From: Russell, Volita S
Sent: Thursday, January 24, 2019 12:39 PM EST
To: Hannum, Mark ▮▮▮▮▮▮▮▮▮▮▮▮▮▮ ; Torbert, Shane M ▮▮▮▮▮▮▮▮▮▮
Subject: FW: Invitation for Global High School AI Competition
Attachment(s): "Invitation for 1st International High School AI Exchange Exhibition Jan 2019 - TJHSST.pdf","SenseTime Cup Submission Guideline - Clean Verion.pdf","1st High School AI Competition Registration.docx","SenseTime Intro EN (Word detailed version) 20181213.pdf"

Just FYI

From: Harrison Ding ▮▮▮▮▮▮▮▮▮▮▮▮
Sent: Thursday, January 24, 2019 12:05 PM
To: Russell, Volita S ▮▮▮▮▮▮▮▮▮▮▮▮
Subject: FW: Invitation for Global High School AI Competition

Dear Ms. Russell,

My apology if you are receive the same message twice. I sent the email below to your assistant by mistake.

Regards,

Harrison

Harrison Ding | Chairman & CEO
HiElites Education Technology Company
海育国际教育科技有限公司
201 N. Illinois St
Suite 1600, South Tower
Indianapolis, IN 46204, USA
Office: +1(317)5883111 (direct)   +1(888)2189811(hot line)
Mobile: +▮▮▮▮▮▮▮▮ (USA)   +(86) 15821787945 (China)
Fax: +1(317)6881075   Email : ▮▮▮▮▮▮▮▮▮▮

重要提示：此邮件及其附件可能具有保密性质，并包含商业秘密，其内容受法律保护，不得泄露。如果您不是此邮件的收件人，意外收到此邮件，请您立即通知发件人，同时从您的邮件系统中删除此邮件及其附件。请不要将此邮件及其附件用于任何用途，也不得复制或者向任何第三方透露其内容，谢谢！©海育国际教育科技有限公司

From: Harrison Ding ▮▮▮▮▮▮▮▮▮▮▮▮
Sent: 2019年1月24日 11:07
To: ▮▮▮▮▮▮▮▮▮▮▮▮
Subject: Invitation for Global High School AI Competition

Dear Ms. Russell,

Good morning. I am the CEO for HiElites Education headquartered in Indianapolis. We are an international education company with focus on STEM and other innovative education programs across the globe.

I want to take the opportunity to share with you an exciting opportunity for TJHSST students this coming March. The 1st International High School Student Artificial Intelligence Invitational and Exchange Exhibition will be held online and in Beijing by SenseTime Science Tech Inc, in collaboration with MIT and top universities in Asia. SenseTime is the world's most valuable artificial intelligence (AI) unicorn and the largest pure-play AI company, focused on computer vision and deep learning. (https://en.wikipedia.org/wiki/SenseTime)

As the exclusive overseas partner and representative for this event, HiElites Education is reaching out to selected schools like TJHSST to invite student teams to register and participate in this competition. The exhibition will take place in Beijing March 22-24 and the organizer will cover travel expenses for teams that are selected for the final competition in Beijing. The application will be due on February 8, with proposal papers due on February 24. Selection notifications will be sent out by March 4 and will include materials for international travel, lodging, and visa applications. I have included an invitation card, registration form, project paper submission guideline and introduction about SenseTime.

Besides certificates/medals and monetary rewards, the winning team of the tournament will receive one-year free coaching and AI training with top AI scientists and engineers. Other awards for winners include internship opportunities at SenseTime, MIT and other top universities.

Please pass it on to your teachers and students. If you have any questions, please don't hesitate to email or call me at ▮▮▮▮▮▮▮▮ or contact us at +1(888)2189811.

Sincerely,

Harrison

Harrison Ding | Chairman & CEO
HiElites Education Technology Company
海育国际教育科技有限公司
201 N. Illinois St
Suite 1600, South Tower
Indianapolis, IN 46204, USA
Office: +1(317)5883111 (direct)   +1(888)2189811(hot line)
Mobile: +█████████████ (USA)   +(86) 15821787945 (China)
Fax: +1(317)6881075   Email : █████████████

Application Form 1: Basic Information

Note: This form must be completed by the entrant (contestant) him/herself (the first author) . The items with "*" are required.

This form must be signed by the tutor and authorized school representative (guidance counselor, faculty member, science and technology director, etc.).

First Author	Name*		Sex	ID/ Passport #
	School*			Grade / Age
	Contact	Email*		Mobile*
Personal Information	(hobbies/interests, community services, awards, and plans for the future)			
Advisor(s)	Tutor (or class teacher) name: _____ Date: _____ Name of the principal (or department head): _____ Date: _____			
School Approval	I declare to agree to participate in the event "SenseTime Cup" International High School Student Artificial Intelligence Invitational Tournament. All the contestants on this form are current students in our school. Signed by authorized representative: _____ Date: _____			

Application Form 2: Project Research Form

Each submission is limited to 1-4 authors (contestants)

Title of Submission	
Classification of submission	☐ computer science ☐ engineering ☐ mathematics ☐ Interdisciplinary research between artificial intelligence and other disciplines
Objectives of Project (Basic idea)	
Innovations of Project	

Co-author status (insert rows if applicable)

Name	Sex	Age	Major/ Grade	School	Education level	Contact Number

Tutor status (insert rows if applicable)

Name	Sex	Age	Profession	Organisation	Title	Contact Number

Abstract of Submission (maximum 1000 characters)

Please send the Application Form to the following emails before Feb. 9th , 2019 : ███████████████████████████████

███████████████

The 1st International High School Students Artificial Intelligence Exchange Exhibition

Invitation card

To Thomas Jefferson High School for Science and Technology:

Artificial intelligence is an important driving force for a new round of scientific and technological revolution and industrial transformation, and will have a lasting and profound impact on human society. In order to exchange the experience of artificial intelligence education among high school students in various countries, and to lead the exploration of youth science and technology innovation with artificial intelligence as the focus as well as to explore the development trend of artificial intelligence education, it is scheduled to hold "The 1st International High School Students Artificial Intelligence Exchange Exhibition & Competition" in Beijing, China from March 22 to March 24, 2019. The exchange Exhibition & Competition will build a platform for learning and application of advanced artificial intelligence technology for the new generation from all countries, and facilitate the sharing of the research results of artificial intelligence technology. It is known that your school/ unit has

achieved fruitful results in talent cultivation and scientific and technological innovation exploration. We cordially invite you to participate in this event.

1) Event Theme

Vision of AI Future

2) Event Organiser

Organiser: Beijing SenseTime Science Tech Ltd.

New Education Institute

Participating University: The University of Hong Kong

Chinese University of Hong Kong

Tsinghua University

Beijing University

Renmin University of China

Beijing Aerospace University

Shanghai Jiaotong University

Zhejiang University

Xi'an Jiaotong University

Xidian University of Electronic

Contractor: Future Famous

Ooverseas Collaboration: HiElites Education (USA)

3) Time and Venue

Time: 22 March to 24 March, 2019 (Check in on the 22)

Venue: Zhongguancun Conference Center, Beijing, China (No. 2, Gongmen Road, Haidian District, Beijing)

4) Exchange Exhibition & Competition Content

The AI science and technology projects of the high school students participating in the exhibition & competition:

• Introduce the AI project and the content of science and technology through an exhibition board;

• Display and Q&A section of the AI project.

Participating in domestic and foreign universities related to artificial intelligence: displaying artificial intelligence curriculum, talent training programs or school AI science and technology projects through exhibition boards.

The exhibition also features expert lectures, living library exchanges and other activities, building a platform to facilitate communication between universities and secondary schools at home and abroad, to allow and domestic and foreign high school students to jointly experience and share the development of artificial intelligence research and artificial intelligence education.

5) Target Participants

Global high school students;

Select universities with artificial intelligence related discipline

6) Team composition

The student team participating in the activity is led by the teachers of the school or organising unit. Each school can apply for multiple project teams, and the number of each team is no more than five.

7) Project Submission Requirements

The project topic should be chosen from one of the below disciplines.

- Computer Science: Computer Vision, Machine Learning, Graphics, Speech and Natural Language Processing, etc.;

- Engineering: Robotics, Control Theory, Human-Computer Interaction, Data Visualization, etc.;

- Mathematics: probability theory, mathematical statistics, optimization, theoretical research of machine learning, etc.;

- Interdisciplinary fields of artificial intelligence and other disciplines: including but not limited to biochemical categories, physics and geospatial science, environmental science and social sciences.

Participating projects can apply artificial intelligence to any discipline, but they must address specific problem-solving. For example, specific optimizations for

tools used in machine learning.

8) Judge panel and scoring method

- The judging team: Professors of relevant disciplines from universities and industrial experts from SenseTime.

- Scoring method: Establishment of research questions, project design and method selection, project execution, data collection, analysis and interpretation, innovative evaluation, display evaluation, student quality evaluation, project independence evaluation.

_____

9) Evaluation

- Initial evaluation: The time is from 25 February 2019 to 4 March 2019. The initial evaluation round is conducted in a form of expert review, and the finalist list will be published on the event website. The finalists will be eligible to participate in the final evaluation exhibition.

- Final evaluation: The time is 22 March 2019 - 24 March 2019. The final review is in the form of an on-site review.

10) Recognition and reward

In addition to obtaining an activity certificate, the reward form includes:

- Reward:

The grand prize (20% of the final evaluation project), prize worth of RMB 5,000.

First prize (30% of the final evaluation project), prize worth of RMB 3,000.

- Counseling Program: The grand prize will also receive continuous guidance and support from senior researchers of SenseTime in the year after the competition. The assistance and counseling programs aim to help the students to win in national or world-class competitions.

- Project Internship: Participants in the Grand Prize and the First Prize will have the opportunity to go to SenseTime and collaborating university (such as MIT, Chinese University of Hong Kong, Tsinghua University, Xi'an Jiaotong University, etc.) for internship or summer vacation. project.

11) Registration

Please use the registration form for the AI event and competition entry.

Registration time: 18 January 2019 – 8 February 2019

Project report/paper submission time: Before February 24, 2019

12) Registration Fees

The event is free of registration fees.

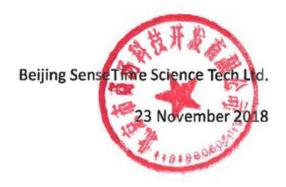**13) Contacts for inquiries:**

Dr. Chen (M: 812-369-3699)

Harrison Ding (M: 317-588-3111)

HiElites Education Hotline: (888)2189811

Annex 1: Activities agenda

Annex 2: Introduction to SenseTime

Beijing SenseTime Science Tech Ltd.

23 November 2018

Annex 1: Activities agenda

Date	Time	Activities
22 March	Before 15:00	Arrival and register
	15:00-18:00	Decoration for exhibition
	18:00-19:30	Dinner
23 March	7:00-8:30	Breakfast
	8:30-9:00	Group photo
	9:00-10:30	Grand opening
	10:30-12:00	Expert report
	12:00-14:00	Lunch break
	14:00-18:00	Exhibition and evaluation
	18:00-19:30	Dinner
24 March	7:00-8:30	Breakfast
	8:30-12:00	Exhibition and evaluation
	12:00-14:00	Lunch
	14:00-15:30	Living library section
	16:00-18:00	Awards ceremony
	18:00-19:30	Dinner

Annex 2: Introduction to SenseTime

SenseTime is the world's leading artificial intelligence platform company and the "world's most valuable AI innovation company". With the mission of "Lead AI Innovation, Power the Futures", SenseTime has established a world-class, self-developed deep learning supercomputing cluster centre and a series of AI technologies, which have been able to land in education, smart cities, smart phones and interactions. Entertainment and advertising, automotive, finance and other industries have established cooperation with more than 700 customers and partners at home and abroad, including world-renowned companies and institutions. At present, SenseTime artificial intelligence education has been solidly laid out in the basic education stage. On April 28, 2018, SenseTime and the first-line teachers of many well-known high schools in Shanghai jointly compiled the world's first "Fundamental of Artificial Intelligence" primary and secondary school textbooks; launched the Sense Study artificial intelligence teaching experiment platform with 100% intellectual property rights, Signed in attendance, campus security, classroom attention evaluation and other systems; in China's first batch of artificial intelligence cooperative schools in 40 key high schools to carry out AI into the classroom, into the laboratory, into the campus and other series of practice.

"SenseTime Cup" International High School Student Artificial Intelligence Exhibition & Competition

Student: John Smith   Instructor: Elbert Einstein

1 Abstract

The abstract should outline the main content of the project paper. We recommend that the abstract should have at least 50 and at most 200 words. There is no need to change pages between the abstract and the body.

2 Introduction

This document serves as a sample project paper for formatting. This document will briefly describe the format of the paper we would like to see in the SenseTime Cup. At the same time, we will try to provide as much detail as possible from different angles as a general guideline, but not an absolute requirement.

2.1 Language

It is recommended that students from outside China submit English papers, but corresponding Chinese versions are also welcome and accepted at the same time.

2.2 Length

The body of the paper must have at least 4 pages but no more than 20 pages. The part of the cited literature is not included in the body of the paper. Papers with more than 20 pages will not be rejected, but only the first 20 pages will be printed for review.

2.3 Chapter numbering

Please number all your charts, chapters and formulas. This will make the review of the paper more efficient. For example, the judges can more easily point out that there is a problem with a certain figure or a certain formula. Instead of "the first formula on the third page".

2.4 Font and line spacing

The line spacing should be set as single line spacing. The font size is recommended to be set as 12. A text size smaller than 10 will not be reviewed. The font is recommended to use SimSun or Times New Roman. Or other fonts are fine.

3 Principle of blind review

The review of the "SenseTime Cup" is one-sided blindfolded. That is, the reviewer can see the identity of the author and the school, but the author cannot see the identity of the reviewer when receiving feedback. In future competitions, it may be changed to double-blind review. Although there is currently no double-blind review, author should not emphasize their school in their own submissions， including its equipment, venues, students, etc.. If you use your own school's equipment, please mention "a school" or "a high school" in the paper without specifying the name of the school. Further, if your work is based on a project you worked on before, you should make reference to the work including the project or school that you attended, rather than just referencing "During my/our previous experiment…"

4 Other format issues

The formatting requirements listed in this document are suggestions, not absolute requirements. The key is clarity. The lowest standard is that the paper should not be over-indented so that different contents ended up overlapping each other.

4.1 Tables or Forms

The description for a table needs to be placed above the table. It is recommended that the table to have one line spacing between the table and texts right above or below the table. Alternatively, you may put the table at the top of a page.

Table 1 The font of the table header can be smaller than the main content font (10 pt suggested)

4	9	2
3	5	7
8	1	6

4.2 Pictures / Graphs

The description of the picture or graph is usually placed below the picture / graph.

Figure 1 The description of the picture is placed at the bottom of the picture. You are welcome to participate in the SenseTime Cup Artificial Intelligence Competition.

If you use Word layout, the image is best set to wrap up and down or centered as content. If the paper is reaching the limit of the suggested length, i.e. 20 pages,, the description of the image can also be placed on the right side of the picture.

4.3 References

You should list all references in the final chapter of the paper. If you use references in the paper, you can use square brackets and reference numbers, such as [1], [2], [3].

5 Guideline for project report (paper) structure

In general, a basic report may contain four main parts: introduction, related work, methods and experiments. Of course, this depends on the actual topic and scenario. For example, a mathematical paper may have additional lemma and proof links.

5.1 Introduction

The introduction should describe the project motivation, and explain why the objective is difficult to achieve from the technical standard. What kind of issues/challenges will arise with a simple proposed solution? How have you improved this? At the end of the introduction, you need to describe the outcome or contribution of this piece of work,

such as proposing a new type of system, and improvements and demonstrate a specific part of the system.

5.2 Related/Relevant work

We don't need you to introduce every relevant work in great detail. The paper needs a general introduction to the latest developments in its own work. If the paper itself is very relevant to a previous project, you can add a chapter (preamble, or a method preamble) after the relevant work to briefly describe the relevant work. And in the relevant work chapter, the paper needs to point out why these related/relevant work in recent years cannot achieve their goals.

5.3 Method

The method part needs to introduce the implementation process of your work and demonstrate the necessity of the steps.

5.4 Experiment

Authors need to prove that their methods are novel and effective. On the one hand, you must compare the best methods presently available, and whether your proposed methods can compare to the existing ones. On the other hand, if the final objective is achieved in multiple steps, it is necessary to demonstrate the effect of each step on the final outcome. Is there an alternative to each part? Would an alternative lower performance and so on.

5.5 Conclusions and discussion

This part is actually very important. If there are some follow-up plans that have not been completed under the tight schedule of the SenseTime Cup, the subsequent planning and experimental design, and the expected experimental results and conclusions can be described using 1/3 of the paper.

6 Special situations

6.1 Group project converted to individual project

If a group project is converted to a single-person project, the author needs and is obliged to introduce the group project in the related/relevant work section, to demonstrate the difference between the individual project and the group project. And the group project needs to be cited in the reference, and any awards that the group project has won should also be indicated.

6.2 Subsequent projects

If the project is the continuation of a previous project already won an award in other science and technology competition, the author is obliged to introduce the previous project under the relevant work section, and demonstrate the improvements made by the new project to the previous project. The author needs to quote the previous project in the reference and list the awards that the previous project has already won.

SenseTime Company Overview

(Detailed Version)

SenseTime is the world's most valuable artificial intelligence (AI) unicorn and the largest pure-play AI company, focused on computer vision and deep learning. Entrusted by the Ministry of Science and Technology of China to establish the National Open Innovation Platform for Next-Generation Artificial Intelligence on Intelligent Vision, SenseTime is the 5th national AI platform in China (along with Baidu, Alibaba Cloud, Tencent and iFLYTEK).

With the mission of leading AI innovation to power the future, SenseTime has independently developed a deep learning platform, supercomputing centers, and a range of AI technologies such as face recognition, image recognition, object recognition, text recognition, medical image analysis, video analysis, autonomous driving, and remote sensing.

SenseTime leads the market in almost all vertical industries, including smart city, smartphone, mobile Internet, online entertainment, automobile, finance, retail, education, real estate and so forth. The company boasts more than 700 customers and partners in China and overseas, including world-renowned institutions and companies such as Massachusetts Institute of Technology (MIT), Qualcomm, NVIDIA, Honda, Alibaba, Suning, China Mobile, UnionPay, Wanda, Xiaomi, OPPO, vivo, Weibo.

Leading AI Research with Top Talents and Proprietary Technologies

SenseTime has attracted some of the world's top minds in AI, creating Asia's largest deep learning research team led by scientists with more than 20 years of research experience. Currently, SenseTime has over 2300 staff members, 150 of whom hold a doctoral degree in AI from top universities.

SenseTime works closely with the academia around the world. In February 2018, SenseTime and MIT announced the creation of an AI alliance to advance AI research in a joint effort. SenseTime became the first company in the world to join MIT's Intelligence Quest project. The company has established joint laboratories and/or conducted joint research projects with the Chinese University of Hong Kong (CUHK), Tsinghua University, Peking University, Shanghai Jiaotong University, and Zhejiang University.

SenseTime brings together the best and brightest minds from the academia and the industry to advance the-state-of-the-art AI research. SenseTime's founder, Prof. Xiao'ou Tang, also founded CUHK's Multimedia Lab, the only one in Asia that made NVIDIA's list of 2016 Top 10 leading AI labs in the world. The CUHK-SenseTime Joint Lab has published and presented more than 400 papers in computer vision in the world's most prestigious academic journals and conferences (second only to Microsoft). In 2014, SenseTime unveiled that its DeepID face recognition algorithm had overtaken human level of accuracy for the first time, ahead of Facebook. The achievement was reported by international media outlets such as *Nature*, *Science* and *Reuters*.

Unleashing Industry Potentials as China's Largest AI Algorithm Provider

While Deep learning is the core engine driving AI innovation, SenseTime is one of the first Asian companies to have gained a foothold in deep learning. SenseTime's proprietary deep learning platform - SenseParrots - is optimized to support wide-scale networks, extra-large data study, and complex applications. SenseTime has built deep learning supercomputing centers that significantly cut R&D costs for developing various AI technologies, and reduced the time it took to develop deep learning algorithmic models. The company has also leveraged its deep learning platform to upgrade a broad range of industries and create an AI ecosystem. In the past few years, SenseTime's computer vision technologies have quickly landed on the market. The company has crafted the unique and successful "1 (basic research) + 1 (products and solutions) + X (industry)" model and leads in nearly all vertical industries that it serves.

In the field of smart city, SenseTime promotes face recognition, video infrastructure, and intelligent video analysis technologies. SenseTime's algorithms have been implemented in many of China's Smart City and Safe City projects, helping municipal administrations be more efficient and effective.

In smartphone industry, SenseTime provides face unlock, smart beautification, smart lens filtering, background blurring, and smart album solutions to OPPO, vivo, Xiaomi, Lenovo, and other well-known OEMs. In doing so, SenseTime helps smartphone users take higher-quality photos and make the overall user experience more intelligent, interactive, and fun.

In online entertainment sector, SenseTime has realized brand-new possibilities for human-computer interaction. Servicing many UGC video and live broadcasting platforms, the company touches daily lives of millions of Internet users.

In financial services industry, SenseTime provides optical character recognition, face comparison, and live body detection technologies to banks, fintech companies, and mobile carriers.

In smart retail industry, SenseTime is using its AI technologies to upgrade brick-and-mortar stores for a better shopping experience. Not only does the company help traditional retailers elevate their VIP customer management by linking people, places, and merchandises, but also it optimizes store operations and enables targeted marketing. SenseTime has worked with Suning to create the "store of tomorrow", enabling a grab-and-go, hassle-free shopping experience.

In the field of deep learning hardware optimization, SenseTime leads the compression of neural network by minimizing the sizes of high-performance, high-precision deep learning networks. Its partners include global chip leaders such as Qualcomm, HiSilicon and Ambarella.

Breaking Financing Records as the World's Most Valuable AI Startup

SenseTime's technological strengths and commercial successes have attracted top venture capital and private equity firms as well as strategic investors around the world. SenseTime will continue to invest in talents, AI ecosystem, global expansion, and new areas such as smart health and robotics.

SenseTime currently has offices in Hong Kong, Beijing, Shenzhen, Shanghai, Chengdu, Hangzhou, Kyoto, Tokyo and Singapore. SenseTime will continue to innovate to make the world more intelligent.

For more information, please visit SenseTime's website as well as LinkedIn, Twitter and Facebook pages.

From: Wilson, Margaret K ███████████████
Sent: Thursday, January 24, 2019 1:58 PM EST
To: Russell, Volita S ██████████████████
Subject: FW: Invitation for Global High School AI Competition
Attachment(s): "Invitation for 1st International High School AI Exchange Exhibition Jan 2019 - TJHSST.pdf","SenseTime Cup Submission Guideline - Clean Verion.pdf","1st High School AI Competition Registration.docx","SenseTime Intro EN (Word detailed version) 20181213.pdf"

FYI!

From: Harrison Ding ██████████████████
Sent: Thursday, January 24, 2019 11:07 AM
To: Wilson, Margaret K ████████████████████
Subject: Invitation for Global High School AI Competition

Dear Ms. Russell,

Good morning. I am the CEO for HiElites Education headquartered in Indianapolis. We are an international education company with focus on STEM and other innovative education programs across the globe.

I want to take the opportunity to share with you an exciting opportunity for TJHSST students this coming March. The 1st International High School Student Artificial Intelligence Invitational and Exchange Exhibition will be held online and in Beijing by SenseTime Science Tech Inc, in collaboration with MIT and top universities in Asia. SenseTime is the world's most valuable artificial intelligence (AI) unicorn and the largest pure-play AI company, focused on computer vision and deep learning. (https://en.wikipedia.org/wiki/SenseTime)

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Please pass it on to your teachers and students. If you have any questions, please don't hesitate to email or call me at ████████████ or contact us at +1(888)2189811.

Sincerely,

Harrison

Harrison Ding | Chairman & CEO
HiElites Education Technology Company
海育国际教育科技有限公司
201 N. Illinois St
Suite 1600, South Tower
Indianapolis, IN 46204, USA
Office: +1(317)5883111 (direct)   +1(888)2189811(hot line)
Mobile: +███████████ (USA)   +(86) 15821787945 (China)
Fax: +1(317)6881075   Email : ████████████████

Application Form 1: Basic Information

Note: This form must be completed by the entrant (contestant) him/herself (the first author) . The items with "*" are required.

This form must be signed by the tutor and authorized school representative (guidance counselor, faculty member, science and technology director, etc.).

First Author	Name*		Sex	ID/ Passport #
	School*			Grade / Age
	Contact	Email*		Mobile*
Personal Information	(hobbies/interests, community services, awards, and plans for the future)			
Advisor(s)	Tutor (or class teacher) name: _____ Date: _____ Name of the principal (or department head): _____ Date: _____			

School Approval	I declare to agree to participate in the event "SenseTime Cup" International High School
	    Student Artificial Intelligence Invitational Tournament. All the contestants on this form are
	    current students in our school.
	
	Signed by authorized representative:
	
	_____
	Date:
	
	_____			

Application Form 2: Project Research Form

Each submission is limited to 1-4 authors (contestants)

Title of Submission	
Classification of submission	☐ computer science ☐ engineering ☐ mathematics ☐ Interdisciplinary research between artificial intelligence and other disciplines
Objectives of Project (Basic idea)	
Innovations of Project	

Co-author status (insert rows if applicable)

Name	Sex	Age	Major/ Grade	School	Education level	Contact Number

Tutor status (insert rows if applicable)

Name	Sex	Age	Profession	Organisation	Title	Contact Number

Abstract of Submission (maximum 1000 characters)

Please send the Application Form to the following emails before Feb. 9ᵗʰ , 2019 :

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Invitation card

To Thomas Jefferson High School for Science and Technology:

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achieved fruitful results in talent cultivation and scientific and technological innovation exploration. We cordially invite you to participate in this event.

1) Event Theme

Vision of AI Future

2) Event Organiser

Organiser:	Beijing SenseTime Science Tech Ltd.
	New Education Institute
Participating University:	The University of Hong Kong
	Chinese University of Hong Kong
	Tsinghua University
	Beijing University
	Renmin University of China
	Beijing Aerospace University
	Shanghai Jiaotong University
	Zhejiang University
	Xi'an Jiaotong University
	Xidian University of Electronic
Contractor:	Future Famous
Ooverseas Collaboration:	HiElites Education (USA)

3) Time and Venue

Time: 22 March to 24 March, 2019 (Check in on the 22)

Venue: Zhongguancun Conference Center, Beijing, China (No. 2, Gongmen Road, Haidian District, Beijing)

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• Display and Q&A section of the AI project.

Participating in domestic and foreign universities related to artificial intelligence: displaying artificial intelligence curriculum, talent training programs or school AI science and technology projects through exhibition boards.

The exhibition also features expert lectures, living library exchanges and other activities, building a platform to facilitate communication between universities and secondary schools at home and abroad, to allow and domestic and foreign high school students to jointly experience and share the development of artificial intelligence research and artificial intelligence education.

5) Target Participants

Global high school students;

Select universities with artificial intelligence related discipline

6) Team composition

The student team participating in the activity is led by the teachers of the school or organising unit. Each school can apply for multiple project teams, and the number of each team is no more than five.

7) Project Submission Requirements

The project topic should be chosen from one of the below disciplines.

- Computer Science: Computer Vision, Machine Learning, Graphics, Speech and Natural Language Processing, etc.;

- Engineering: Robotics, Control Theory, Human-Computer Interaction, Data Visualization, etc.;

- Mathematics: probability theory, mathematical statistics, optimization, theoretical research of machine learning, etc.;

- Interdisciplinary fields of artificial intelligence and other disciplines: including but not limited to biochemical categories, physics and geospatial science, environmental science and social sciences.

Participating projects can apply artificial intelligence to any discipline, but they must address specific problem-solving. For example, specific optimizations for

tools used in machine learning.

8) Judge panel and scoring method

- The judging team: Professors of relevant disciplines from universities and industrial experts from SenseTime.

- Scoring method: Establishment of research questions, project design and method selection, project execution, data collection, analysis and interpretation, innovative evaluation, display evaluation, student quality evaluation, project independence evaluation.

_____

9) Evaluation

- Initial evaluation: The time is from 25 February 2019 to 4 March 2019. The initial evaluation round is conducted in a form of expert review, and the finalist list will be published on the event website. The finalists will be eligible to participate in the final evaluation exhibition.

- Final evaluation: The time is 22 March 2019 - 24 March 2019. The final review is in the form of an on-site review.

10) Recognition and reward

In addition to obtaining an activity certificate, the reward form includes:

- Reward:

The grand prize (20% of the final evaluation project), prize worth of RMB 5,000.

First prize (30% of the final evaluation project), prize worth of RMB 3,000.

- Counseling Program: The grand prize will also receive continuous guidance and support from senior researchers of SenseTime in the year after the competition. The assistance and counseling programs aim to help the students to win in national or world-class competitions.

- Project Internship: Participants in the Grand Prize and the First Prize will have the opportunity to go to SenseTime and collaborating university (such as MIT, Chinese University of Hong Kong, Tsinghua University, Xi'an Jiaotong University, etc.) for internship or summer vacation. project.

11) Registration

Please use the registration form for the AI event and competition entry.

Registration time: 18 January 2019 – 8 February 2019

Project report/paper submission time: Before February 24, 2019

12) Registration Fees

The event is free of registration fees.

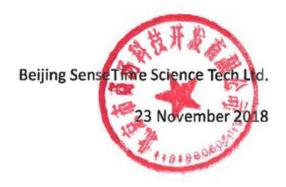**13) Contacts for inquiries:**

Dr. Chen (M: 812-369-3699)

Harrison Ding (M: 317-588-3111)

HiElites Education Hotline: (888)2189811

Annex 1: Activities agenda

Annex 2: Introduction to SenseTime

Beijing SenseTime Science Tech Ltd.

23 November 2018

Annex 1: Activities agenda

Date	Time	Activities
22 March	Before 15:00	Arrival and register
	15:00-18:00	Decoration for exhibition
	18:00-19:30	Dinner
23 March	7:00-8:30	Breakfast
	8:30-9:00	Group photo
	9:00-10:30	Grand opening
	10:30-12:00	Expert report
	12:00-14:00	Lunch break
	14:00-18:00	Exhibition and evaluation
	18:00-19:30	Dinner
24 March	7:00-8:30	Breakfast
	8:30-12:00	Exhibition and evaluation
	12:00-14:00	Lunch
	14:00-15:30	Living library section
	16:00-18:00	Awards ceremony
	18:00-19:30	Dinner

Annex 2: Introduction to SenseTime

SenseTime is the world's leading artificial intelligence platform company and the "world's most valuable AI innovation company". With the mission of "Lead AI Innovation, Power the Futures", SenseTime has established a world-class, self-developed deep learning supercomputing cluster centre and a series of AI technologies, which have been able to land in education, smart cities, smart phones and interactions. Entertainment and advertising, automotive, finance and other industries have established cooperation with more than 700 customers and partners at home and abroad, including world-renowned companies and institutions. At present, SenseTime artificial intelligence education has been solidly laid out in the basic education stage. On April 28, 2018, SenseTime and the first-line teachers of many well-known high schools in Shanghai jointly compiled the world's first "Fundamental of Artificial Intelligence" primary and secondary school textbooks; launched the Sense Study artificial intelligence teaching experiment platform with 100% intellectual property rights, Signed in attendance, campus security, classroom attention evaluation and other systems; in China's first batch of artificial intelligence cooperative schools in 40 key high schools to carry out AI into the classroom, into the laboratory, into the campus and other series of practice.

"SenseTime Cup" International High School Student Artificial Intelligence Exhibition & Competition

Student: John Smith   Instructor: Elbert Einstein

1 Abstract

The abstract should outline the main content of the project paper. We recommend that the abstract should have at least 50 and at most 200 words. There is no need to change pages between the abstract and the body.

2 Introduction

This document serves as a sample project paper for formatting. This document will briefly describe the format of the paper we would like to see in the SenseTime Cup. At the same time, we will try to provide as much detail as possible from different angles as a general guideline, but not an absolute requirement.

2.1 Language

It is recommended that students from outside China submit English papers, but corresponding Chinese versions are also welcome and accepted at the same time.

2.2 Length

The body of the paper must have at least 4 pages but no more than 20 pages. The part of the cited literature is not included in the body of the paper. Papers with more than 20 pages will not be rejected, but only the first 20 pages will be printed for review.

2.3 Chapter numbering

Please number all your charts, chapters and formulas. This will make the review of the paper more efficient. For example, the judges can more easily point out that there is a problem with a certain figure or a certain formula. Instead of "the first formula on the third page".

2.4   Font and line spacing

The line spacing should be set as single line spacing. The font size is recommended to be set as 12. A text size smaller than 10 will not be reviewed. The font is recommended to use SimSun or Times New Roman. Or other fonts are fine.

3   Principle of blind review

The review of the "SenseTime Cup" is one-sided blindfolded. That is, the reviewer can see the identity of the author and the school, but the author cannot see the identity of the reviewer when receiving feedback. In future competitions, it may be changed to double-blind review. Although there is currently no double-blind review, author should not emphasize their school in their own submissions， including its equipment, venues, students, etc.. If you use your own school's equipment, please mention "a school" or "a high school" in the paper without specifying the name of the school. Further, if your work is based on a project you worked on before, you should make reference to the work including the project or school that you attended, rather than just referencing "During my/our previous experiment…"

4   Other format issues

The formatting requirements listed in this document are suggestions, not absolute requirements. The key is clarity. The lowest standard is that the paper should not be over-indented so that different contents ended up overlapping each other.

4.1   Tables or Forms

The description for a table needs to be placed above the table. It is recommended that the table to have one line spacing between the table and texts right above or below the table. Alternatively, you may put the table at the top of a page.

Table 1 The font of the table header can be smaller than the main content font (10 pt suggested)

4	9	2
3	5	7
8	1	6

4.2 Pictures / Graphs

The description of the picture or graph is usually placed below the picture / graph.

Figure 1 The description of the picture is placed at the bottom of the picture. You are welcome to participate in the SenseTime Cup Artificial Intelligence Competition.

If you use Word layout, the image is best set to wrap up and down or centered as content. If the paper is reaching the limit of the suggested length, i.e. 20 pages,, the description of the image can also be placed on the right side of the picture.

4.3 References

You should list all references in the final chapter of the paper. If you use references in the paper, you can use square brackets and reference numbers, such as [1], [2], [3].

5 Guideline for project report (paper) structure

In general, a basic report may contain four main parts: introduction, related work, methods and experiments. Of course, this depends on the actual topic and scenario. For example, a mathematical paper may have additional lemma and proof links.

5.1 Introduction

The introduction should describe the project motivation, and explain why the objective is difficult to achieve from the technical standard. What kind of issues/challenges will arise with a simple proposed solution? How have you improved this? At the end of the introduction, you need to describe the outcome or contribution of this piece of work,

such as proposing a new type of system, and improvements and demonstrate a specific part of the system.

5.2 Related/Relevant work

We don't need you to introduce every relevant work in great detail. The paper needs a general introduction to the latest developments in its own work. If the paper itself is very relevant to a previous project, you can add a chapter (preamble, or a method preamble) after the relevant work to briefly describe the relevant work. And in the relevant work chapter, the paper needs to point out why these related/relevant work in recent years cannot achieve their goals.

5.3 Method

The method part needs to introduce the implementation process of your work and demonstrate the necessity of the steps.

5.4 Experiment

Authors need to prove that their methods are novel and effective. On the one hand, you must compare the best methods presently available, and whether your proposed methods can compare to the existing ones. On the other hand, if the final objective is achieved in multiple steps, it is necessary to demonstrate the effect of each step on the final outcome. Is there an alternative to each part? Would an alternative lower performance and so on.

5.5 Conclusions and discussion

This part is actually very important. If there are some follow-up plans that have not been completed under the tight schedule of the SenseTime Cup, the subsequent planning and experimental design, and the expected experimental results and conclusions can be described using 1/3 of the paper.

6 Special situations

6.1 Group project converted to individual project

If a group project is converted to a single-person project, the author needs and is obliged to introduce the group project in the related/relevant work section, to demonstrate the difference between the individual project and the group project. And the group project needs to be cited in the reference, and any awards that the group project has won should also be indicated.

6.2 Subsequent projects

If the project is the continuation of a previous project already won an award in other science and technology competition, the author is obliged to introduce the previous project under the relevant work section, and demonstrate the improvements made by the new project to the previous project. The author needs to quote the previous project in the reference and list the awards that the previous project has already won.

SenseTime Company Overview

(Detailed Version)

SenseTime is the world's most valuable artificial intelligence (AI) unicorn and the largest pure-play AI company, focused on computer vision and deep learning. Entrusted by the Ministry of Science and Technology of China to establish the National Open Innovation Platform for Next-Generation Artificial Intelligence on Intelligent Vision, SenseTime is the 5th national AI platform in China (along with Baidu, Alibaba Cloud, Tencent and iFLYTEK).

With the mission of leading AI innovation to power the future, SenseTime has independently developed a deep learning platform, supercomputing centers, and a range of AI technologies such as face recognition, image recognition, object recognition, text recognition, medical image analysis, video analysis, autonomous driving, and remote sensing.

SenseTime leads the market in almost all vertical industries, including smart city, smartphone, mobile Internet, online entertainment, automobile, finance, retail, education, real estate and so forth. The company boasts more than 700 customers and partners in China and overseas, including world-renowned institutions and companies such as Massachusetts Institute of Technology (MIT), Qualcomm, NVIDIA, Honda, Alibaba, Suning, China Mobile, UnionPay, Wanda, Xiaomi, OPPO, vivo, Weibo.

Leading AI Research with Top Talents and Proprietary Technologies

SenseTime has attracted some of the world's top minds in AI, creating Asia's largest deep learning research team led by scientists with more than 20 years of research experience. Currently, SenseTime has over 2300 staff members, 150 of whom hold a doctoral degree in AI from top universities.

SenseTime works closely with the academia around the world. In February 2018, SenseTime and MIT announced the creation of an AI alliance to advance AI research in a joint effort. SenseTime became the first company in the world to join MIT's Intelligence Quest project. The company has established joint laboratories and/or conducted joint research projects with the Chinese University of Hong Kong (CUHK), Tsinghua University, Peking University, Shanghai Jiaotong University, and Zhejiang University.

SenseTime brings together the best and brightest minds from the academia and the industry to advance the-state-of-the-art AI research. SenseTime's founder, Prof. Xiao'ou Tang, also founded CUHK's Multimedia Lab, the only one in Asia that made NVIDIA's list of 2016 Top 10 leading AI labs in the world. The CUHK-SenseTime Joint Lab has published and presented more than 400 papers in computer vision in the world's most prestigious academic journals and conferences (second only to Microsoft). In 2014, SenseTime unveiled that its DeepID face recognition algorithm had overtaken human level of accuracy for the first time, ahead of Facebook. The achievement was reported by international media outlets such as *Nature*, *Science* and *Reuters*.

Unleashing Industry Potentials as China's Largest AI Algorithm Provider

While Deep learning is the core engine driving AI innovation, SenseTime is one of the first Asian companies to have gained a foothold in deep learning. SenseTime's proprietary deep learning platform - SenseParrots - is optimized to support wide-scale networks, extra-large data study, and complex applications. SenseTime has built deep learning supercomputing centers that significantly cut R&D costs for developing various AI technologies, and reduced the time it took to develop deep learning algorithmic models. The company has also leveraged its deep learning platform to upgrade a broad range of industries and create an AI ecosystem. In the past few years, SenseTime's computer vision technologies have quickly landed on the market. The company has crafted the unique and successful "1 (basic research) + 1 (products and solutions) + X (industry)" model and leads in nearly all vertical industries that it serves.

In the field of smart city, SenseTime promotes face recognition, video infrastructure, and intelligent video analysis technologies. SenseTime's algorithms have been implemented in many of China's Smart City and Safe City projects, helping municipal administrations be more efficient and effective.

In smartphone industry, SenseTime provides face unlock, smart beautification, smart lens filtering, background blurring, and smart album solutions to OPPO, vivo, Xiaomi, Lenovo, and other well-known OEMs. In doing so, SenseTime helps smartphone users take higher-quality photos and make the overall user experience more intelligent, interactive, and fun.

In online entertainment sector, SenseTime has realized brand-new possibilities for human-computer interaction. Servicing many UGC video and live broadcasting platforms, the company touches daily lives of millions of Internet users.

In financial services industry, SenseTime provides optical character recognition, face comparison, and live body detection technologies to banks, fintech companies, and mobile carriers.

In smart retail industry, SenseTime is using its AI technologies to upgrade brick-and-mortar stores for a better shopping experience. Not only does the company help traditional retailers elevate their VIP customer management by linking people, places, and merchandises, but also it optimizes store operations and enables targeted marketing. SenseTime has worked with Suning to create the "store of tomorrow", enabling a grab-and-go, hassle-free shopping experience.

In the field of deep learning hardware optimization, SenseTime leads the compression of neural network by minimizing the sizes of high-performance, high-precision deep learning networks. Its partners include global chip leaders such as Qualcomm, HiSilicon and Ambarella.

Breaking Financing Records as the World's Most Valuable AI Startup

SenseTime's technological strengths and commercial successes have attracted top venture capital and private equity firms as well as strategic investors around the world. SenseTime will continue to invest in talents, AI ecosystem, global expansion, and new areas such as smart health and robotics.

SenseTime currently has offices in Hong Kong, Beijing, Shenzhen, Shanghai, Chengdu, Hangzhou, Kyoto, Tokyo and Singapore. SenseTime will continue to innovate to make the world more intelligent.

For more information, please visit SenseTime's website as well as LinkedIn, Twitter and Facebook pages.