香港科技大學
THE HONG KONG
UNIVERSITY OF SCIENCE
AND TECHNOLOGY
Big Data Institute
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Big Data Institute

Hong Kong and nation's
Big Data Research Center

Educational Programs

Technology Transformation

Funding Support

Industry Applications

Scientific Research

Talent Training

Recruit
talents in
academia
Navigate
research
development
Industrialize
scientific
achievements and
create long-term
impact to the world
Aspire innovation
and breakthrough
Benefit the
Greater Bay Area
(HK / Macau /
Guangdong),
Greater China
Region and the
world
BRAIN
Mission
and
Vision

BDI Achievement Highlights

50+ faculty and **120+ students** from **interdisciplinary** Schools and Departments for **16 collaborative R&D projects** and **4 joint labs**

Over **HK$ 80 million** & **US$ 1 million** industrial sponsorship and donation

with one of the largest government-funded ITF Smart City Project

1st **WeChat** **Overseas Joint Lab** in Asia

Line/Naver **Overseas Joint Lab** in the **World**

Trained **400+** **BDT Master Students**

Partnership with **leading companies**

Microsoft, Alibaba Cloud, HKSTP, ByteDance, 京东, Hong Kong Society of Artificial Intelligence and Robotics, NVIDIA, xiao-i 小i机器人, and more…

BDI Team

At present, there are more than **50 faculty members** and over **120 students** involved BDI's **16 research projects** from

- School of Engineering
- School of Science
- School of Business & Management
- Department of Computer Science and Engineering
- Department of Industrial Engineering and Decision Analytics
- Department of Electronic and Computer Engineering,
- Department of Chemical and Biological Engineering
- Department of Information Systems, Business Statistics and Operations Management
- Department of Mathematics
- Division of Life Science
- Division of Social Science

Prof Lei Chen
Director of BDI
Prof Nancy Ip
Vice-President for Research and Development
Prof Tony F Chan
Former HKUST President
Prof Tim Cheng
Dean of Engineering
Prof Yang Wang
Associate Director of BDI & Vice-President for Institutional Advancement
Dr Tieniu Tan
Vice Minister of the Liaison Office of the Central People's Government in HKSAR
Prof Qiang Yang
Founding Director of BDI
AI DAY

Director

Lei Chen 陳雷
Chair Professor,
Department of Computer Science and Engineering, HKUST

Associate Director

Yang Wang 汪揚
Vice-President for Institutional Advancement, HKUST

Founding Director

Qiang Yang 楊強
Chair Professor,
Department of Computer Science and Engineering, HKUST

Ke Yi 易珂
Professor, Department of Computer Science and Engineering, HKUST

Albert Chung 鍾志成
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Shaojie Shen 沈劭劼
Associate Professor, Department of Electronic and Computer Engineering, HKUST

I-ming Hsing 邢怡銘
Head & Professor of Department of Chemical and Biological Engineering, HKUST

BDI

Our Team

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Yu Hu 胡禹
Assistant Professor, Department of Mathematics, and Division of Life Science, HKUST

Industrial Partners and Donation

BDI

2015 RMB ¥ 10 million Tencent

2016 US$ 1 million *Mr. Raymond Chu*

2015 HK$ 10 million ITF (Innovation and Technology Fund) Smart Transportation project partnered with THALES

2016 HK$ 20 million ITF (Innovation and Technology Fund) Smart City project partnered with 神州数码 Digital China

2018 HK$ 5 million Ying Ding Education Technology Co., Ltd

Forgame

2018 HK$ 2 million Donation

2018 HK$ 1 million Space Tactics Asset Management 思彼思 o2o SPACE

2018 HK$ 2.46 million NAVER

2020 RGC-RIF Project HK$ 5.6 million

2019 xiao-i 小i机器人

and more...

OUR LABS

WHAT Lab

BDBI-Machine Learning Lab

Smart City Lab

HKUST-Ying Ding Education AI Lab

NAVER

HKUST-NAVER/LINE AI Lab

思彼思 o2o SPACE

高陞創科有限公司 Accel Innovations Limited

xiao-i 小i机器人

Forgame

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BIG DATA INSTITUTE

WeChat-HKUST Joint Lab on Artificial Intelligence

WHAT Lab

2015-11-26 WHAT Lab was established in HKUST

Tencent entered into a 5-year research partnership with BDI since late 2015, amounts to RMB10 million in total.

WeChat and HKUST will jointly conduct Artificial Intelligence (AI) Technology related research and explore the far-reaching frontiers of AI. This collaboration on AI research is expected to be long-term and world-leading. Research areas of WHAT LAB include intelligent robotic systems, natural language processing, data mining, speech recognition and understanding.

Machine Reading aims to develop Machine Learning algorithms that could read and comprehend natural language documents as humans do.
With Machine Reading, natural language information is converted to the form that could be processed by computers, and could be further utilized in applications such as summarization, question answering and dialogue system.

Aims at social networking big data mining and machine learning, natural language processing and robotics research.

- **Natural language processing**
- **Data Mining & Visualization**
- **Video Analysis**
- **Large –Scale Machine Learning**
- **Robotic Application**

WHAT Lab

Machine Reading: Breakthrough in Natural Chinese Processing

It aims to develop Machine Learning algorithms that could read and comprehend natural language documents as humans do, the technique can be further utilized in applications such as summarization, question answering and dialogue system.

- Natural language processing
- Data Mining & Visualization
- Video Analysis
- Large –Scale Machine Learning
- Robotic Application

据印度报业托拉斯报导，当地时间2日，在巴基斯坦接壤印度的巴方边境口岸瓦格赫发生了一起自杀式炸弹袭击。根据最新消息，这起袭击事件造成了至少55人死亡，其中包括了孩子和安全人员，另有近200人受伤。巴基斯坦官员表示，此次的事件是一起自杀式袭击。

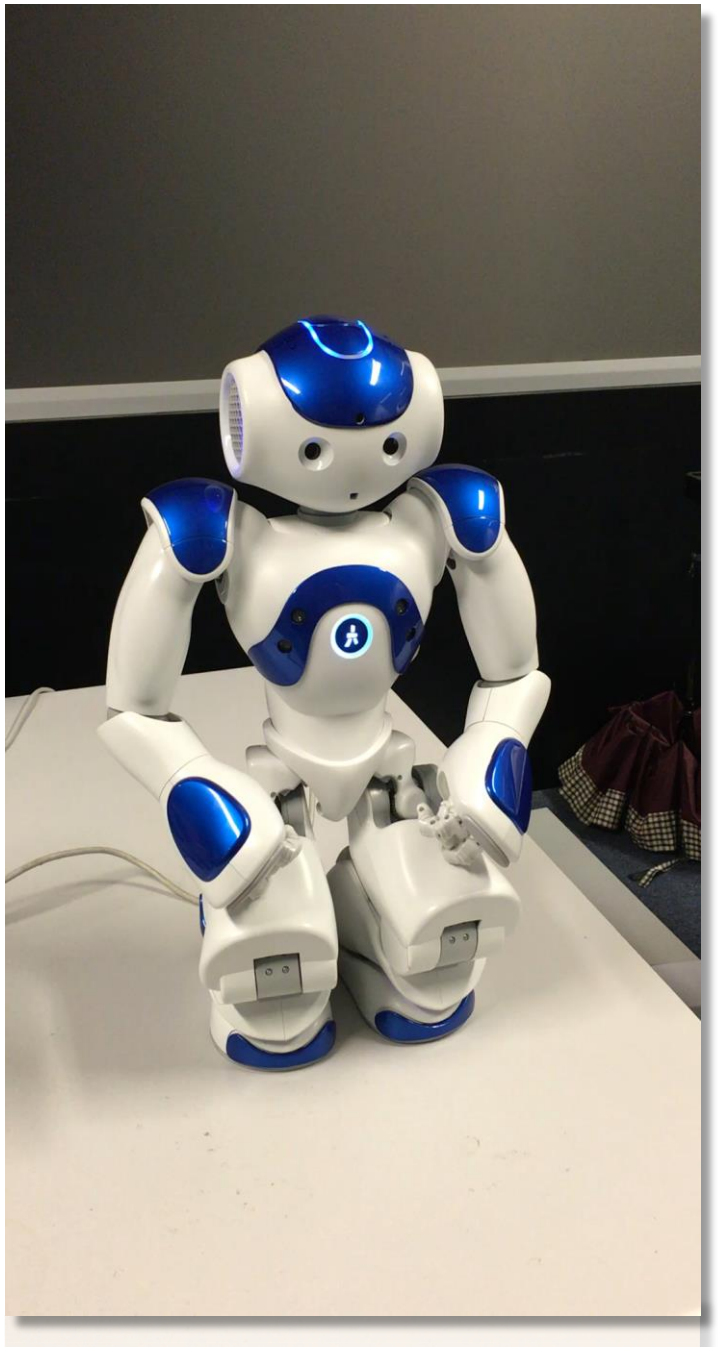
NEWS

Human

印巴边境发生自杀式袭击致55人死亡

Machine

巴基斯坦发生自杀式炸弹袭击事件造成至少55人死亡



Dialog Robot

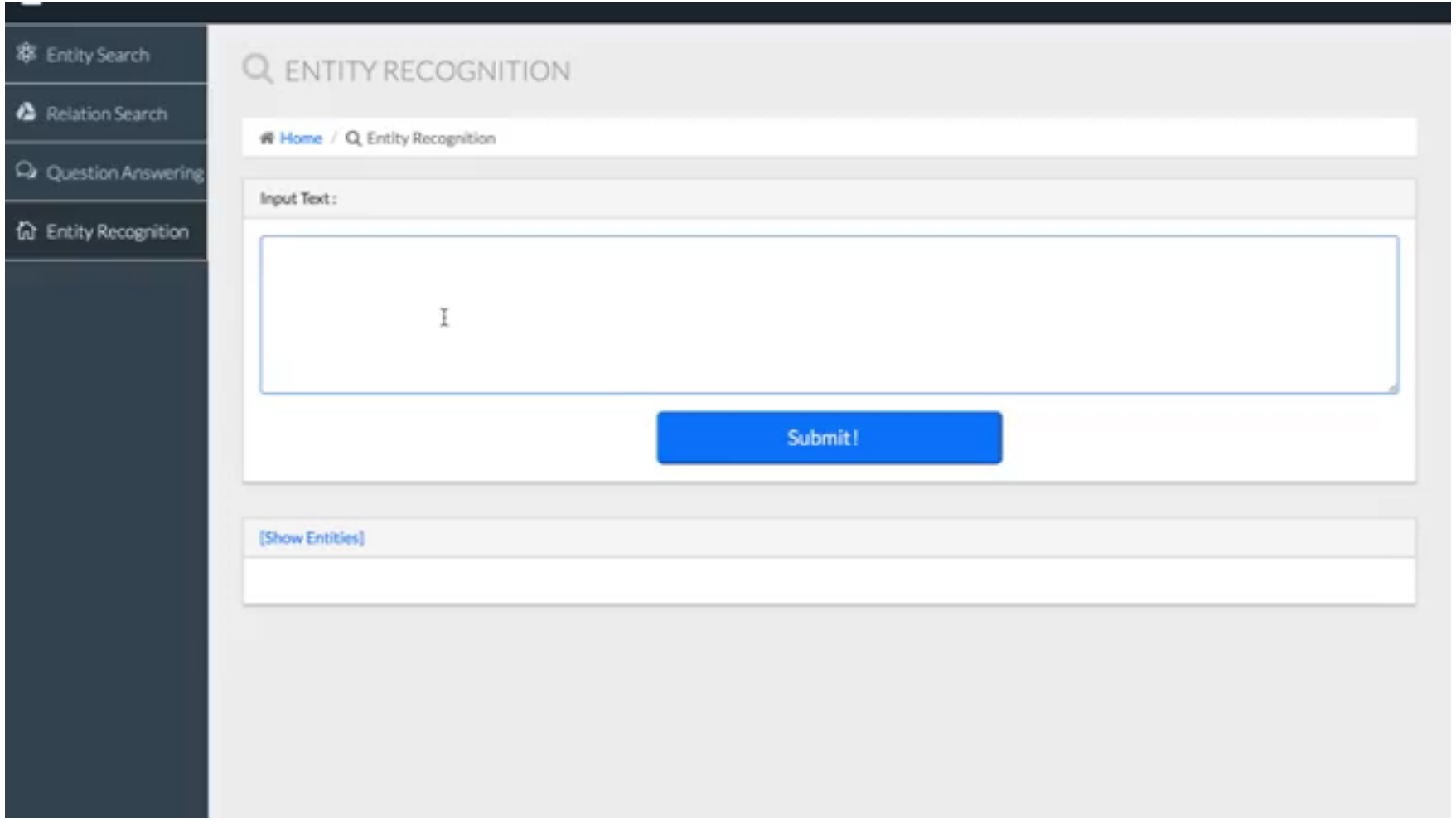
Through the dialogue system, computer information can be translated into natural language description, and human language can also be translated into computer information, so as to achieve human-computer interaction.

Reinforcement and transfer learning, can be used to solve the problem of dialogue system. Reinforcement learning can solve the problem of delayed feedback in multiple rounds of dialogue, while transfer learning can help target areas by using data from similar fields, which can solve the problems of traditional intensive learning data.

WHAT Lab

Domain Specific Knowledge Graphs

- Medical Knowledge Graphs



Model-based Global Localization for Aerial Robots using Edge Alignment

Kejie Qiu, Tianbo Liu and Shaojie Shen

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AND TECHNOLOGY

High resolution video available at:

http://www.ece.ust.hk/~eeshaojie/ral2017kejie.mp4

WHAT Lab

WeChat Crowdsourcing Platform

The WeChat Crowdsourcing Platform is designed and developed by WHAT Lab and WeChat team together. Researchers can publish crowdsourcing tasks on the platform and WeChat users can participate in and get monetary rewards. Different mechanisms for task assignment and answer aggregation are equipped and plenty of real tasks from HKUST and Tencent have been published and finished on the platform. It is both a useful tool for data labeling and an industry level crowdsourcing research environment.

WHAT Lab

WeSeer System: go online

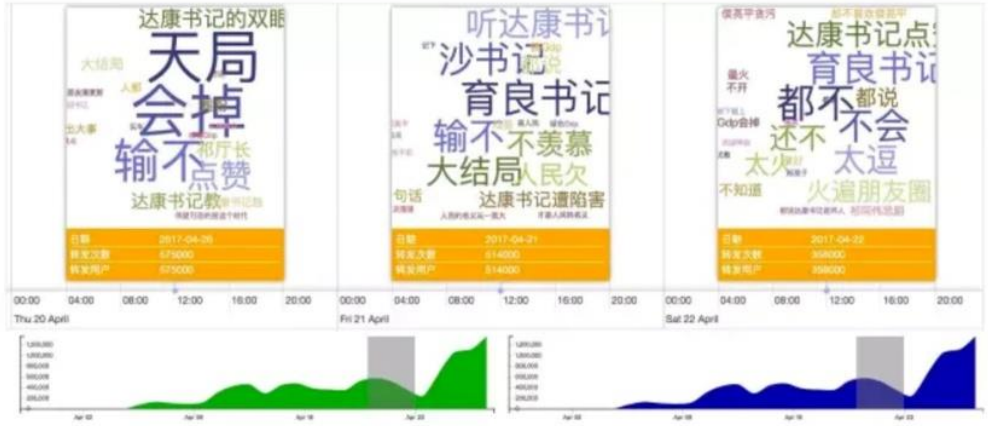
WHAT Lab

这次微信人工智能实验室 WHAT Lab 用数据可视化算法也看了一回《人民的名义》

大结局的前一周

《人民的名义》相关热词曲线

4 月 20 日 ~ 4 月 22 日

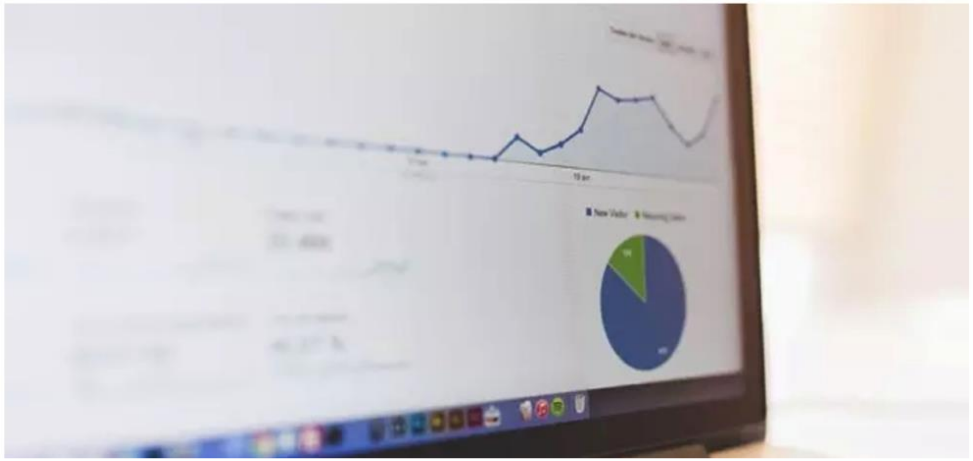


2017 年 4 月 20 日，带有《人民的名义》标题的微信文章转发次数达到了 575000 次，朋友圈几乎被以达康书记为首的汉东男子天团所占领，可以看到很多人对大结局充满了期待。

The WeSeer system developed by WHAT Lab was deployed and applied to WeChat, Tencent for daily propagation analysis. The system enable to analysis how official public account article information propagate in WeChat platform from different perspectives, involving a 3D global overview, time-varying propagation view, community detection view, etc.

微信小秘密: 2016 年那些 10w+ 文章是怎么刷爆朋友圈的?

Original 2016-12-30 WeChat TechPower WeChat TechPower



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BIG DATA INSTITUTE

Big-Data Bio-Intelligence and Machine Learning Lab

BDBI

The Big Data for Bio Intelligence Laboratory (BDBI)

Donation by Mr. Raymond Chu: US $1 million

Devote to the development of advanced machine learning systems and promoting applications of machine learning in bio and genetic areas, aims to become a leading laboratory in the research of big data for biological intelligence and to bridge the knowledge gap between academics and practitioners.

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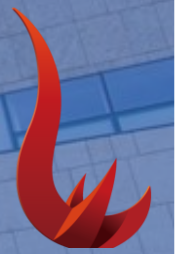
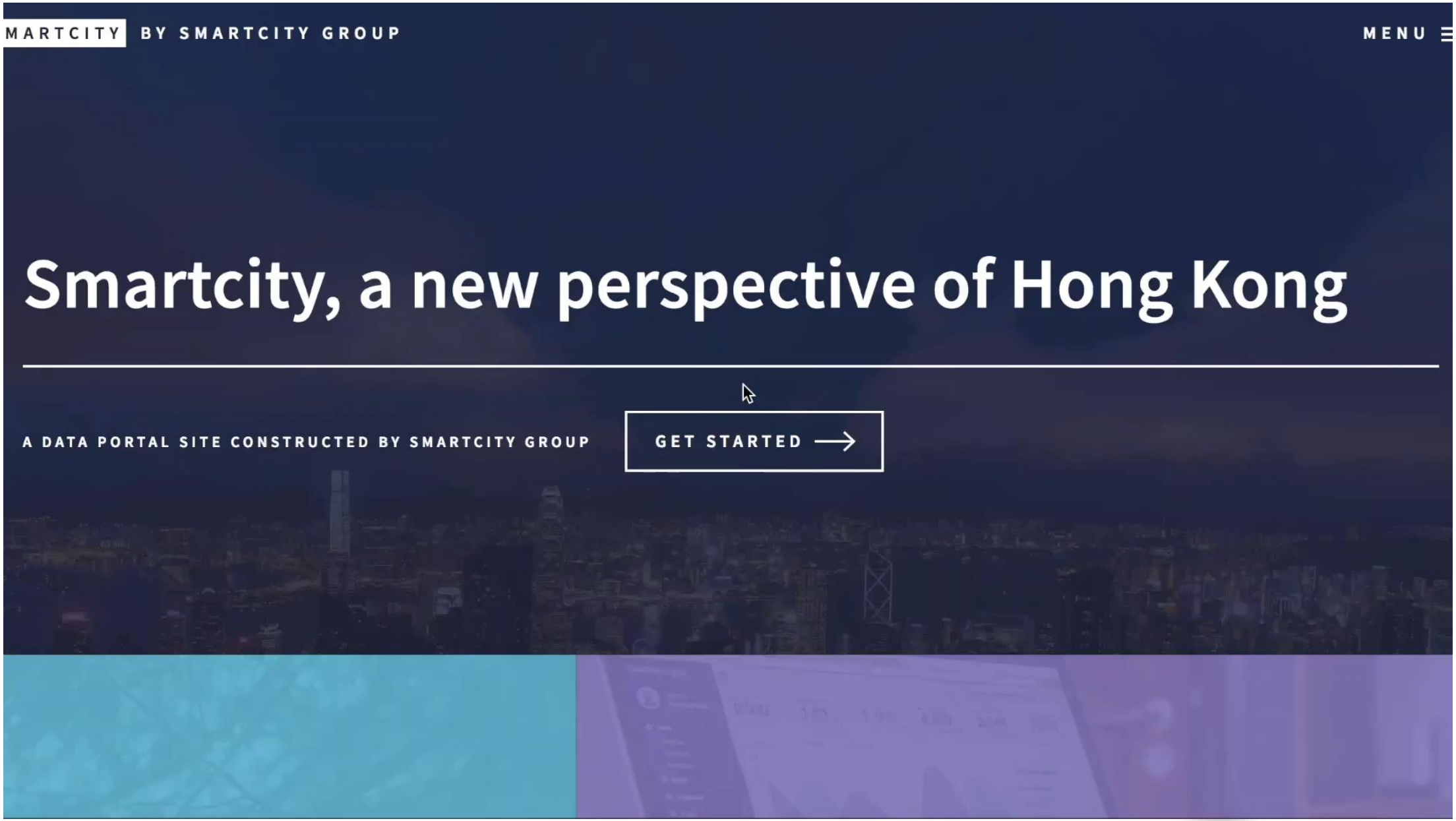
Smart City Lab




MARTCITY BY SMARTCITY GROUP
MENU
Smartcity, a new perspective of Hong Kong
A DATA PORTAL SITE CONSTRUCTED BY SMARTCITY GROUP
GET STARTED

Smart Ridesharing

With the cooperation of DiDi (the biggest online car-hailing company in Mainland China), we can utilize the huge amount of data generated by millions of drivers and customers to help the company improve the efficiency of their services and the user experience of both drivers and customers.

We help DiDi to design smart vehicle dispatching strategies and dynamic pricing strategies such that the efficiency of the ridesharing service can be improved, and the overall profit of the platform can increase.

A fare price?

Smart City Lab

E-LEARNING

Move Academia towards "Evidence-Based Education":

Stage 1: Multi-Variant Model for Quality Measurement of Course Materials.

Stage 2: Pattern Discovery Algorithms & Outlier Detection Mechanism.

Objectives of the platform

- Effectively monitoring and directing the crowd in railway stations so that early warnings can be given on potential dangers.
- Ensuring smooth operation of railway transport system by predicting potential major equipment failure.
- The platform will cover a number of frontiers of big data research, including data integration, data analysis, human factors, optimization/visualization, transfer of learning, simulation and operational research.

Smart City Lab

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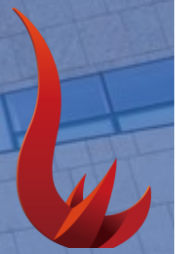
BIG DATA INSTITUTE

HKUST- Ying Ding Education AI Lab



HKUST- Ying Ding Education AI Lab

Ying Ding Education co. funded HK$5 million to establish a collaboration with BDI for founding an AI lab.

HKUST- Ying Ding Education AI Lab

The Lab focuses on developing collaborative programs for the purpose of strengthening educational research collaborations and development of blended learning initiatives.

- ✓ Development of Blended Learning Platform and Pilot Program
- ✓ Collaboration on Mainland Educational Activities
- ✓ Collaboration on Educational Data Analysis

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BIG DATA INSTITUTE

AGT Accel Innovations Limited

Forgame

NAVER

xiao-i 小i机器人

思彼思 o2o SPACE

Established Joint Labs

李兆基商學大樓
Lee Shau Kee Business Building

Established Joint Labs

HKUST-NAVER/LINE AI Laboratory

NAVER

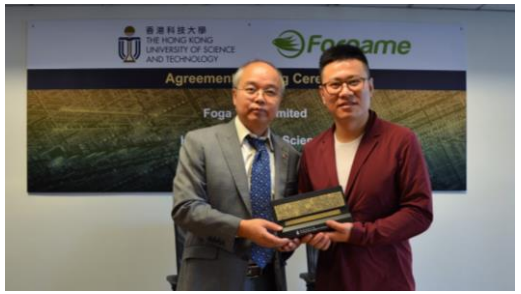
The lab aims to develop a comprehensive set of research and talent-development programs to pursue cutting-edge research for advancement of AI technology and enrich the learning experience for students.

HKUST-Xiaoi Robot Joint Lab on Machine Learning and Cognitive Reasoning

xiao-i 小i机器人

The Joint Lab will emphasis on integrating machine learning and cognitive reasoning to build the next generation AI system with high credibility and cognitive capabilities. It will also train student talent in AI and foster research and industry collaboration, contributing to the societal and economic development of Hong Kong and the Greater Bay Area.

Established Joint Labs



Digital Currency and Blockchain Research Lab

Forgame

The Lab will support research and training of postgraduate / postdoctoral students related to FinTech and blockchain.

Health Data Analytics Lab

思彼思® o2o SPACE
思 彼 思 商 業 控 股（集 團）

The Lab will support research related to data science and provide a platform for nurturing young researchers.

Upcoming Joint Labs

HKUST-Accel Joint Laboratory on Internet of Things (IoT)

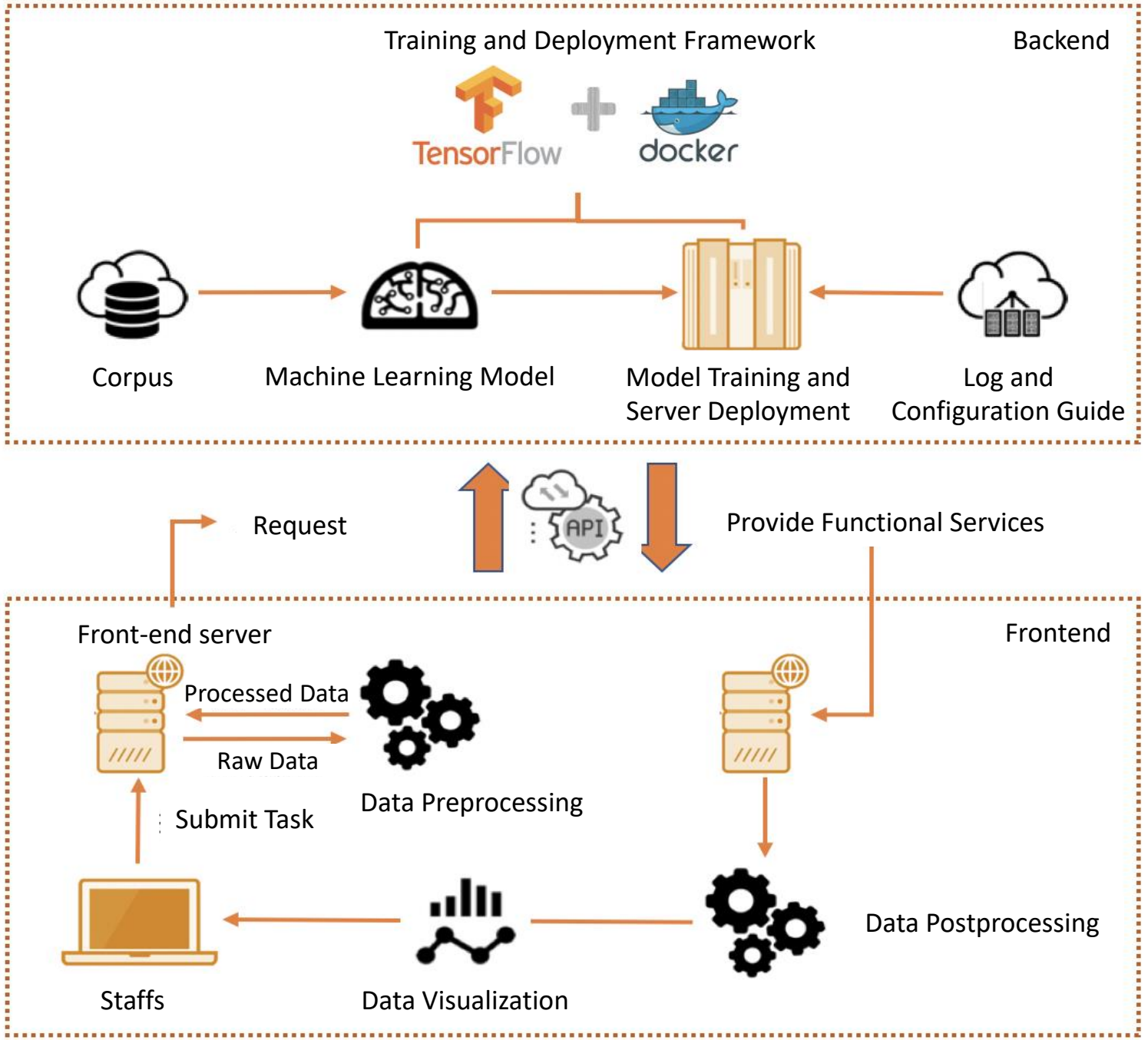
AGT
高陞創科有限公司
Accel Innovations Limited

NEW PROJECT!

Guangdong Grid Co.

Intelligent Document Assistance System

- New word discovery based on left and right entropy and internal solidification
- Correction of typos based on neural network
- Research on entity recognition model based on neural network
- Picture text detection and recognition algorithm
- Seal extraction and recognition algorithm



NEW PROJECT!

Intelligent Document Assistance System

NEW PROJECT!

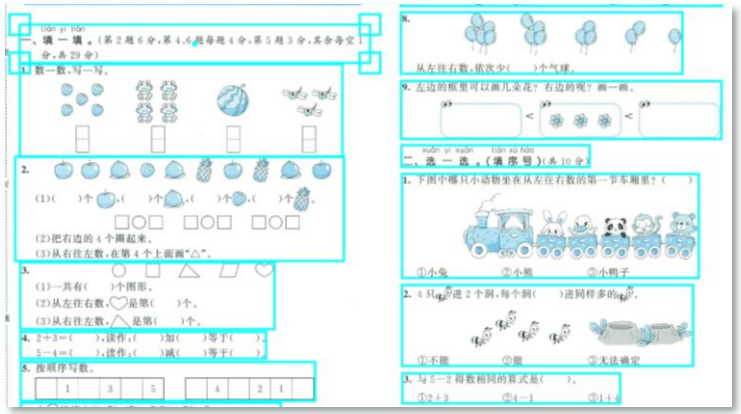
OCR Based Exam Questions Recognition and Searching System

Scan

Picture generation

Layout analysis

Question identification



OCR system recognizes the text in the questions

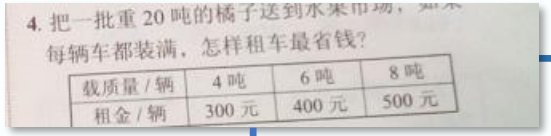
OCR

Store the processed picture and text information in database

Analyse data with a full-text search database

Paper exercise book

User-taken pictures



OCR

Personalized OCR system: recognize special numeric types

Text content recognition

Graphic recognition

Graphic typesetting information

Search for similar questions

Big Data and AI Day

BigDatathon

FinTech Forum

Distinguished Lectures, Seminars, Workshops

Social Impact

Organize Distinguished Lectures, Seminars, Workshops, Competitions, Forums to facilitate knowledge transfer

Xiao-i and HKUST Launch Joint Laboratory on Machine Learning and Cognitive Reasoning

2019年7月16日 星期二 10:15AM
30°C

明報新聞網

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上一篇 下一篇

科大伙內地AI龍頭 研發粵語聊天機械人

讚好 213

圖1之1 - 科大工學院院長鄭光廷（左二起）、科大副校長（研究及發展）華玉……（林曉筠攝）

HKUST Establishes Laboratory on Big Data for Bio Intelligence

科大設大數據生物智能實驗室

■左起：陳繁昌、朱慧恒、副校長(研發及研究生教育)李行偉、楊強合照留影。 科大供圖

香港文匯報訊 （記者 高鈺） 香港科技大學昨正式成立大數據生物智能實驗室，為生物學及醫療保健方面設計大數據分析方案，實驗室將由科大新明工程學教授、計算機科學及工程學系講座教授兼系主任楊強，及數學系講座教授兼系主任汪揚共同領導。

科大校長陳繁昌特別鳴謝實業家朱慧恒的捐助，又指大數據的應用將會為人類的生活帶來革命性的轉變，有關研究是該校策略發展方向之一，而隨着實驗室的成立，他深信科大能為大數據研究的迅速發展帶來新見解。

大數據生物智能實驗室的研究範疇包括「深度學習方案」，即透過豐富功能描述機器的學習問題，從而讓電腦作出決定；以及能讓電腦模型輕易地在不同領域中應用的「直推式遷移學習」。實驗室亦會專注研究基因養殖，令過程更為自動化和易於使用，以及配

HKUST Signed Framework Agreement with Digital China to Build Smart City Research Institute

人民网 people.cn 人民网 >> 港澳

香港致力打造大数据驱动的智慧城市

2016年06月29日12:42 来源：新华社 分享到：

原标题：香港致力打造大数据驱动的智慧城市

“我们的口号是要把香港打造成大数据驱动的智慧城市。”香港科技大学计算机科学与工程学系系主任杨强对新华社记者说，在他的牵头下，科大组织了一批专家开展智慧城市建设的研究和大数据的应用。

香港特区行政长官梁振英在《２０１６年施政报告》中也提到，特区政府将与科研及公私营机构共同研究建设智慧城市。特区政府创新及科技局（创科局）将负责制定智慧城市的数码架构和标准。

创科局回应记者关于香港智慧城市建设构想时表示，将于２０１６年下半年开展一项顾问研究，为香港制定一个整体框架作为智慧城市发展蓝图，研究范围包括策略、发展计划、管治安排、数码架构和标准、公私营合作模式等。目标是为香港[illegible]一个至２０３０年的智慧城市长远发展计划，利用创新及科技解决面对的都市[illegible]，并提升城市管理和改善市民生活质量。顾问报告预计于明年４月完成。

Social Impact

BDI pursue to bring positive influence to the community and lead the tread in top technology field

hket 互聯網 2018年4月13日 星期五 A17

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BIG DATA & AI DAY 2018

Naver及LINE人工智能發展

人工智能平台Clova
- 可處理文字、語音及圖像搜索，如忘記電影名稱，用戶輸入簡單情節描述，平台可找出電影；用戶拍攝貓的相片，平台可說出貓的品種
- 秘書功能，作天氣預報、安排行程、推薦音樂等
- 目前支援韓文及日文，正開發支援法文及西班牙文

智能喇叭Clova Wave及Clova Friends
- 去年10月及12月分別推出兩款智能喇叭Clova Wave及Clova Fridens，為搶攻日本AI市場鋪炮

與科大成立人工智能實驗室
- Naver及LINE出資246萬元與科大成立人工智能實驗室，科大將開展聊天機械人、中文人工智能助理、客服等項目

資料來源：綜合受訪者及本報資料室

▲南韓搜尋引擎公司Naver及子公司LINE，與科大合作成立人工智能實驗室。Naver行政總裁韓聖淑（前排右）稱，公司希望吸收全球創新AI意念，而科大AI研究獲全球認可，因而選擇與科大合作。（林宇翔攝）

科大大數據研究所署理所長陳雷表示，科大將協助Naver提供中文AI所需的語音和符合中國市場的個人化推薦服務。（林宇翔攝）

首度合作

LINE夥科大設AI實驗室

開展中文客服項目 鋪路進軍中國

HKUST Becomes the First University Partner Worldwide with NAVER/LINE to Set Up AI Lab

實驗室。成為Naver全球首個與大學合作的聯合AI實驗室。

韓母公司Naver 投放246萬

Naver行政總裁韓聖淑昨出席開幕儀式時

出色基礎研究成果，需擴大影響力至應用層面，形容雙方合作為雙贏。

陳稱，實驗室由4位教授帶領8名學生研究，將會開展數個項目，包括聊天機械人處理規劃行程、擔任客戶服務等角色，以及中文自

Interface」，模擬人類腦部與5大感官，前者主要處理語言理解，AI對話，後者解決語音、臉孔辨識，如用戶忘記電影名稱，簡單向Clova描述電影情節，AI便可找出來。

专访微信人工智能实验室：社交网络已成为人工智能的一个热点

| 作者 杜小芳 发布于 2015年12月19日. 估计阅读时间: 不到一分钟 | 讨论

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腾讯旗下微信团队和香港科技大学于11月30日宣布成立联合实验室，WeChat-HKUST Joint Lab on Artificial Intelligence Technology，简称：WHAT Lab。该实验室将以人工智能

港科大聯手微信建「智能實驗室」

HKUST and WeChat Establish Joint Lab on Artificial Intelligence Technology

室」，由楊強領銜。他對大公報表示，香港在AI領域有很多做機器學習、深度學習、機器翻譯的優秀深耕於學術界，希望由此開始打開兩地在人工智能領域的合作。

楊強介紹，香港科技大學在人工智能，機器人和大數據領域在世界上都是處於領先地位。機器學得多項世界比賽冠軍，包括ACM KDDCUP大賽、諾基亞大賽以及ImageNet。在遷移學習、統計機域也引領世界研究潮流。學校研究的情感機器人被「科學美國人」報道，大學出來的創新公司包括世大學雲集國際著名協會的院士，包括幾十名IEEE Fellow。楊強本人也是國際高等人工智能協會（AA

15年國際人工智能大會的主席，以及IEEE大數據期刊的創始主編

World Experts in Big Data and Artificial Intelligence Gather at HKUST to Share Insights into Future

26-05-2017

The Big Data Institute (BDI) of the Hong Kong University of Science and Technology (HKUST) today (Friday) organized its first Big Data and AI Day, playing host to a stellar assemblage of world top academics and industry celebrities in the realm of Big Data and Artificial Intelligence (AI), sharing information and insights into the future of this trendy field.

Since the establishment of the BDI in 2016, its first Big Data and AI Day drew a learned audience of over 500 guests, including local and overseas academics, leaders in the Big Data and AI-related industries, as well as students from various tertiary institutions in Hong Kong and abroad. The overwhelming attendance attested to the key role of HKUST's research in these fields.

Dr Tieniu Tan, Vice Minister of the Liaison Office of the Central People's Government in Hong Kong, officiated at the symposium. In his keynote speech on big visual data analysis, Dr Tam said, "Hong Kong is a great place for Big Data and AI, and Big Data and AI are a great hope for Hong Kong, making the place smarter and stronger."

Delivering the opening remarks, President Chan said, "Research into Big Data and AI is one of HKUST's strategic

Dr Tieniu Tan, Vice Minister of the Liaison Office of the Central People's Government in HKSAR (7th from right), HKUST President Prof Tony F Chan (6th from right), Vice-President for Research and Graduate Studies Prof Nancy Ip (7th from left), Dean of Engineering Prof Tim Cheng (5th from

Social Impact

BDI pursue to bring positive influence to the community and lead the tread in top technology field

HKUST BDI

Benefit the Greater Bay Area (HK / Macau / Guangdong), Greater China Region and the world

Industrialize scientific achievements and create long-term impact to the world

Aspire innovation and breakthrough

BRAIN

Recruit talents in academia

Navigate research development

香港科技大學
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

BIG DATA TO BIG DREAMS

Big data is the oil of 21st century, however, unlike the oil, its reserve grows exponentially every year

JOIN BDI, ignite your future

HKUST Big Data Institute