



香港中文大學(深圳)  
The Chinese University of Hong Kong, Shenzhen

31

出版日期：2018年10月

# 春華秋實



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香港中文大學(深圳)  
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## 香港中文大學(深圳)2018年度入學典禮隆重舉行 CUHK-Shenzhen Holds 2018 Inauguration Ceremony



9月2日上午，香港中文大學(深圳)2018年入學典禮隆重舉行，1146名內地本科生、55名國際生、598名碩士和博士研究生在此開啓了新的學術生涯。

香港中文大學(深圳)理事會主席、香港中文大學校長段崇智，香港中文大學(深圳)校長徐揚生，2004年諾貝爾化學獎獲得者、香港中文大學(深圳)傑出教授阿龍·切哈諾沃，2013年諾貝爾化學獎獲得者、香港中文大學(深圳)傑出教授阿里耶·瓦謝爾，以及香港中文大學(深圳)理事會成員華云生、楊綱凱、唐杰、涂輝龍、徐晨等和大學主管人員、教授、2000多名新生家長，以及各界嘉賓一起見證了2018級新生入學典禮儀式。

The Chinese University of Hong Kong, Shenzhen Inauguration Ceremony for new students was held on the morning of September 2nd, marking the beginning of a new academic life for a new cohort of 1146 mainland undergraduates, 55 international students, as well as 598 masters and doctoral students.

The ceremony featured the presence of Professor Rocky S. TUAN, Governing Board Chairman of CUHK-Shenzhen and President of CUHK, Professor Yangsheng XU, President of CUHK-Shenzhen, CUHK-Shenzhen Distinguished Professor Aaron CIECHANOVER, Nobel Laureate in Chemistry 2004, and CUHK-Shenzhen Distinguished Professor Arieh WARSHEL, Nobel Laureate in Chemistry 2013. Together with them, the Governing Board members of CUHK-Shenzhen, including Benjamin Wah, Kenneth Young, Jie Tang, Huilong Tu, Chen Xu, administrators and professors of the University, more than 2,000 freshmen and parents, and guests from all walks of life participated in this solemn ceremony for freshmen 2018.

香港中文大學(深圳)理事會主席、香港中文大學校長段崇智教授致辭新生，恭喜2018級新同學正式踏入大學的殿堂，開展人生的新旅程。他為所有新同學提供了三個建議：  
第一是大處着眼，大膽思維；  
第二是尊重不同的觀點，先理解後評論；  
第三是保持興趣，做自己喜欢的事。



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You can achieve  
more than you  
can imagine.

Chairman  
Rocky S. TUAN

香港中文大學(深圳)理事會主席、香港中文大學校長段崇智教授致辭

Professor Rocky S. TUAN, Governing Board Chairman and President of CUHK, delivered an opening remark to express his congratulations to the freshmen for embarking on a new journey at CUHK-Shenzhen. In his speech, Prof. TUAN provided three suggestions for new students:

1. Think boldly;
2. Respect different opinions: understand before making comments;
3. Keep your enthusiasm and enjoy your interests.

Challenge authority  
and love  
what you do.

Nobel Laureate  
Prof. Aaron CIECHANOVER



2004年諾貝爾化學獎得主、  
香港中文大學(深圳)傑出教授  
阿龍·切哈諾沃教授發言

2004年諾貝爾化學獎獲得者、香港中文大學(深圳)傑出教授阿龍·切哈諾沃發表主題演講，告誡學生要學會挑戰權威，要熱愛你所做的東西。切哈諾沃教授認為，高中只是授予信息和知識，教導課本上的內容，但大學是教你如何問問題，如何去依靠自己的力量解決問題。他提出成功的兩個秘訣。第一，在大學應學會挑戰權威。不要害怕去挑戰教授的權威，但是要有禮貌的對待他們，尊重他們。第二是要真正熱愛所做的東西，不要放棄自己的選擇，堅持想法，一定要找到所熱愛的東西。最後他向學生們保證，會跟同學們共同去度過這四年的生活，見證大家的成長。

Distinguished Professor Aaron Ciechanover, Nobel Laureate in Chemistry 2003, delivered a keynote speech for the freshmen, reminding them to learn to challenge authority and love what they do.

Professor Ciechanover believes that high school is a place for students to learn from textbooks while universities allow students to ask questions and rely on their own strength to solve problems.

Two secrets to success were shared in his speech. "First, you should learn to challenge authority in universities. Don't be afraid to challenge the authority of professors, as long as it is conducted in a polite and respectful way. The second is to love what you do, don't give up on your choices, stick to your minds, and find what you really love."

In the end, Professor Ciechanover assured the students that he would spend the four years together with the students and witness the growth of everyone.



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港中大(深圳)校長徐揚生教授感謝所有的新生和家長們選擇了香港中文大學(深圳)，他告誡同學們要好好把握大學時光，在這裡重新出發，創造新的輝煌。

“到大學來是做什么的？”典禮現場，徐校長提出問題，引發思考。在網絡獲取知識十分便捷的情況下，為什麼人們仍然需要到大學里來？徐揚生教授引用香港中文大學新亞書院的創始人錢穆先生在創校時曾提出的三個教育理想：

第一，大學不單為授課學生專業知識，而是要培養學生持續進修的興趣與能力。

第二，大學不僅在指導學生如何讀書與求知，更要教導學生如何做人，使他們懂得借鑒他們的智識服務社會。

第三，青年的做人與做事需要具備一種文化的觀點，青年需了解中國的傳統文化，同時又需站在世界的立場上，需了解人類文化所包涵的大意義及大趨向。

最後，徐揚生教授希望同學們同時也應該具有“共享”和“服務”的意識，要為他人着想，時刻意識到自己作為群體中一份子所應負起的責任，只有這樣，在走向社會之後，才能做一個有擔當的人。

來自世界各地的1800多名本科生、碩士和博士研究生帶著他們的故事相聚於香港中文大學(深圳)，正式成為香港中文大學(深圳)的一員，在神仙湖畔開啓他們的學術之旅。

Professor Yangsheng Xu, President of The Chinese University of Hong Kong, Shenzhen, thanked all new students and their parents for choosing this university. He encouraged new students to seize the time and create new excellence.

At the ceremony, Professor Xu raised a question: Why choose to study at university when the Internet provides easy access to knowledge. He quoted three educational ideas proposed by Mr. Chien Mu, the founder of the New Asia College of The Chinese University of Hong Kong, to answer the question.

First of all, university is not only a place to gain in-depth knowledge of the chosen subject, but to develop interest and enhance ability for future study.

Secondly, university not only teaches students how to learn, but more importantly, how to become a better person who can serve the society with their intelligence.

Thirdly, young people should behave with cultural awareness. It is necessary for them to know about traditional Chinese culture and at the same time hold a global view, so that they can comprehend the great significance and the developing trend of human civilization.

At last, Professor Xu expected that students have the awareness of sharing and serving. To think for others and take responsibility as a member of a group. In this way, they will one day become a responsible citizen.

More than 1800 new students from all over the world officially became members of The Chinese University of Hong Kong, Shenzhen at the ceremony. They will start on an exciting, new journey of academic life.

Be a responsible  
global citizen who is  
concerned about the  
world.

President  
Yangsheng XU



香港中文大學(深圳)校長徐揚生教授致辭

# 大雨中的新生报到注册日

8月29日,广东深圳,倾盆大雨。香港中文大学(深圳)2018新生报到注册日的第一天。来自五湖四海的新生及其家长、亲友,用对新生活的期待与热情,来抵挡这来势汹汹的雨水。卸下沉甸甸的行囊,报到注册、提交档案、领取属于自己的特色学生袍……开始了大学生活的第一步。

在校园注册报到处、学院书院注册处,学生志愿者、老师们耐心指导与解答疑问。在宝安机场、深圳北站、罗湖火车站,接站志愿者冒着大雨,帮忙搬运行李,安排接送车辆。

师生们各司其职,报到注册井然有序。让这些图片,带我们回顾这些瞬间,定格2018级新生们大学生活的开篇。



## Registration Day: New Students Brave the Heavy Rain

Despite the heavy rain, the new students of CUHK-Shenzhen all gathered at the University for the registration and orientation on Aug 29.

Welcomed by the volunteers and faculties, the new students from all over the world officially embarked on the new journey with their expectations towards a new life.

There were also students volunteering at Bao'an Airport, Shenzhen North Railway Station and Luohu Railway station to help with luggage and arrange for pick-up. Their welcoming faces and inclusive spirit helped make all new students feel at home.

Let's look at the pictures and recall all the good memories during the registration.



内容由港中大(深圳)传讯与公共关系处,香港中文大学(深圳)经管学院、理工学院、人文社科学院、逸夫书院、学勤书院、思廷书院、祥波书院,深圳特区报摄影记者刘羽洁提供

- 摄影/管天尧 (2017级理工学院、思廷书院学生)
- 摄影/徐天翼 (2017级理工学院、思廷书院学生)
- 摄影/周伟贤 (2017级经管学院、思廷书院学生)
- 摄影/宋心怡 (2018级人文社科学院、祥波书院学生)
- 摄影/陈鸣 (CPRO)
- 摄影/易榕 (CPRO)
- 摄影/魏子昕 (2018级经管学院、逸夫书院学生)
- 摄影/马天泰 (2017级经管学院、思廷书院学生)
- 摄影/何柳波 (2016级人文社科学院、思廷书院学生)
- 摄影/刘羽洁 (深圳特区报)



香港中文大学(深圳)开学周活动从8月29日新生报到注册开始,到9月2日入学典礼结束,期间包含了迎新的一系列的活动:新生见面会、各个学院的学业指引分享会和学术顾问交流活动、各个书院的迎新破冰活动、迎新下午茶派对、家长见面会、迎新晚宴、入学典礼以及迎新舞会等。希望这些活动的举办,增进同学之间、同学与老师之间的了解,帮助同学们更快地融入港中大(深圳)的大家庭,顺利过渡到新的学习环境。

The Orientation for 2018 CUHK-Shenzhen freshmen began on August 29th with the registration and ended on September 2nd with the inauguration ceremony. It included a series of activities for new students: freshmen meetings, academic guidance sharing sessions and academic advisor exchange activities, ice breaks of various colleges, welcome afternoon tea parties, parent meetings, a welcome dinner, an inauguration ceremony and a welcome dance party. It is hoped that through these activities, students will be able to integrate into the big family of CUHK-Shenzhen quickly.



# 2018 迎新晚宴 青春气息 满屏绽放

Welcoming Dinner for 2018 New Students

中西合璧、青春热舞、师生联动、家长演出，一年一度的香港中文大学（深圳）迎新千人晚宴，在2018年9月1日晚，点燃校园。

今年的“千人宴”继续在港中大（深圳）的礼文楼举行，会场摆满300桌，就餐师生及家长达到3000余人。这场“港式”晚宴延续了往年的中西文化合流的姿态。

First-year students and their families were invited to a Hong-Kong style banquet as a welcome to the CUHK-Shenzhen community. Hosted at the Liwen Building, guests had the opportunity to meet key University leaders, faculty and staff, new classmates and their families.



今年的晚宴还有两位诺奖得主到场。他们分别是2004年诺贝尔化学奖得主阿龙·切哈诺沃（Aaron Ciechanover）、2013年诺贝尔化学奖得主阿里耶·瓦谢尔（Prof. Arieh WARSHEL）。

Two Nobel Laureates in Chemistry, Prof. Aaron Ciechanover and Prof. Arieh Warshel also attended the event. Their presence had significant meaning for students and parents.

精彩而富有创意的节目，瞬间拉近了新生们的距离，或许新的环境和生活让人感到迷茫，但是这里有亦师亦友的老师 and 热情的学长学姐，为新生们答疑解惑，共同前行。

Great food and brilliant performances enhanced the connections among new students. What they are going to experience is a bright university life with warmhearted seniors and helpful faculties.





## 理工学院捷报频传

# 4名本科生于国际上发表学术论文

### Four SSE Undergraduates Publish Papers in International Journals and Conferences

近日，港中大（深圳）理工学院捷报频传，大四学生林圳、蒋书楠、隋昊臣、顾津锦分别于国际会议、国际期刊上发表学术论文。

香港中文大学（深圳）在学术研究方面给予本科生大力支持，提供丰富的科研资源并配备导师进行指导，助力优秀学子亮相国际舞台。

Exciting news came one after another from the School of Science and Engineering as four undergraduate students successfully published academic papers in international conferences and journals.

The Chinese University of Hong Kong, Shenzhen has been supportive to undergraduate students in academic research, providing abundant research resources and assigning each student a supervisor.

## 林圳同学在国际顶级会议 ACSSC 上发表论文

### ACSSC Accepts Paper by SSE Student Lin Zhen

2018年7月，2015级统计科学专业林圳同学的论文 Minimax Design of Constant Modulus MIMO Waveforms 被 IEEE-ACSSC 会议接收，并获邀在该会议上进行演讲。林圳同学是该论文第一作者，导师为我校学术副校长罗智泉教授。

Asilomar 会议 (ACSSC) 专注于信号，系统以及计算机，为该领域最顶级的国际会议之一。该年度会议由 IEEE 信号处理协会 (The IEEE Signal Processing Society) 协办，每年都能汇集来自信号处理与通信系统领域的权威专家和专业人士，提供论坛讨论和分享有关信号处理理论和应用的新想法。通常持续四到五天，相关领域的顶级专家将会展示最新的研究成果。

Minimax Design of Constant Modulus MIMO Waveforms, a paper written by Lin Zhen of The Chinese University of Hong Kong, Shenzhen, was accepted by the IEEE-ACSSC conference in July 2018. Lin is now an undergraduate student majoring in Statistical Science at the School of Science and Engineering, CUHK-Shenzhen and is invited to present his paper at the conference as the first author.

The Asilomar Conference on Signals, Systems, and Computers, one of the top international conferences in the field, is a yearly conference held on the Asilomar conference Grounds in Pacific Grove, CA, USA. As an important conference for data communications, ACSSC brings together leading experts and professionals from the field of signal processing and communication systems every year to provide forums to discuss and share new ideas about theoretical and applied signal processing. The conference usually lasts for four to five days, and top experts in related fields will be presenting recent and novel work at the conference.

### 论文介绍 Abstract

本研究针对大规模 MIMO 系统，聚焦于设计具有低自、互相关性的 MIMO 波形和失配（或匹配）接收滤波器。所面临数学难点不仅在于优化问题规模大（超过十万级优化变量数，超过一百万个非线性约束条件），同时为保证所设计的 MIMO 波形组之间的低相关性，所求解的优化问题为高度非线性且非光滑的非凸优化问题。为同时保证求解过程的计算效率和 MIMO 波形的低相关性性能，本研究基于原始-对偶（Primal-Dual）方法设计了一种并行计算的迭代算法。每次迭代过程所涉及的子问题不仅求解计算复杂度低同时计算过程可并行化，大大提高了波形设计的整体计算效率。数值仿真实验表明所设计的波形相较于现有基于  $l_2$  范数的方法能进一步降低峰值旁瓣 4-5dB。

Multiple-input multiple-output (MIMO) systems, as a major research direction in the field of modern radio signal processing, have many important applications in radar, active sensing, and mobile communication. The performance of a MIMO system, such as location accuracy, detection performance, and parameter identifiability, is known to be directly related to the good correlation property of its signal waveforms. In particular, it is desirable to have low auto- and cross-correlations among the designed signal waveforms which should be additionally constant modulus. This paper considers the joint optimization of constant modulus waveforms and mismatched (or matched) receive filters to suppress the auto- and cross-correlations using the minimax ( $l_\infty$ ) design criterion. For practical waveform length and system size, the waveform design problem becomes quite challenging due to the large problem size (more than  $10^5$  unimodular complex variables and  $10^6$  nonlinear constraints). In addition to the large size, this problem is nonconvex, nonsmooth, and as such, can not be handled effectively by the existing waveform design algorithms or off-the-shelf optimization tools. This paper develops an efficient primal-dual type algorithm with low per-iteration complexity to solve this problem. Numerical comparison shows that the waveforms based on the minimax design outperform those obtained from the existing  $l_2$  norm design by 4-5 dBs in terms of peak sidelobe levels (PSL).

### 作者档案 About the Author

#### 林圳

学院：理工学院  
书院：逸夫书院  
专业：统计科学  
高中：深圳实验学校高中部

个人荣誉：林圳同学曾多次获得学院 Dean's List Award (院长嘉许)、一等学业奖学金、优秀学生奖以及逸夫书院 Master's List Award (院长嘉许) 等，并多次担任理工学院 Undergraduate Student Teaching Fellows (本科生教学助理)，同时还在深圳市大数据研究院学习和参与研究。

Lin Zhen  
School: SSE  
College: Shaw College  
Major: Statistical Science  
High School: Shenzhen Experimental School (Senior High School Department)

Lin Zhen has received Dean's List Awards several times, first-class academic scholarships, Outstanding Student Award, and the Master's List Award of Shaw College. He has been elected as Undergraduate Student Teaching Fellow for several times and participated in research at the Shenzhen Research Institute of Big Data.

## 蒋书楠同学在 IEEE-Global SIP 会议上发表论文

### Paper by SSE Student Jiang Shunan Accepted by IEEE-Global SIP



"Optimal Asynchronous Multi-Sensor Registration in 3 Dimensions", a paper written by Jiang Shunan from CUHK-Shenzhen, was accepted by the IEEE-Global SIP conference. The first author Jiang is a senior student majoring in Computer Science and Engineering at the School of Science and Engineering, The Chinese University of Hong Kong, Shenzhen. The paper was finished under the guidance of Vice President Prof. Tom Luo.

IEEE-Global SIP conference focuses on signal and information processing with an emphasis on up-and-coming signal processing themes. The conference features world-class plenary speeches, distinguished symposium talks, tutorials, exhibits, oral and poster sessions, and panels. The conference features world-class plenary speeches, distinguished symposium talks, tutorials, exhibits, oral and poster sessions, and panels.

近日，2015级计算机科学与技术专业蒋书楠同学的论文 Optimal Asynchronous Multi-Sensor Registration in 3 Dimensions 被 IEEE-Global SIP 会议接收。蒋书楠同学是该论文第一作者，导师为罗智泉教授。

IEEE-Global SIP 会议专注于信号和信息处理，重点是新兴的信号处理主题。IEEE 是国际性的电子技术与信息科学工程师的协会，为目前全球最大的非营利性专业技术学会。会议包括世界级的大会演讲，杰出的研讨会讲座、教学、展览、口头和海报会议以及小组讨论。

### 论文介绍 Paper's Introduction

该论文提出用 Semidefinite Relaxation (半正定松弛) 和 Block Coordinate Descent (块坐标下降) 去解决 Sensor Registration (传感器配准) 的问题。

The paper proposes to solve the problem of sensor registration with Semidefinite Relaxation and Block Coordinate Descent.

### 作者档案 About the Author

#### 蒋书楠

学院：理工学院  
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所在实验室：深圳市大数据研究院  
毕业高中：江西省九江一中

个人荣誉：曾荣获国家奖学金、我校学业奖学金一等奖、理工学院 Dean's List Award (院长嘉许)、逸夫书院 Master's List Award (院长嘉许)。2017 年开始在大数据研究院学习和参与研究，同时也是我校学生团队“日不落工作室”的创始人之一。在资讯科技服务处 (ITSO) 老师们的大力支持下，曾与团队协助研发建设的微信校园卡，并荣获 2017 年 9 月腾讯互联网+校园影响力排行榜“数字化明星”称号。

Jiang Shunan  
School: SSE  
College: Shaw College  
Major: Computer Science and Engineering  
Laboratory: Shenzhen Research Institute of Big Data  
High School: Jiujiang No. 1 Middle School, Jiangxi Province

Jiang has won the National Scholarship, the First Prize of the Academic Scholarship of the University, the Dean's List Award of SSE, and the Master's List Award of the Shaw College. In 2017, she began to participate in research at SRIBD, and was one of the founders of the Ribuluo Development Studio, CUHK-Shenzhen. With the support of IT Services office, her team has developed the WeChat Campus Card and won the "Digital Star" title in the Tencent Internet + Campus Impact Rankings in September 2017.

## 隋昊臣同学在 Biomolecules 期刊上发表论文

SSE Student Sui Haochen Publish Paper in Biomolecules



近日, 2015 级统计学与数据科学专业隋昊臣同学与朱宝亭教授的学术论文 Stimulation of the Production of Prostaglandin E2 by Ethyl Gallate, a Natural Phenolic Compound Richly Contained in Longan 在 Biomolecules 期刊上成功发表。

Biomolecules 生物分子 (ISSN 2218-273X) 是一本国际同行评审的开放获取期刊, 专注于生物物质及其生物功能、结构、与其他分子的相互作用, 以及它们的微环境以及生物系统。期刊目前位于生物化学与分子生物领域 Q1 区, 影响因子为 4.6。

Professor Zhu Baoting and SSE student Sui Haochen (Class 2019), successfully published an academic paper in the journal Biomolecules. Sui, the co-first author of this paper, is a fourth-year student at SSE, CUHK-Shenzhen, majoring in Statistics and Data Science.

Biomolecules (ISSN 2218-273X) is an international peer-reviewed open-access journal that focuses on biological materials and their biological functions, structures, interactions with other molecules, and their microenvironments and biological systems. The journal is currently located in the Q1 area of biochemistry and molecular biology with an impact factor of 4.6.

### 论文摘要 Abstract

本文通过结合生物实验与计算模拟的方式, 探究了环氧化酶 (COX) 蛋白中的过氧化酶催化和再激活的分子机理, 并首次发现没食子酸乙酯类小分子在进入下图所示的 COX 蛋白位点之后, 可以通过电子转移等机理产生药效作用, 进而促进相关蛋白酶的再次活化并有效防止其发生自杀失活现象。因为没食子酸乙酯是龙眼中的主要功能化合物之一, 所以本研究为龙眼具有“生火”的药理作用提供了分子机理和解释。另外, 本文的发现对设计以 COX 为靶点的新型药物具有指导意义和参考价值。

This paper combines biological experiments with computational simulations to discover the molecular mechanism of peroxidase catalysis and reactivation in cyclooxygenase (COX) proteins. For the first time, it was found that after entering the COX protein locus, the small molecule of ethyl gallate (shown in the figure below) can produce pharmacodynamic effects through mechanisms such as the electron transfer. In turn, it promotes the reactivation of related proteases and effectively prevents suicide inactivation of COX enzymes. Ethyl gallate is one of the main functional compounds in longan, Therefore this study provides a molecular mechanism and explanation for the pharmacological effect of longan. In addition, the findings of this paper have guiding significance for designing new drugs targeting COX enzymes.

### 作者档案 About the Author

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个人荣誉: 隋昊臣同学是本论文的共同第一作者, 于大二下学期进入朱宝亭教授的药物开发实验室。目前, 他已有一篇一作论文发表, 一篇一作论文被接收。他的研究领域包括数据科学, 机器学习, 计算生物, 量子化学以及量化金融。

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Sui entered the drug development laboratory of Professor Baoting Zhu in the second semester of sophomore year. His research interests include data science, machine learning, computational biology, quantum chemistry, and quantitative finance.

## 顾津锦同学在计算机顶级会议 ECCV 2018 上发表论文

Paper Published In ECCV 2018 by SSE Student Gu Jinjin

2015 级计算机科学与技术专业顾津锦同学与商汤研究院和香港中文大学多媒体实验室团队的学术论文 ESRGAN: Enhanced Super-Resolution Generative Adversarial Networks, 在 2018 欧洲计算机视觉大会 (ECCV 2018) 上发表。同时, 该论文提出的基于生成对抗网络的增强超分辨率方法 (ESRGAN) 在 ECCV2018 的 PIRM-SR 比赛中获得了最高的感知评分, 取得了第一名。

ECCV (European Conference on Computer Vision), 中文全称欧洲计算机视觉国际会议, 每年论文接受率为 25-30% 左右, 每次会议在全球范围会收录论文 300 篇左右, 收录论文的主要来源是来自于美国、欧洲等顶级实验室及研究所, 中国大陆的收录论文数量在 10-20 篇之间。2018 欧洲计算机视觉大会 (ECCV 2018) 在德国慕尼黑召开, ECCV 两年举办一次, 与 CVPR、ICCV 共称为计算机视觉领域三大顶级学术会议。

Recently, Gu Jinjin, a senior SSE student from The Chinese University of Hong Kong, Shenzhen and his team at SenseTime Research and The CUHK Multimedia Laboratory published a paper in ECCV 2018, a top conference of computer science. This paper introduces the concept of the Enhanced Super-Resolution Generative Adversarial Networks (ESRGAN). What's even more exciting is that the ESRGAN model also won the first place with the best perceptual score in the PIRM2018-SR Challenge.

ECCV stands for the European Conference on Computer Vision with an annual paper acceptance rate of about 25-30%. Each year, ECCV catalogues about 300 papers worldwide, most of which come from the top laboratories and research institutes in the US and Europe, and about 10 to 20 of them are from China. The 2018 European Conference on Computer Vision (ECCV 2018) was held in Munich, Germany. Held biannually, The ECCV is known as one of the top three academic conferences together with CVPR and ICCV in the field of computer vision.

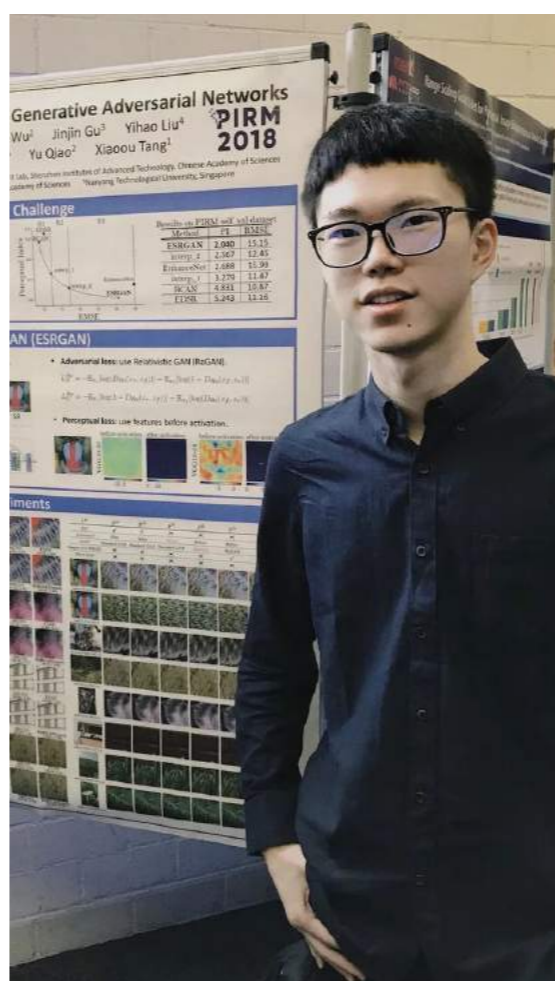
### 论文摘要 Abstract

论文题目:

ESRGAN: Enhanced Super-Resolution Generative Adversarial Networks

基于生成对抗网络的图像超分辨率模型 SRGAN 能够生成更多的纹理细节。然而, 它恢复出来的纹理往往不够自然, 也常伴随着一些噪声。为了进一步增强图像超分辨率的视觉效果, 本文深入研究并改进了 SRGAN 的三个关键部分——网络结构、对抗损失函数和感知损失函数, 提出了一个增强的 ESRGAN 模型。具体地, 本文引入了一个新网络结构单元 RRDB (Residual-in-Residual Dense Block); 借鉴了相对生成对抗网络 (relativistic GAN) 让判别器预测相对的真实度而不是绝对的值; 还使用了激活前的具有更强监督信息的特征表达来约束感知损失函数。得益于以上的改进, 本文提出的 ESRGAN 模型能够恢复更加真实自然的纹理, 取得比之前的 SRGAN 模型更好的视觉效果。ESRGAN 模型同时在 ECCV2018 的 PIRM-SR 比赛中获得了最好的感知评分, 取得了第一名。

The Super-Resolution Generative Adversarial Network (SRGAN) is a seminal work that is capable of generating realistic textures during single image super-resolution. However, the hallucinated details are often accompanied with unpleasant artifacts. To further enhance the visual quality, we thoroughly study three key components of SRGAN - network architecture, adversarial loss and perceptual loss, and improve each of them to derive an Enhanced SRGAN (ESRGAN). In particular, we introduce the Residual-in-Residual Dense Block (RRDB) without batch normalization as the basic network building unit. Moreover, we borrow the idea from relativistic GAN to let the discriminator predict relative realism instead of the absolute value. Finally, we improve the perceptual loss by using the features before activation, which could provide stronger supervision for brightness consistency and texture recovery. Benefiting from these improvements, the proposed ESRGAN achieves consistently better visual quality with more realistic and natural textures than SRGAN and won the first place with the best perceptual score in the PIRM 2018-SR Challenge.



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个人荣誉: 顾津锦是港中大(深圳)能源互联网实验室的研究助理, 商汤集团研究院的研究实习生。同时也是香港中文大学(深圳)计算机协会的创始人之一。在此之前, 他曾是上海交通大学图像通信与网络工程研究所的研究助理。他的研究兴趣主要在于机器学习的理论和应用, 包括表征学习, 流形学习和信息几何在机器学习中的应用。他也对机器学习方法在计算机视觉和工业领域的应用感兴趣, 包括基于学习的图像和视频处理, 图像和 3D 分割以及工业系统的控制和感知问题。

Gu Jinjin  
School: SSE  
College: Shaw College  
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High School: Tanggu No. 1 Middle School

Gu Jinjin is currently a senior student studying in the School of Science and Engineering, The Chinese University of Hong Kong, Shenzhen. He is a research assistant of the Lab of Energy Internet and a research intern at the SenseTime Research. He is also one of the founders of the CUHK-Shenzhen Computer Association. Before that, he was a research assistant at the Institute of Image Communication and Network Engineering in Shanghai Jiao Tong University. His research interests lie primarily in the theory and application of machine learning, including the representation learning, manifold learning and the application of information geometry in machine learning. He is also interested in the application of machine learning approaches in computer vision, including learning-based image and video processing, image and 3D segmentation and super resolution perception and manipulation of industrial sensor.

# 港中大(深圳)携手斯坦福大学打造首届科技创新论坛

9月10日至9月18日,香港中文大学(深圳)携手斯坦福大学,举办了首届科技创新论坛。为期一周的活动邀请到多名世界级院士、教授共聚港中大(深圳)校园,举行系列讲座和学术研讨会。此外,港中大(深圳)与斯坦福大学各派出14名优秀学生代表,组成6个创新小组,通过合作完成项目开展技术创新和交流活动。

论坛期间,港中大(深圳)集中优势资源为受邀者提供了一系列的体验活动,包括论坛峰会,学术讲座与学术讨论会,华强北电子市场调研,华为、腾讯、大疆以及合力泰等知名企业参观,体验香港中文大学(深圳)通识课程。同时,6组学生队伍也有固定的时间开展项目研究,通过与导师多轮讨论修订,完成作品模型,并最终进行项目展示。



Maker Lab Inauguration Ceremony

## 两校共同成立 Maker Lab 重新定义创新工匠精神

本次论坛峰会以创新工匠文化为主题,探讨了在信息技术高速发展的今天,该如何重新定义工匠精神,如何将这种文化融入高校等议题。现场还举行了两校合作的一个重要项目——Maker Lab(创新作坊)的揭牌仪式。

香港中文大学(深圳)学术副校长罗智泉教授指出,优秀的大学应该鼓励创新,勇于突破,学生应该要为更重要的、对社会有用的事情做准备而不仅仅是应付考试。我们希望能提出创新文化,每一个人都需要胸怀宽广,充满热情。

本次论坛发起人、创新作坊负责人、香港中文大学(深圳)理工学院执行院长崔曙光教授表示,如何把学校建成有特点的国际一流研究型大学,一直是港中大(深圳)教育者思考的话题。纵观斯坦福大学的发展历史,斯坦福能成为世界上著名的且有显著特点的大学,有一大原因是它位于世界著名高科技园区硅谷,与硅谷有很强的互生互动。而港中大(深圳)的所在地深圳,最强的特点是创新工匠精神,希望 Maker Lab 的成立能充分利用深圳本地的条件与斯坦福大学成功的经验,在港中大(深圳)校园内推广创新工匠文化,也希望能两所高校的学生提供“零门槛”的创新实践平台,锻炼学生动手动脑能力,让工匠精神融入校园。“工匠精神不仅是指用心设计或者创作一样东西,也包

含着力促成美好的、有意义的事情发生,并且能够对社会产生正面影响。”

## 斯坦福学生活动观感: 深圳创新环境优越 能把想法迅速转化成产品

论坛期间,由斯坦福大学与港中大(深圳)共28名学生组成的创新小组成员有特定任务:在一周内,每天利用2至3小时的时间,用在华强北购买的材料和已有设备创造出一项创意作品。

斯坦福大学学生何子扬认为:“港中大(深圳)的同学们都有很强烈的动手欲望与动手能力,而且他们也提前做好项目准备,大大提高了我们的合作效率。这次的经历让我们接触到了课堂上接触不到的东西,对我们来说很珍贵。大家还感叹深圳的创新环境优越,更对港中大(深圳)的开放态度留下了深刻印象。”

香港中文大学(深圳)学生李英儒也认为本次活动受益匪浅:“在这次斯坦福论坛举办的讲座中,Goldsmith教授把最近的深度学习方法引入到了通信的经典问题,从基础上探索了深度学习在什么情况下能够超越传统理论,这不仅拓宽了深度学习的应用边界,也从通信和信息理论的角度为理解深度学习黑盒子找到了一个新的方向,期待有更多不同领域这样的大师讲座。”

为期一周的活动结束后,每个小组的项目依然会持续演进,进一步扩大长期合作。同时,活动将为新一代提供一个更高水准的舞台,让参与者不仅能得到国际上顶尖的创新培训,也有机会在深圳实现创业梦想。

此次科技创新论坛旨在发挥香港中文大学(深圳)和斯坦福大学两所国际型创新性高校的顶尖优势,培训及指导新一代年轻的全球领袖、企业家及工程师在深圳的创新创业之路,并通过深圳属地优势连接起两所高校的创新资源,以 Maker Lab(创新作坊)为载体长期持续下去。主办方香港中文大学(深圳)和斯坦福大学计划将此活动打造成一个国际性的年度盛会,借助两所高校的平台和优势争取更多中外合作机会。



Students Complete Projects in Groups

## First Annual Stanford-CUHKSZ Technology Innovation Forum Held



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The Chinese University of Hong Kong, Shenzhen and Stanford University held the first Stanford-CUHKSZ Technology Innovation Forum from September 10th to 18th, featuring a number of world-class academicians and professors and a series of lectures and academic seminars. The two universities each sent 14 outstanding student representatives to form six innovative groups to jointly complete projects and carry out technological innovation.

CUHK-Shenzhen.

Li Yingru, student from The Chinese University of Hong Kong, Shenzhen, said the forum benefited him a lot, especially the lecture provided by Prof. Goldsmith who used the recent deep-learning method to explain classic issues of communication.

"It broadens the realm that deep-learning method can be applied to, and also points to a new direction for the study of deep learning. I look forward to more lectures like this that can open my mind."

The Stanford-CUHKSZ Technology Innovation Forum aims to leverage the resources and advantages of the two internationally innovative universities to train and guide the new generation of young global leaders, entrepreneurs and engineers in Shenzhen. The two universities will be connected for a long-term cooperation, with the Maker Lab being the carrier. The organizers of The Chinese University of Hong Kong, Shenzhen and Stanford University plan to make this forum an annual event to seek more opportunities for Sino-foreign cooperation.

## Stanford-CUHKSZ Maker Lab Established to Redefine the Spirit of Craftsmanship

With the theme of Innovative Craftsmanship Culture, this forum explored to redefine the spirit of craftsmanship and to integrate this culture into universities. The inauguration ceremony of Maker Lab, a key innovation workshop project between the two universities, was also held during the summit.

Professor Tom Luo, the Vice President of The Chinese University of Hong Kong, Shenzhen, pointed out that excellent universities should encourage innovation and be brave in making breakthroughs, while students should prepare for more important and pragmatic needs of the society rather than just for exams.

Professor Cui Shuguang, initiator of the forum, head of the innovation workshop, and Executive Dean of SSE, said that how to build CUHK-Shenzhen into a world-class research university with distinctions is always the most important mission for CUHK-Shenzhen's educators. Looking back to the history of Stanford University, the success of Stanford University is partly owing to its location—the renowned high-tech park Silicon Valley. And Stanford University has strong interaction with the Silicon Valley. As for CUHK-Shenzhen, it is located in Shenzhen, a city characterized by innovative craftsmanship. It is hoped that the Maker Lab will make full use of the local resources of Shenzhen and the experience from Stanford University to promote innovation at CUHK-Shenzhen.

## Stanford Students: Ideas Can be Quickly Turned into Products the Innovative Environment of Shenzhen

During the forum, 28 students from Stanford University and CUHK-Shenzhen worked together, spending two to three hours a day, to utilize materials and existing equipments purchased in Huaqiangbei for creative assignments.

Stanford student Zhiyang He said: I feel that students at CUHK-Shenzhen have a strong desire and competence for doing things by hand. And they are fully prepared ahead of time, thus improving the efficiency. The trips gave us an opportunity to experience what we couldn't do in class, which is precious. We are also amazed by the good innovation environment in Shenzhen and the open attitude of





2018 Smart City Datathon 获奖选手与评委合影 图 / 梁伟荣 (香港经济日报)

# 我校大二学生荣获 Smart City Datathon 比赛冠军

香港中文大学(深圳)经管学院李芝临、理工学院王少宇和刘杰组成的代表队 Cat Eye Siblings 在 2018 年香港中文大学 Smart City Datathon 比赛中, 以优异表现夺得冠军, 获得奖金五万元港币。来自浙江大学的大二学生组成的代表队获得亚军, 来自香港大学的大四学生组成的代表队获得季军, 由香港中文大学和香港城市大学组成的代表队获得荣誉奖。此次赛事吸引了来自清华大学、北京大学、上海交通大学、浙江大学、国立台湾大学、新加坡国立大学和韩国汉阳大学等 23 所亚洲知名学府的学生参加。

今年是香港中文大学(深圳)本科生第二次参加由香港中文大学举办的 Smart City Datathon 比赛, 2017 年赛事冠军由香港大学代表队获得。2017 年, 香港中文大学(深圳)本科生首次参加 Smart City Datathon 比赛取得了第六名的成绩。

Smart City Datathon 由香港中文大学亚洲供应链及物流学院(AISCL)发起。比赛欢迎来自亚洲的包括本科生和研究生在内的所有全日制大学生参加, 并且鼓励来自不同专业背景的选手组队参赛。比赛中, 参赛团队需要通过航班时刻表、实际飞行运动数据和其他政府公开数据等一系列数据, 以城市创造实际价值为目标, 在不间断 36 小时中开发创新模型、服务及系统。比赛为参赛者提供了与来自亚洲其他城市杰出人才交流、相互学习的机会, 同时可以很好地锻炼参赛者团队合作、解决冲突、时间管理、公开演讲和创新创造的能力。

## CUHK-Shenzhen Sophomore Students Win Smart City Datathon Championship

Team Cat Eye Siblings, composed of CUHK-Shenzhen students Li Zhilin from the School of Management and Economics (SME), Wang Shaoyu and Liu Jie from the School of Science and Engineering (SSE), won the championship with outstanding performance in the 2018 Smart City Datathon and won a prize of HK\$50,000. The second prize went to the Zhejiang University team, while the third prize was awarded to The University of Hong Kong team.

Students from 23 prestigious universities in Asia participated in this competition, including Tsinghua University, Peking University, Shanghai Jiaotong University, Zhejiang University, National Taiwan University, National University of Singapore and Hanyang University, etc.

In 2017, the CUHK-Shenzhen team, which competed for the first time,

won the honorary award.

Smart City Datathon was initiated by the Asian Institute of Supply Chains & Logistics (AISCL) of The Chinese University of Hong Kong. Full-time undergraduate and postgraduate students from top Asian universities are welcome to participate in the Datathon. The competition also encourages players from different professional backgrounds to team up for the competition. During the 36-hour Datathon, participants are required to develop innovative models, services and systems according to the provided aviation data including flight schedule, flight status and airport information to create values for the city. Providing a platform for interaction and mutual learning, the Datathon is an excellent opportunity for elites in the region to unleash their talents such as analytic skills, conflict resolution, time management, public speech and creativity.



从左至右: 香港中文大学(深圳)大二本科生李芝临(经管学院)、王少宇(理工学院)及刘杰(理工学院)



香港中文大学(深圳)校长徐扬生致辞

# 我校成立未来智联网络研究院 融合智能与网联 建设国际一流科研平台

10月17日, 未来智联网络研究院(FNii) 成立仪式在香港中文大学(深圳)隆重举行。该研究院院长由理工学院执行院长崔曙光教授担任, 美国工程院院士、中国工程院外籍院士 Stephen Boyd 教授和美国工程院院士谢雅正(David Tse) 教授担任共同院长。

出席成立仪式的嘉宾有中国工程院院士、香港中文大学(深圳)校长徐扬生, 中国工程院院士于全, 中国工程院院士何友, 加拿大皇家科学院院士、滑铁卢大学教授沈学民, 加拿大皇家科学院院士、香港中文大学(深圳)副校长罗智泉, 国家自然科学基金委信息学部常务副主任张兆田, 龙岗区委区长戴斌, 香港中文大学(深圳)协理副校长、科研处处长李学金, 香港中文大学(深圳)数据与运筹科学研究院共同院长戴建岗教授, 香港中文大学(深圳)黄凯教授和张大鹏教授等。此外, 来自产业界的京东集团 AI 研究院常务副院长何晓冬博士, 罗湖医院集团党委书记吴松教授, 以及国内外 40 多名著名教授学者共同见证了研究院的成立。

香港中文大学(深圳)校长徐扬生教授在致辞中表示, 作为新一轮产业变革的核心驱动力, 人工智能正在促进人类社会迈入万物互联的智能智慧新世界。毫无疑问, 智能和网联融合所产生的新技术革命将会对世界经济、社会进步和人类生活产生极其深刻的影响, 人类将由此进入一个全新的“智慧革命”时代。

香港中文大学(深圳)副校长罗智泉教授介绍了学校的学术概况。香港中文大学(深圳)立足于国际化办学, 教学和科研同步发展。学校既注重本科教育, 广泛开设联合培养项目, 也致力于将世界高新技术与国家及地区产业发展相结合, 做到科学研究“接地气”。随着多个研究院和新学院的逐步成立, 未来学校的学术发展将登上新的台阶。

联接增强群体智能, 智能增强联接效率, 智能和联接的融合是未来信息科技发展的方向。崔曙光院长在采访中指出, 未来智能网络研究院将结合港中大(深圳)在智能、网络、系统等方面的资源, 联合国内、国际力量, 为大学、为深圳打造一个世界一流的科研平台。同时, 研究院对智能、网联相融合的探索迎合了深圳市的产业需求, 将助推深圳市信息产业的发展。

研究院正在承担广东省相关项目, 成立了港中大(深圳)-京东集团人工智能联合实验室、港中大(深圳)-罗湖医院集团医疗大数据联合实验室、深圳市大数据与人工智能重点实验室等。依托这些基础, 研究院的长远目标是建设成为由 30 个科学家、20 个博士后、100 个博士研究生组成的高水平队伍, 专注于人机接口、自



揭牌仪式(从左至右: 崔曙光教授、中国工程院院士于全教授、加拿大皇家科学院院士、滑铁卢大学教授沈学民教授、徐扬生教授、龙岗区委区长戴斌、中国工程院院士何友教授、国家自然科学基金委信息学部常务副主任张兆田、罗智泉教授)

然语言处理、数据驱动及智能核心的未来信息网络、分布式智能系统、智能医患联接、智慧医院应用等方向的科学研究。

研究院成立当天, “未来智联网络论坛”也同步举行。国内外多位著名院士、专家共同探讨了智能和网联两大主题的融合, 为研究院的发展出谋划策。京东 AI 研究院常务副院长何晓冬博士、香港理工大学曹建农教授、清华大学的李志升教授分别以“深度学习及自然语言理解”、“物联网与大数据”和“面向超可靠低时延通信的移动增强边缘智能技术”为主题做了精彩的学术报告, 与会学者们还对智能和网联涉及的关键科学问题进行了深入讨论。

## The Future Network of Intelligence Institute Set up at CUHK-Shenzhen

An inauguration ceremony of a new research institute, the Future Network of Intelligence Institute (FNii), was held at The Chinese University of Hong Kong, Shenzhen on Oct 17, 2018.

The new institute aims to become an international research platform for studies on the future network of intelligence, according to the university.

Professor Cui Shuguang, Executive Dean of the university's School of Science and Engineering, has been named Dean of FNii, while Professor Stephen Boyd, a member of the National Academy of Engineering (NAE) in the United States and Professor David Tse, also an NAE member, have been appointed Co-dean of the new institute.

Apart from university directors and academics, several officials from local government as well as artificial intelligence (AI) experts from home and abroad also attended this inauguration ceremony.

Professor Xu Yangsheng, president of CUHK-Shenzhen, said at the ceremony that the AI industry is urging people to enter a new smart world where everything connects with intelligence.

The president highlighted that the combination of intelligence and networks will undoubtedly boost the new technological revolution, which will have a huge impact on the world economy, social development and human life.

Professor Luo Zhiqian, Vice President of the University, gave an overview of the University's academic development. He firmly believed that the establishment of new institutes and schools will lift the University to a new level.

"Networks help to enhance collective intelligence, while intelligence increases the efficiency of networking" said Professor Cui. In his eyes, the convergence of intelligence and networks is the future direction of information technology.

The Dean pledged that the new research institute will integrate resources in the fields of intelligence, networks and systems, among others. FNii also aims to provide research to fuel Shenzhen's industrial development, said Cui.

So far, the institute has worked with JD on an AI project and with the Luohu Hospital Group on establishing a joint lab for medicine big data. FNii's long-term goal is to build a team of 30 scientists, 20 postdoctoral fellows and 100 doctoral researchers to research man-machine interfaces, natural language processing, and data-driven programming, as well as some other smart technologies.

A forum themed "Future Network of Intelligence" was also held on the same day. Academicians and experts discussed topics including Internet of Things, big data, deep learning and natural language processing at the forum.

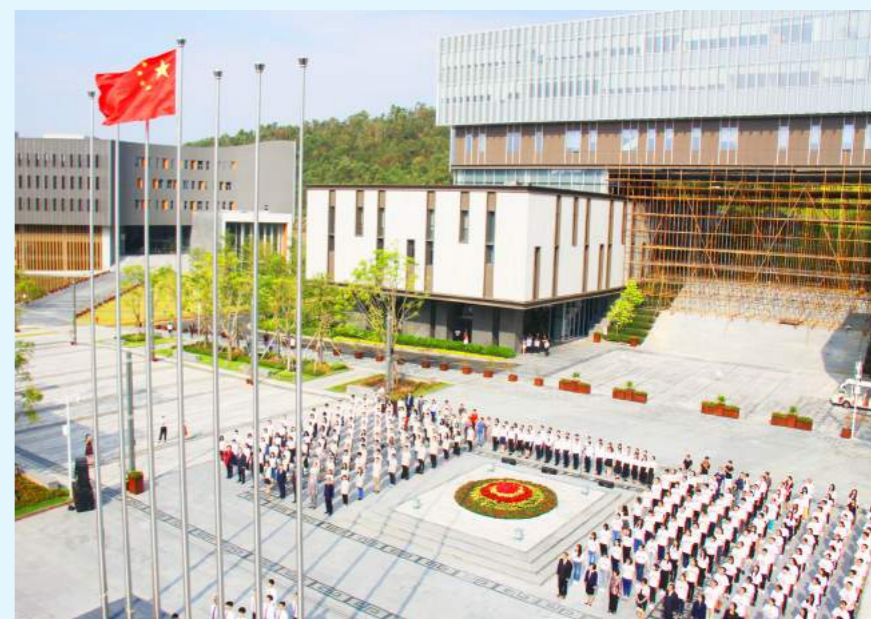
## 我校举行庆祝国庆 69 周年升旗仪式



喜迎祖国 69 周年华诞，2018 年 10 月 1 日上午 9 时，香港中文大学（深圳）国庆升旗仪式在校园中央大道举行。

校长徐扬生教授等大学主管人员，各学院、书院、研究院和部门的教师代表，以及来自逸夫、学勤、思廷和祥波四个书院的同学们参加了本次升旗仪式。

由我校十名同学组成的仪仗队英姿飒爽地走向升旗台，五星红旗伴着朝阳冉冉升起。师生合唱团凝望着国旗动情地唱着国歌，歌声在风中飘扬。国旗升起后，著名歌剧表演艺术家田立老师为观礼师生带来大气磅礴的《我爱你，中国》和温婉悠扬的《多情的土地》。香港中文大学（深圳）师生在蓝天白云下共同祝福伟大的祖国生日快乐。



## Flag-raising Ceremony Held at CUHK-Shenzhen to Celebrate 69th Anniversary of Founding of PRC



A ceremony for raising the National Flag was held at 9:00 am on October 1, 2018 at the central avenue of The Chinese University of Hong Kong, Shenzhen to celebrate the 69th anniversary of the founding of the People's Republic of China (PRC).

President Xu Yangsheng and other members of the governing board, teachers from various schools, colleges, research institutes and departments of the University, along with students from Shaw, Diligentia, Muse, and Harmonia Colleges attended the event.

The campus choir performed the National Anthem of the People's Republic of China while the national flag was raising. Famous opera performer Tian Li presented at the ceremony and sang "I love you, China" and "Lovely Land" to celebrate the birthday of PRC with students and teachers of CUHK-Shenzhen.

摄影 / 魏子昕 (2016 级理工学院、学勤书院)  
摄影 / 宋心怡 (2017 级经管学院、思廷书院)  
摄影 / 徐天翼 (2018 级经管学院、祥波书院)



## 港中大（深圳）中秋·家校·庆主题晚会



9 月 24 日晚，2018 年“中秋·家校·庆”主题晚会在学生中心举行。香港中文大学（深圳）校长徐扬生教授、学术副校长罗智泉教授、外事及学生事务副校长朱世平教授、大学相关部门负责人、老师们与同学们共度中秋之夜。

中秋晚会由逸夫书院、祥波书院、学勤书院和思廷书院的同学们轮番为大家带来精彩表演。活动现场还设置了大一新生与家人的视频连线环节，身虽隔千里，心却零距离。

## CUHK-Shenzhen Moon Festival - We are a Family

On September 24, 2018, "CUHK-Shenzhen Moon Festival - We are a Family" was held at the Student Centre. Professor Xu Yangsheng, President of CUHK-Shenzhen, Professor Luo Zhiquan, Vice-President of CUHK-Shenzhen, and Professor Zhu Shiping, Vice President of CUHK-Shenzhen presented at the event to celebrate the Moon Festival with teachers and students.

Students from Shaw College, Harmonia College, Diligentia College and Muse College participated to provide excellent performances for the audience. Video connections were made for new students to meet their family thousand miles away, so they can share their happiness and make wishes on such a special occasion.



摄影 / 陈雨馨 (2016 级理工学院、学勤书院) 摄影 / 马天葵 (2017 级经管学院、思廷书院)  
摄影 / 宋心怡 (2018 级经管学院、祥波书院) 摄影 / 宋心怡 (2018 级经管学院、祥波书院)

## 我校举行首届梧桐学者论坛 48 名优秀青年学者受邀共谋发展 The First Wutong Scholars Forum Held at CUHK-Shenzhen

8 月 20 日，香港中文大学（深圳）举行首届梧桐学者论坛，来自美国哈佛大学、美国西北大学、英国帝国理工学院、英国伯明翰大学、英国利物浦大学、瑞士洛桑联邦理工学院、瑞士苏黎世联邦理工学院、悉尼科技大学、新加坡国立大学、南洋理工大学、香港大学、香港中文大学、香港科技大学等世界知名学府的 48 名优秀青年学者共聚梧桐山下，通过专题报告、学术研讨、参观座谈等形式，围绕国际科学前沿热点研究领域，探讨学术，共谋发展。

本届论坛共收到来自世界各地约 400 位青年学者的报名，经筛选后，48 位优秀青年学者受邀参会。据悉，这些青年学者皆已取得海内外知名大学博士学位，并在自然科学、工程技术、人文科学等研究领域取得显著成绩。本次论坛通过两天的活动，让高校与学者之间互相了解，学者有机会近距离了解香港中文大学（深圳）的办学目标和发展愿景，咨询大学的人才政策及待遇；大学则通过分论坛全面考核参会学者的专业水平。表现优秀的青年学者，将有机会获聘香港中文大学（深圳），共建这所年轻的高校。

On August 20th, The Chinese University of Hong Kong, Shenzhen held the First Wutong Scholars Forum, featuring 48 outstanding young scholars who explored the academic world and sought common development through academic seminars and lectures. These young scholars come from world-renowned universities, including Harvard University, Northwestern University, Imperial College, Birmingham University, University of Liverpool, The Ecole Polytechnic Federale de Lausanne in Switzerland, Swiss Federal Institute of Technology Zurich, University of Technology Sydney, National University of Singapore, Nanyang Technological University, The university of Hong Kong, The Chinese University of Hong Kong, Hong Kong University of Science and Technology and so on.

The forum received around 400 applications from young scholars all over the world. A total of 48 outstanding young scholars were shortlisted to participate in this event. These young scholars have obtained doctoral degrees from well-known universities at home and abroad, and have made remarkable achievements in natural

sciences, engineering technology, humanities and other fields. In this two-day forum, scholars got a closer look at the The Chinese University of Hong Kong, Shenzhen and understood its relevant talent policies. The University, on the other hand, comprehensively assessed the professional level of participating scholars through a one-to-one forum. Young scholars who have performed well in the one-to-one forum will have the opportunity to be hired by the University.

