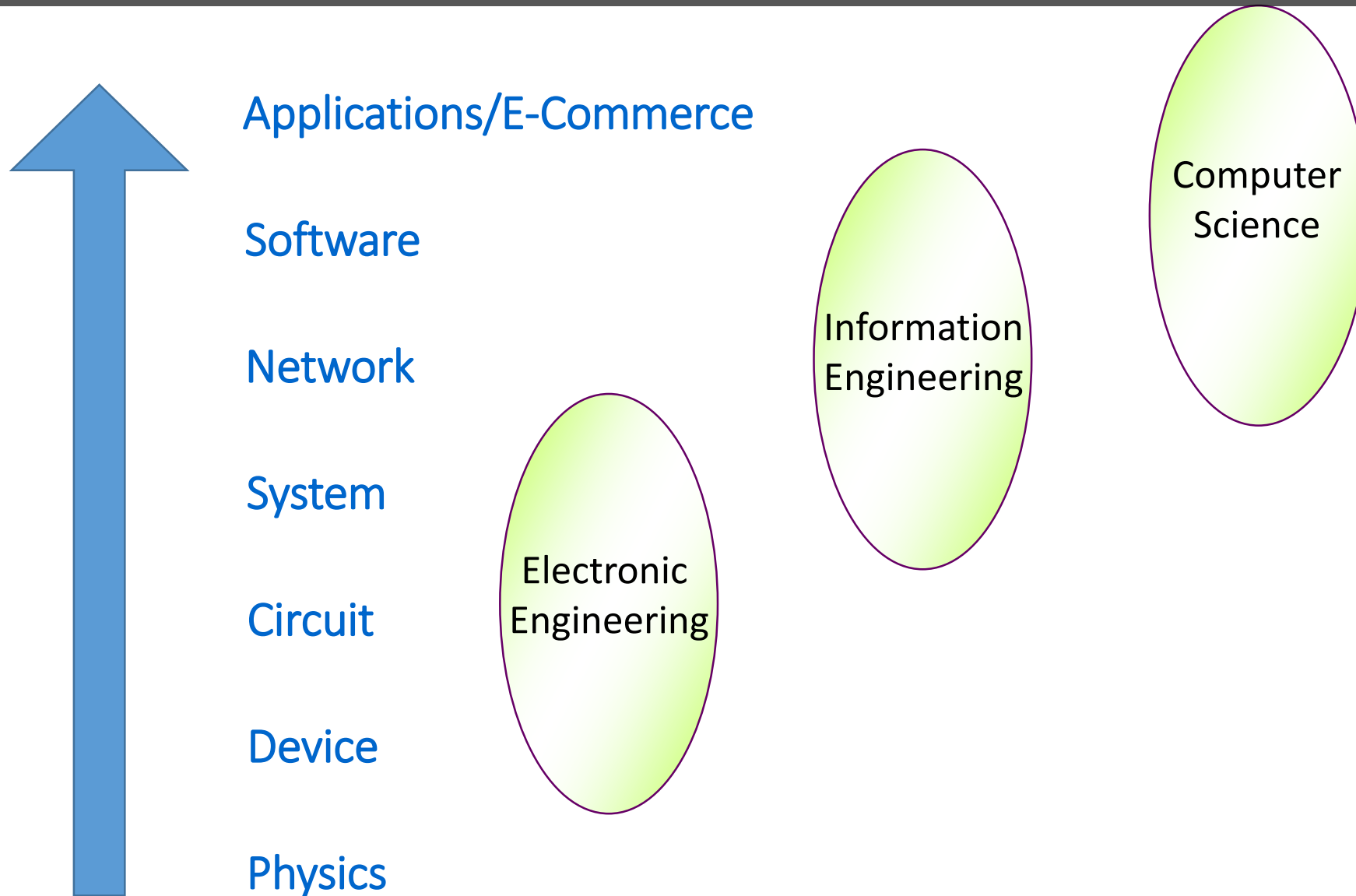
Information Engineering

The Generation, Distribution, Analysis and Use of Information in Engineering Systems



To train engineering leaders who can **manage** and **create** new information technologies to serve all disciplines.

What is Information Engineering?



Information Engineering Programme

Core Subjects

Mathematics

Computer Programming &
Software Engineering

Basic Circuits & Digital Systems

Microcontrollers & Embedded Systems

Signals & Systems

Principles of Communication Systems

Computer Networks

Streams of Specialization

Big Data: Systems & Application

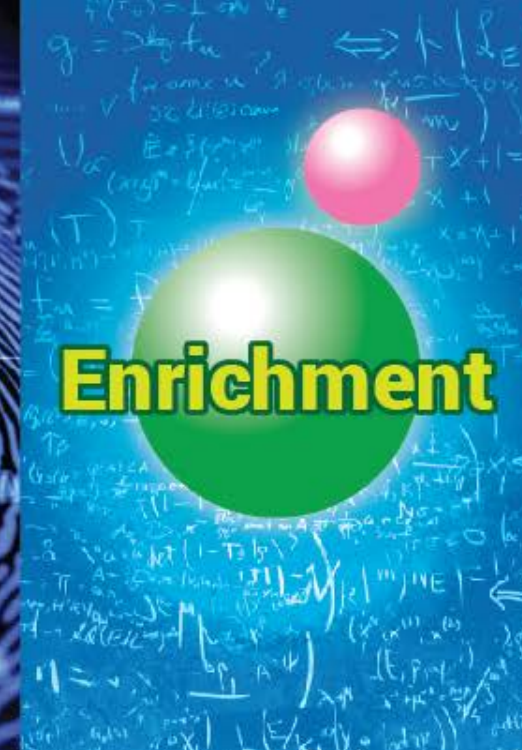
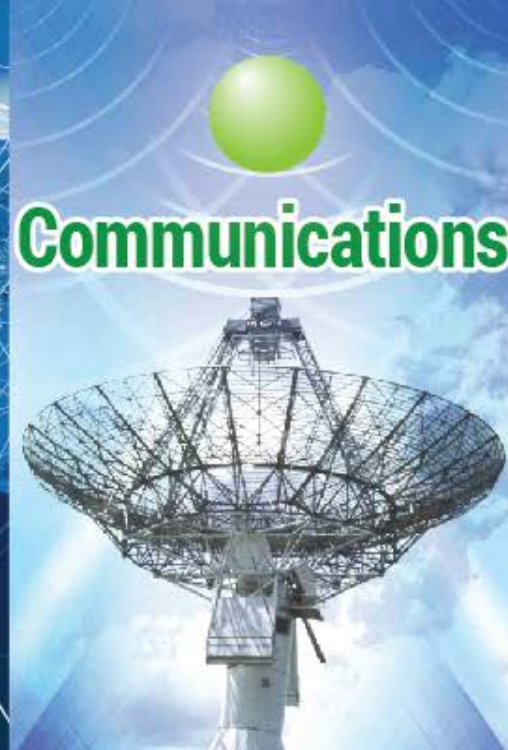
Communications

Internet Engineering

Cyber Security

Enrichment

Final Year Project



- Web-scale Information Analytics
- Programming Big Data Systems
- Internet of Things
- Social Media and Human Information Interaction
- Cloud Computing
- Machine Learning

- Networking Protocols and Systems
- Network Economics
- Network Software Design and Programming
- Mobile/Web Applications
- Mobile Networking
- Building Scalable Internet Services

- Digital Communications
- Signal Processing
- Optical Communications
- Wireless Communications
- Broadband Switching Systems
- Lightwave System Technologies
- Internet of Things

- Intro to Cyber Security
- Applied Cryptography
- Web Security & Programming
- Secure Software Engineering
- Digital Forensics
- Security & Privacy in Cyber Systems

- Multimedia Coding & Processing
- Stochastic Processes
- Channel Coding & Modulation
- Simulation & Statistical Analysis
- Information Theory
- Network Coding
- Design & Analysis of Algorithms

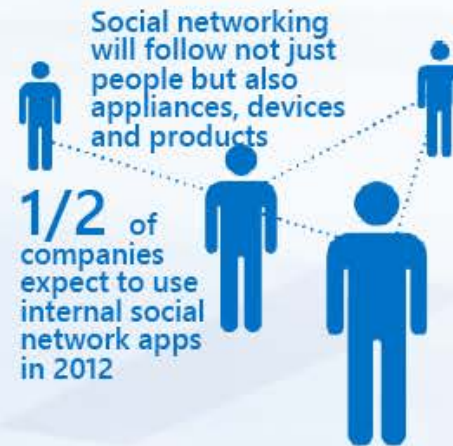
Four Mega Trends which will Dominate the Next Decade



91% of organizations expect to spend on mobile devices in 2012

In 2012, mobile devices will outship PCs by more than

2:1 and generate more revenue than PCs for the first time



>80% of new apps in 2012 will be distributed/ deployed on clouds



34% of CIOs say technology as a service (cloud) will have the most profound effect on the CIO role in the future

49% of CIOs rank BI as the top project priority for 2012

Total digital content will grow **48%** from 2011

2/3 of mobile apps developed in 2012 will integrate with analytics offerings

2.7 zettabytes in 2012

32% of businesses are likely to invest in BI and analytics in 2012

Major Requirement including Faculty Package (75 units)

Wide Range of Elective Courses

Year
4

Final Year Project I and Final Year Project II
plus major electives

Specialized

Year
3

Microcontrollers & Embedded Systems, Computer Networks

Big Data

Web-scale Information Analytics
Programming Big Data Systems · Internet of Things
Social Media & Human Info Interaction
Image & Video Processing
Machine Learning · Cloud Computing

Year
2

Even more Flexibility !
*5 out of the 17 units of
IE Major Elective Requirement
can be fulfilled by
other CUHK Engineering Departments'
courses at 3000 and above-level*

Internet
Engineering

Networking Protocols & Systems
Network Economics
Network Software Design & Programming
Mobile Networking · Mobile/Web Applications
Building Scalable Internet Services

Year
1

Faculty Package:
Intro to Engineering Design
Problem Solving by Programming



Engineering Physics
Calculus for Engineers
Linear Algebra & Vector Calculus
Intro to Data Science

Fundamental

Cyber Security

Intro to Cyber Security · Applied Cryptography
Web Security & Programming · Digital Forensics
Secure Software Engineering
Security and Privacy in Cyber Systems

Communications

Digital Communications · Signal Processing
Optical communications · Wireless Communications
Broadband Switching Systems
Lightwave System Technologies

Enrichment

Multimedia Coding & Processing
Stochastic Processes · Channel Coding & Modulation
Simulation and Statistical Analysis
Information Theory · Network Coding
Design & Analytics of Algorithms

Plus University Core Requirement, including English Language, Chinese Language, General Education, Physical Education & IT Training.

People of Information Engineering



Our World-Renowned Professors

21 Full-time Professors ; **6 IEEE Fellows**

Graduated from: MIT, Stanford, Berkeley, Caltech, Cornell, Harvard, Columbia, ETH, Northwestern, UT Austin, Purdue, CUHK...

Many have extensive Industrial Experience with Technology Powerhouses world-wide

•Bell Labs, Microsoft Research, HP Labs, Qualcomm, ...

Authors of Seminal, High-Impact Research ; Prize Paper Awards from Top venues, including:

- USENIX **Security / Facebook Internet Defense Prize** 2018
- **Top 3 Google Scholar Classic Papers** in **Computer Networks & Wireless Communications** 2016
- IEEE Eric E. Sumner Award 2016 (for contributions in **Network Coding**)
- IEEE **Information Theory** Society Paper Award (**Twice !!** 2016 and 2005)
- IEEE **Infocom** Test-of-Time Paper Award 2015
- **AAAI** Outstanding Student Paper Award 2015
- ACM **Multimedia** Conference, Best Paper Award 2012
- IEEE **Marconi Prize** Paper Award in **Wireless Communications** 2011
- **Neural Information Processing Systems**, Best Student Paper Award 2010
- IEEE **Computer Vision & Pattern Recognition** Conference, Best Paper Award 2009
- IEEE Transactions on **Multimedia** Prize Paper Award 2009



Our World-Renowned Professors

Hold Key Patents on Innovations in various fields ; Successful Technology Transfer, e.g.

- **SenseTime** - The most valuable AI Start-up in the World
- Image-Search for **Microsoft Bing and Google**
- X-Power (Commercial Adaptive Streaming Services) of **Smartone HK**

Awarded Area of Excellence by HKSAR Gov.:

- **Information Technology**
- **Network Coding**

with total funding exceeding HK\$100Million

Strong Ties with Local and Overseas Industries

- Set up the 1st Internet connection linking Hong Kong to the World
- Established Hong Kong SchoolNet to bring Internet to Primary and Secondary schools in HK
- Science Advisor of HK Innovation and Technology Commission (香港創新科技署)
- Former CEO and CTO of HK ASTRI (香港應用科技研究院).



Key Research Areas

- Information Theory, Network Coding
- Wireless Communication and Networking
- Optical Communication and Networks
- Network Economics, Internet and Applications
- Multimedia Processing
- Internet of Things, Cloud Computing, Social Networks
- Energy System, Power Grid Modernization and Optimization
- Cryptography, Security and Privacy
- Big Data Analytics, Deep Learning and AI



湯森路透社(Thomson Reuters)發佈《開放未來：2015年全球創新現況》

Most Impactful Research Institutions In Telecomms (2004 - 2014)

Institution	Country	# of Papers (WoS)	Relative Citation Impact*
Rice University	U.S.	323	4.31
University of California Berkeley	U.S.	800	3.76
State University of New York (SUNY)	U.S.	341	2.89
Swiss Federal Institute of Technology	Switzerland	723	2.64
University of Texas, Austin	U.S.	1070	2.58
Carnegie Mellon University	U.S.	763	2.55
Princeton University	U.S.	641	2.47
Chinese University of Hong Kong	Hong Kong	959	2.45
New York University	U.S.	421	2.43
University of Washington, Seattle	U.S.	562	2.42

Source: Thomson Reuters Web of Science

* Citation impact normalized against average for field and year of publication ($n = 1.00$)



Innovative Network Coding Techniques Revolutionize Wireless Communications

Named by Thomson Reuters as one of the 10 research institutions in the world with the most impact on telecommunications

Deep Learning

With massive amounts of computational power, machines can now recognize objects and translate speech in real time. Artificial intelligence is finally getting smart.



Google DeepMind



AlphaGo

Top Ten AI/ Deep Learning Pioneers in the World

- Announced at Global Technology Conference 2016 by Nvidia (the world leading GPU and AI platform production company with 70% of GPU world market).

Berkeley
UNIVERSITY OF CALIFORNIA



Trevor Darrel

Carnegie Mellon University



Russ Salakhutdinov


香港中文大學
The Chinese University of Hong Kong



Xiaoou Sean Tang

 **NYU**



Yann Lecun

Stanford University



Fei-Fei Li

 **Massachusetts Institute of Technology**



Tomaso Poggio

Université de Montréal



Yoshua Bengio

 **UNIVERSITY OF OXFORD**



Nando de Freitas

 **UNIVERSITY OF TORONTO**



Geoffrey E. Hinton

USI/SUPSI IDSIA



Jurgen Schmidhuber

Our Face Technology

[「認人」準過肉眼 中大系統冠全球 \(文匯報\)](#)
[看圖20萬張特訓 勝面書睇5億張 \(文匯報\)](#)
[中大搜集20萬名人照研發 全球最勁 人面識別系統 準確率99% \(蘋果日報\)](#)
[中大認人系統準確度冠全球 \(大公報\)](#)
[中大「人面識別系統」準繩度冠全球 \(東方日報\)](#)
[中大研發99%準確認人系統 \(太陽報\)](#)
[中大人面識別系統準確冠全球 \(星島日報\)](#)
[人面識別系統全球最準 \(都市日報\)](#)

Science News
Nature News
Discover
The Register
Tech Xplore
Technology
Rootnotion
I Programmer



Wednesday, April 23, 2014 - 4:45pm

Face Recognition Algorithm Finally Beats Humans

For computers, distinguishing one face from another is tough. Fluctuating factors like glasses, beards, makeup, hairstyles, and low lighting can easily trip up the system whereas people can see right through all of that. Until now, humans have outperformed face recognition systems when it comes to comparing two images and determining if they are the same person. However, according to the Physics arXiv blog, a new algorithm called GaussianFace can beat humans. While people can distinguish faces with 97.53% accuracy, the algorithm has reached 98.52%. The system could make accessing smart phones or logging on to computer games with face verification possible.

中大搜集20萬名人照研發 全球最勁 人面識別系統 準確率99%

40,255

深度學習模型識別 (Deep Learning) 資料來源: 中大網頁

專家利用以上步驟得出數據，增強人面識別的準確性，成功率為99.15%。

預測人群流動方向

透過系統分析，找到不同人群的流動方向，以預測人流衝突的機會。

Facebook 35, Google+ 1, Twitter Tweet 0, 35

【本報訊】facebook有自動標籤相中人的功能，中大研發更先進的自動人面識別系統，讓搜尋更準確，達99.15%，稱是全球最高水平，料數年後可商業應用。中大信息工程學系教授湯曉鷗及電子工程學系教授王曉剛的研究團隊，今年在自動人面識別系統研究有突破。王曉剛稱，10年前與湯曉鷗研究人面識別系統，當時只是利用簡單的參數建立計算模型，準確度不高，到2012年團隊研究深度學習模型 (Deep Learning)，模擬人類的神經網絡，採取更多數據。

指超越肉眼識別準確度

今年上半年，facebook收集了700萬張用戶圖片，人像自動配對準確度達97%；近日facebook再更新，搜集5億張用戶圖片，準確度提升至98%；中大的專家在2011年，於網上搜集20萬名人圖片作數據庫，配合改良的計算方法，準確度達99.15%，目前是全球之冠。

0 SHARE



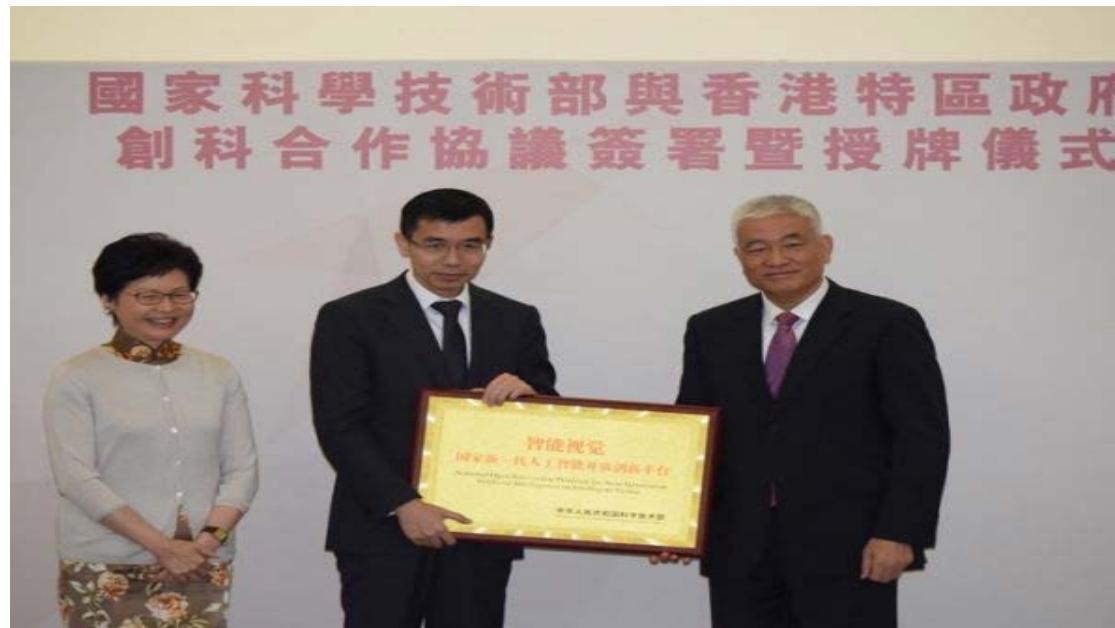
NOW READING
World's most valuable AI start-up SenseTime raise

World's most valuable AI start-up SenseTime raises US\$620 million to spearhead China tech ambitions

China has made the development of artificial intelligence and other advanced technologies a core pillar of its efforts to reform its economy and secure leadership in what has been dubbed a fourth industrial revolution

PUBLISHED : Thursday, 31 May, 2018, 9:26am
UPDATED : Tuesday, 03 July, 2018, 9:07pm

COMMENT: 1



MIT and SenseTime announce effort to advance artificial intelligence research
Alliance will be part of new MIT Intelligence Quest.

Resource Development
February 28, 2018



MIT and SenseTime today announced that SenseTime, a

Network/ System Security & Privacy

Android 漏洞 語音助理或洩私隱
黑客可詢位置竊聽 涉全球5億用戶

手機保安錦囊

- 1 定期設定螢幕鎖碼
- 2 避免安裝來源不明的應用程式，建議只於Google Play Store下載
- 3 避免瀏覽可疑網站
- 4 如情況許可，在睡覺時關閉手機模式或關掉數據及無線網絡
- 5 更新及最新的系統作業系統
- 6 留意可疑的通訊紀錄或不尋常的CPU用量

社交平台保安錦囊

- 1 不要隨意授權第三方應用程式存取個人資料
- 2 使用不同手機及網頁應用程式時，不要「萬方方便」，使用同一個社交平台帳戶登入，盡量保持獨立
- 3 留意個人資料及圖片的權限，勿隨意設定為「公開」

資料來源：綜合受訪者

亞洲首個團隊 中大奪fb防禦獎

喺互聯網世界，要搵任何資訊都相當方便，但變相亦陷阱處處嘍！就好似「單點式登入」咁，就有唔少安全漏洞，包括駭客可利用漏洞直接控制受害帳號或偷睇你喺網上做緊咩嘢呀！

不過，中大信息工程學系團隊就成功開發自動測試網絡登錄漏洞嘅工具“S3Kvetter”，5秒鐘就可以檢查程式源碼嘅邏

輯及安全漏洞。呢項發明仲得到Facebook頒發互聯網防禦獎第三名，係首個奪獎嘅亞洲團隊呀，簡直係香港爭光！

要保护好個人資料

中大信息工程學系副教授劉永昌就託小記提提大家，要衡量使用單點式登入嘅便利性同安全隱憂，如果涉及重要個人資料，就唔好用單點式登入喇！



劉永昌 (右二)

推荐 热点 视频 图片 段子 社会 娱乐 科技 汽车 体育 财经 军事 国际 时尚 旅游 更多

今日头条 首页 / 科技 / 正文

599

支付宝关闭一个功能：骗子彻底没辙了

原创 | 快科技 | 2017-02-14 15:13

支付宝方面今天宣布，2017年2月20日起，支付宝的付款码功能将只能用于线下付款，不再具备线上转账付款功能，所有收款功能统一到“我要收款”页面。

支付宝表示，此举是为了强化付款码的产品定位，更好的服务用户的不同业务需求，但事实上，这么做更多地应该是为了防范诈骗。

简单地说，支付宝的付款码相当于你的银行卡+密码，展示给别人后可以无需确认直接转账付款，因此诈骗分子经常会诱导用户向其出示付款码，轻松骗走钱财。

今后在超市、便利店等线下支付场景中，支付宝付款码依然可以正常使用，但在网上即便发给别人，对方也无法转账。

事实上在此之前，支付宝已经禁止在付款码页面截图，而如今更是彻底杜绝了骗子的诈骗途径。

如需通过支付宝收款，可以在支付宝首页点击右上角的“+”，选择“我要收款”，向对方展示其中的二维码，也可将我要收款功能添加到首页九宫格。

[Experts reveal security flaw on devices \(The Standard\)](#)

[Android社交網 中大揭保安日報](#)

[中大揭Android保安漏洞 全戶私隱堪虞 \(am730\)](#)

[中大程式揭手機社交網「」 \(文匯報\)](#)

[中大揭Android漏洞 憂泄個人資料 \(星島日報\)](#)

[中大團隊：Android和網站存保安漏洞 \(成報\)](#)

[黑客遙控語音功能盜私隱 \(明報\)](#)

[Android機「自言自語」洩私隱 \(蘋果日報\)](#)

Technology CyberSecurity

The little security flaw that enables you to immediately log into one billion Android app accounts

An OAuth 2.0 security bug makes it possible for hackers to steal data from Facebook and other ID providers.

By Mary-Ann Russon

Forbes

Security / #CyberSecurity

NOV 3, 2016 @ 12:32 PM 10,685 VIEWS

This Hack Can Silently Break Into 1 Billion Android App Accounts

Thomas Fox-Brewster, FORBES STAFF

I cover crime, privacy and security in digital and physical forms. [FULL BIO](#)

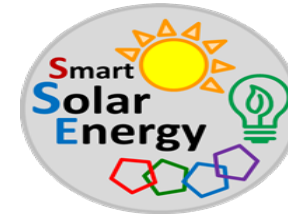


At least 1 billion Android apps are vulnerable to a simple hack, which can be carried out from anywhere on the planet, researchers claim. Photographer: Tony Avelar/Bloomberg

Hong Kong-based researchers have demonstrated an attack on a massive number of Android applications, allowing them remote access to whatever accounts lie within. The apps have been downloaded more than 1 billion times, they said, making the impact widespread and severe.

The trio of researchers - Ronghai Yang, Wing Cheong Lau and Tianyu Liu from CUHK, have demonstrated the flaw in a paper published on the arXiv preprint server.

Smart Buildings, Smart Grids and Smart Cities ...

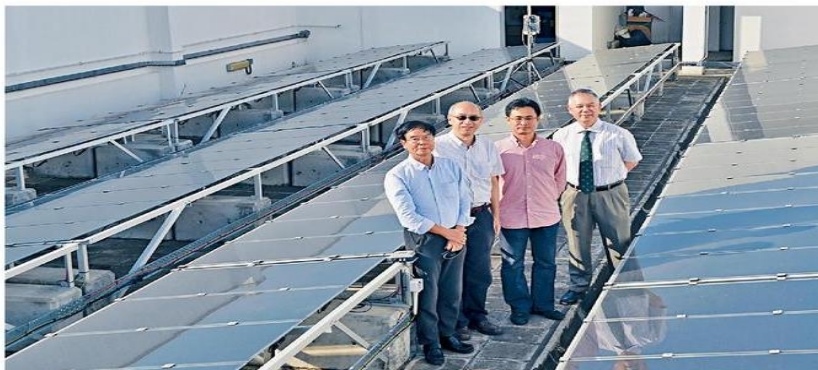


優化太陽能板 書院作試點

中大研發新技術 建自給自足微電網

獲研究資助局資助，由中文大學領導為期五年的跨院校「智能化太陽能技術：採集、存儲及應用」項目，取得階段性成果。研究團隊在研發太陽能板、儲電電池、和發展微電網上均有突破，技術的研發更令香港在再生能源技術上領先全球。團隊下一階段將在中大和聲書院進行實地試驗，發展獨立的微電網，待技術成熟後，更會在香港的離島進行試點。

記者 余嘉欣



■中大工程學院院長汪正平(左一)領導的「太陽能系統」研究項目，在和聲書院進行實地測試。

範圍小，其用電量較整個地區難預測。

技術領先全球

面對這個挑戰，團隊研發CHASE計算法，在沒有或極少預測資訊的條件下，成功預測網絡覆蓋範圍的用電量。與大數據量的實驗結果相比，CHASE算法的誤差少於百分之十。另一方面，和大電網配合的微電網，可自由選用接駁傳統大電網質電，或使用本地再生能源發電。這個穩定的預測方法，能讓系統選用當時較便宜的電源，達至可觀的經濟效益。中大訊息工程學系教授陳名華指，CHASE的分析可節省全年約兩成的成本開支。

現時只有日本、德國和美國有發展微電網的技術，汪正平指此技術的研發，令香港在再生能源技術上領先全球。是次研究項目在太陽能採集和儲存方面也取得重大突破。中大電子工程學系教授許建斌的團隊優化太陽能板的性能，研發「稀土敏化上轉換材料」，增加收集太陽光的效率達兩倍以上。汪正平與中大機械與自動化工程學系教授盧怡君，分別研發全球最高效能的非對稱性超級電容器，及全球能量密度最高的水系液流電池，以儲存太陽能系統的產電。

讀報學中文
教材詳見F6版

Over \$200 Million Granted for
Pushing Knowledge Frontier

(Theme-based Research Scheme, HK\$ 60.33M)
Participating Institutions: CUHK, HKUST, PolyU

Prof. **Wong Ching-ping**, Dean of Engineering, and his team members study the new technology in energy harvesting, storage and utilization

Our World-Renowned Professors

Dedicated Educators

- Love to interact with Students
- Inspire Students to become Top-notch Engineers, Researchers, Entrepreneurs, and Leaders

Our Mission:

To help Our students to Achieve their Dreams !

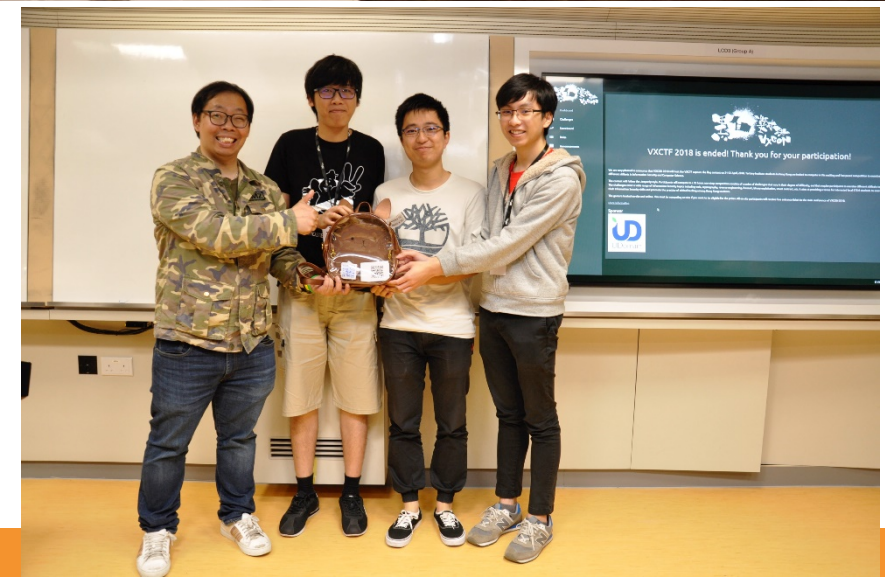




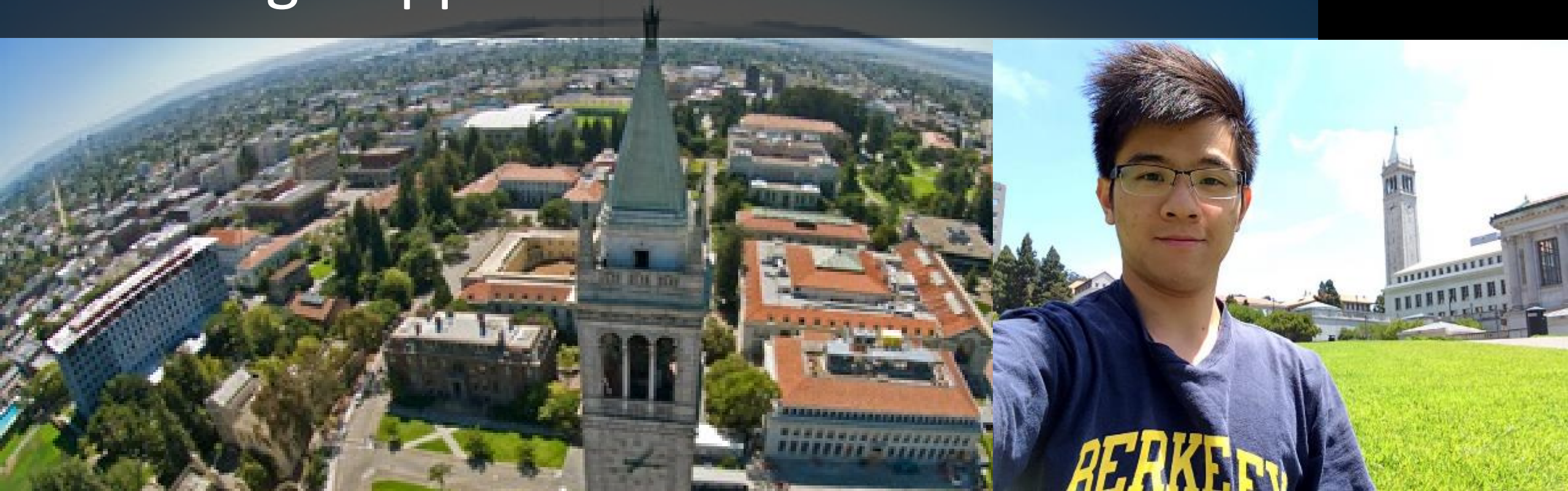
Champion of Inter-University Hacking Competitions



For both 2017 and 2018, CUHK Team won the 1st Inter-University Cybersecurity Hacking Competition organized by PriceWaterhouseCooper (PwC) Hong Kong ; also won VXCTF 2018 !



Exchange Opportunities



- **Exchange Destinations** for our students in the past few years:
 - MIT, UC Berkeley, Caltech, UIUC, U of Toronto, Purdue, Dartmouth, U. of Wisconsin-Madison, SUNY Buffalo, Stony Brook, Liverpool, U. of Hawaii, National University of Singapore, ...

IE Award to support Exchange Study

- **Eligibility**

- IE and MIE full-time students who have completed at least 1 term in the IE Department and with cum. GPA ≥ 3.3
- Got Exchange offer from the Office of Academic Link, CUHK

- **Award**

- For GPA ≥ 3.5 : HK\$30,000 to support Exchange expenses
- For $3.5 > \text{GPA} \geq 3.3$: HK\$20,000 for Exchange expenses

- **Application Procedure detailed in the IE website:**

- http://www.ie.cuhk.edu.hk/programmes/ie_award.shtml

After Graduation

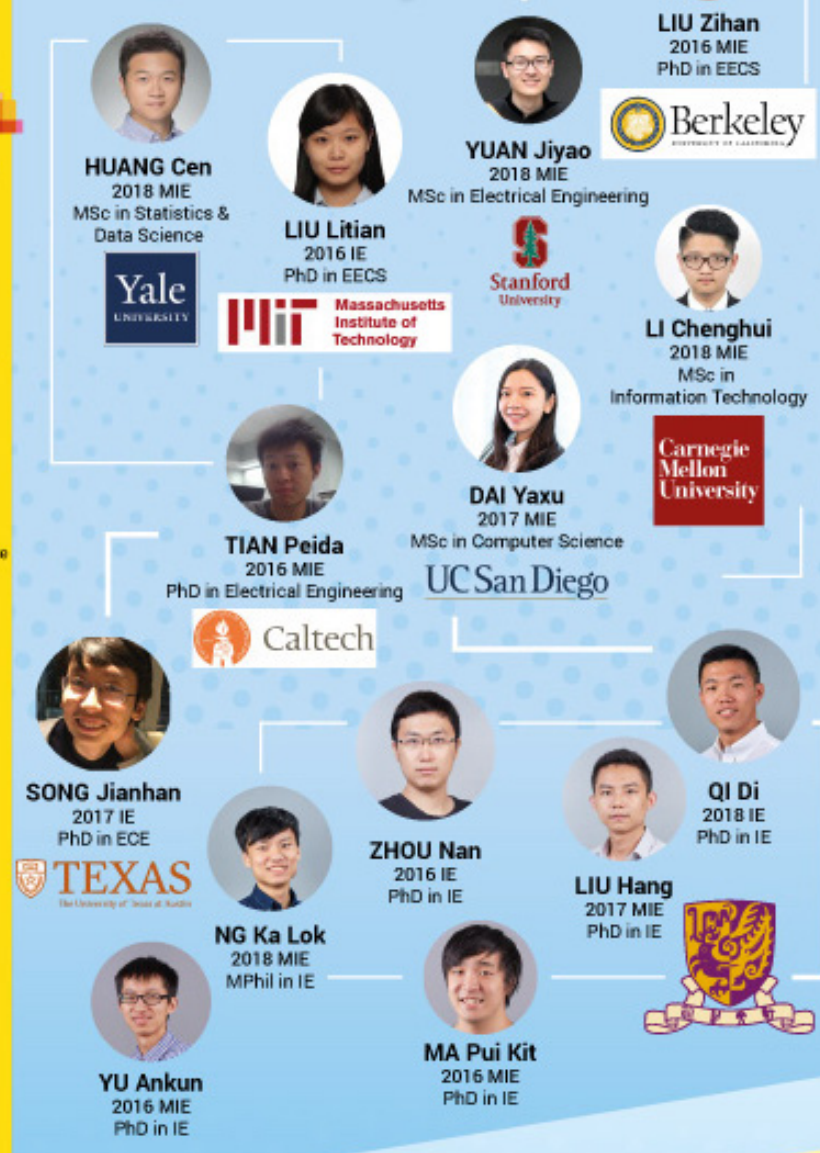




Employment..



Further Study..



Partial List of Grad School Destinations for IE & MIE Alum (2015-2018)

MIT (EECS PhD)

CMU (Data Science, ECE, Info Security, IT)

Stanford (EE)

Columbia (CS)

UC Berkeley (EECS PhD)

Georgia Tech (CS)

Caltech (EE PhD)

Rice (CS)

Cornell (ECE)

Northwestern (CS)

U of Texas at Austin (CS PhD, ECE PhD) Yale (CS, Data Science)

UC San Diego (CS, EE PhD)

UCL (CS)

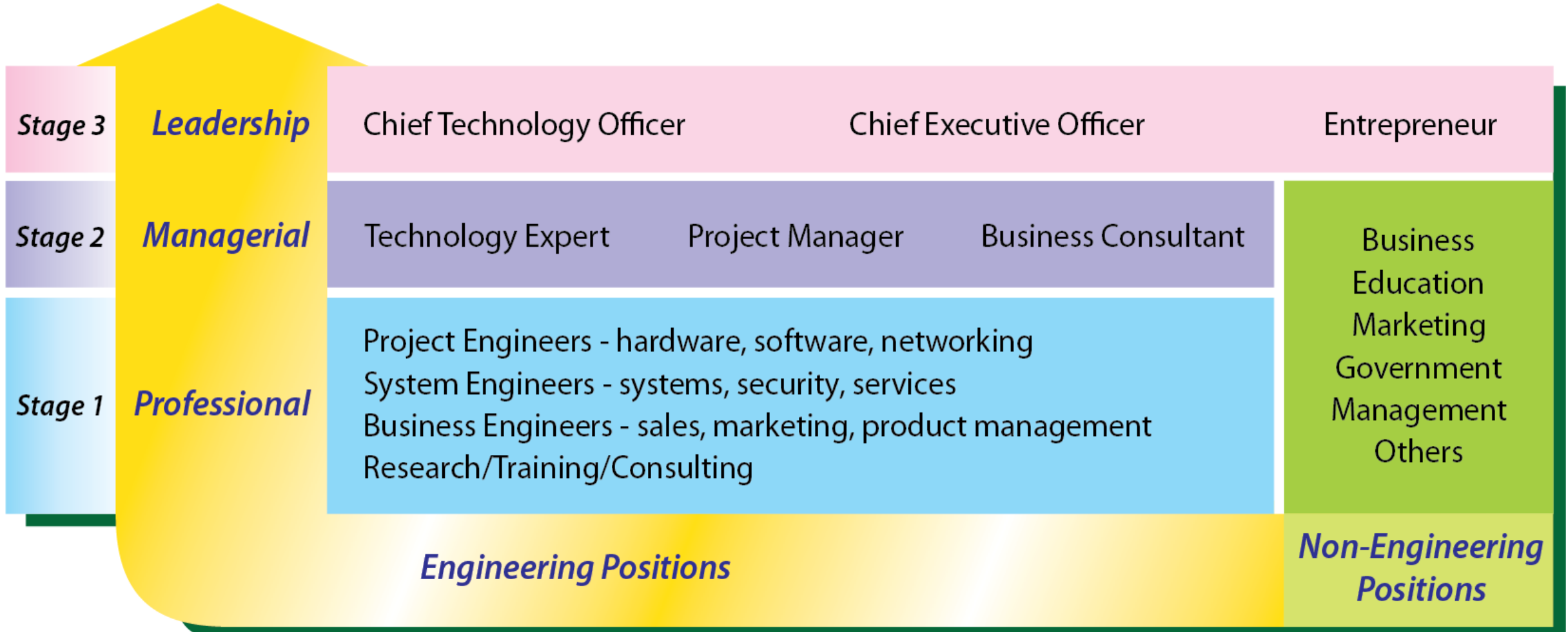
U of Maryland (ECE PhD)

U of Edinburgh (Computational Finance)

NYU (CS)

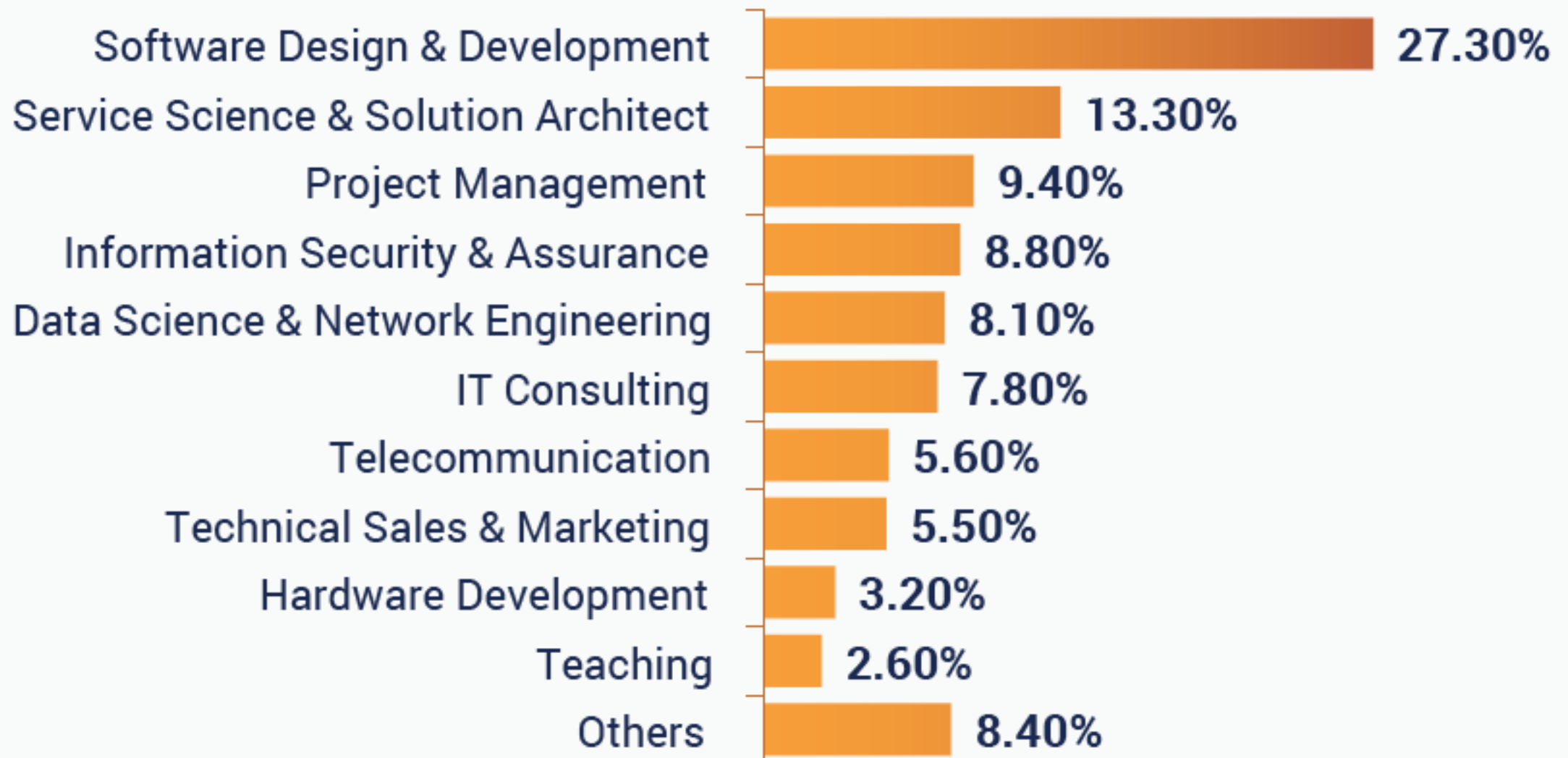
CUHK, HKU, UST (IE, CS, Big Data, Finance, Math)

Career Prospects



2017 IE Graduate Employment Survey in March, 2018

Job Nature of Graduates



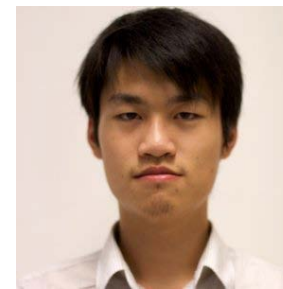
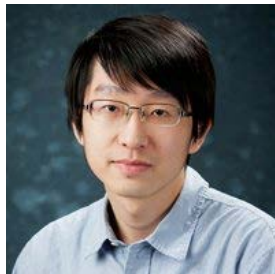
YOUR CAREER

Information & Communications Technologies

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MODERN DATA SCIENTIST

Data Scientist, the sexiest job of 21st century requires a mixture of multidisciplinary skills ranging from an intersection of mathematics, statistics, computer science, communication and business. Finding a data scientist is hard. Finding people who understand who a data scientist is, is equally hard. So here is a little cheat sheet on who the modern data scientist really is.

MATH & STATISTICS

- ☆ Machine learning
- ☆ Statistical modeling
- ☆ Experiment design
- ☆ Bayesian inference
- ☆ Supervised learning: decision trees, random forests, logistic regression
- ☆ Unsupervised learning: clustering, dimensionality reduction
- ☆ Optimization: gradient descent and variants



PROGRAMMING & DATABASE

- ☆ Computer science fundamentals
- ☆ Scripting language e.g. Python
- ☆ Statistical computing package e.g. R
- ☆ Databases SQL and NoSQL
- ☆ Relational algebra
- ☆ Parallel databases and parallel query processing
- ☆ MapReduce concepts
- ☆ Hadoop and Hive/Pig
- ☆ Custom reducers
- ☆ Experience with xaaS like AWS

DOMAIN KNOWLEDGE & SOFT SKILLS

- ☆ Passionate about the business
- ☆ Curious about data
- ☆ Influence without authority
- ☆ Hacker mindset
- ☆ Problem solver
- ☆ Strategic, proactive, creative, innovative and collaborative

COMMUNICATION & VISUALIZATION

- ☆ Able to engage with senior management
- ☆ Story telling skills
- ☆ Translate data-driven insights into decisions and actions
- ☆ Visual art design
- ☆ R packages like ggplot or lattice
- ☆ Knowledge of any of visualization tools e.g. Flare, D3.js, Tableau

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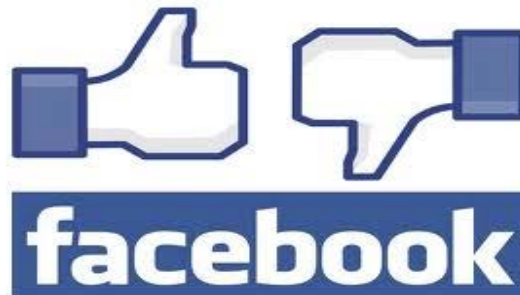
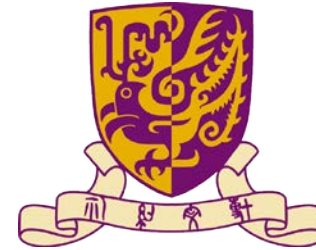
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Research & Academia

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李英豪小檔案

- 2006 香港中文大學崇基學院工程學士
- 2009 首次創業，與團隊一同開發移動社交平台「多樂趣」
- 2011 成立移動支付平台「錢方」
- 2013 「錢方」被清科集團評為《2013年中國最具投資價值20強》
- 2013 「錢方」被美國著名科技博客Techcrunch譽為中國的Square
- 2014 「錢方」入選《中國企業家》雜誌「未來之星100強企業」

錢方好近獲日本企業投資2.2億元

By StartupBeat on November 25, 2016

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錢方創辦人李英豪（中）在日本東京與昭文社行政總裁黑田茂夫（左）、Whiz Partners 營運總監松村淳（右）簽署合作協議。



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OurSky 創辦人
鄭斌彬 - 中大2007年信息工程畢業生





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產品：防遺失物件晶片連手機程式

創業者：中大校友郭瑋強(左起)、3年級生劉栢林和梁逸然

簡介：小晶片(透明盒內)有GPS定位、溫度感應等功能，當放有晶片的銀包等重要物品離開手機一定距離，手機程式會發聲或提示通知用戶。

 Wearable device 便攜穿戴式裝置	 Multiple connection 一對多管理系統	 Apps available 支援手機應用程式
 Extremely small size 超細小電路體積	 3 months battery life 電池可續性達三個月	 3 levels protection 三重防失保護

郭瑋強 - 中大2015年
信息工程畢業生



Thank you!

*If you have further enquiries,
please feel free to email us at:
info@ie.cuhk.edu.hk*



Department of Information Engineering
The Chinese University of Hong Kong