

2023 雲科大 AI 賽車

提升雲科大學生對人工智慧之認識，並鼓勵更多學生進入人工智慧領域。透過此次的競賽，熟悉目前業界廣泛運用的雲端運算平台服務，人工智慧與自駕車的應用相關技術。

報名 競賽



0 目前
報名組數

\$33,000 總
獎金

9/11 開始
競賽報名

AWS DeepRacer

根據 AWS 網站：『AWS DeepRacer 是開始使用強化學習 (RL) 最快的方法，透過強化學習、3D 賽車模擬器和全球賽車聯盟實際駕駛 1/18 比例全自動駕駛賽車。開發人員可以在線上模擬器訓練、評估和調校 RL 模型、將他們的模型部署到 AWS DeepRacer 以獲得真實世界的自動駕駛體驗，以及在 AWS DeepRacer League 比賽中爭取贏得 AWS DeepRacer 冠軍盃的機會。』簡單地說，DeepRacer 是一個在自動駕駛汽車上學習和改進人工智慧 (AI) 和機器學習 (ML) 技術的平台，可以經過全面訓練並用於虛擬模擬。本次競賽將採用線上競賽方式進行。

關於競賽

提升雲科大學生對人工智慧之認識，並鼓勵更多學生進入人工智慧之領域。透過此次的競賽，學生可以熟悉目前業界廣泛運用的雲端運算平台服務，瞭解人工智慧的相關技術，以及目前相當熱門的自駕車的應用。



活動規則



報名期間

即日起
至
民國112年10月10日



組隊方式

身分須為雲科在學學生 每組1到4人 報名方式請參考下方流程



積分計算

二次線上賽車積分賽 每次賽車前10名可獲得積分 第1至10名之積分依序如下：25, 18, 15, 12, 10, 8, 6, 4, 2, 1分



競賽規章

本競賽僅能以自己的Reinforcement Learning model 或是 AWS DeepRacer 控制台提供的Sample model進行比賽。不得分享或使用別人分享之model。

競賽獎項



新台幣一萬五千元之現金或等值禮券



第一名



新台幣一萬元之現金或等值禮券



第二名

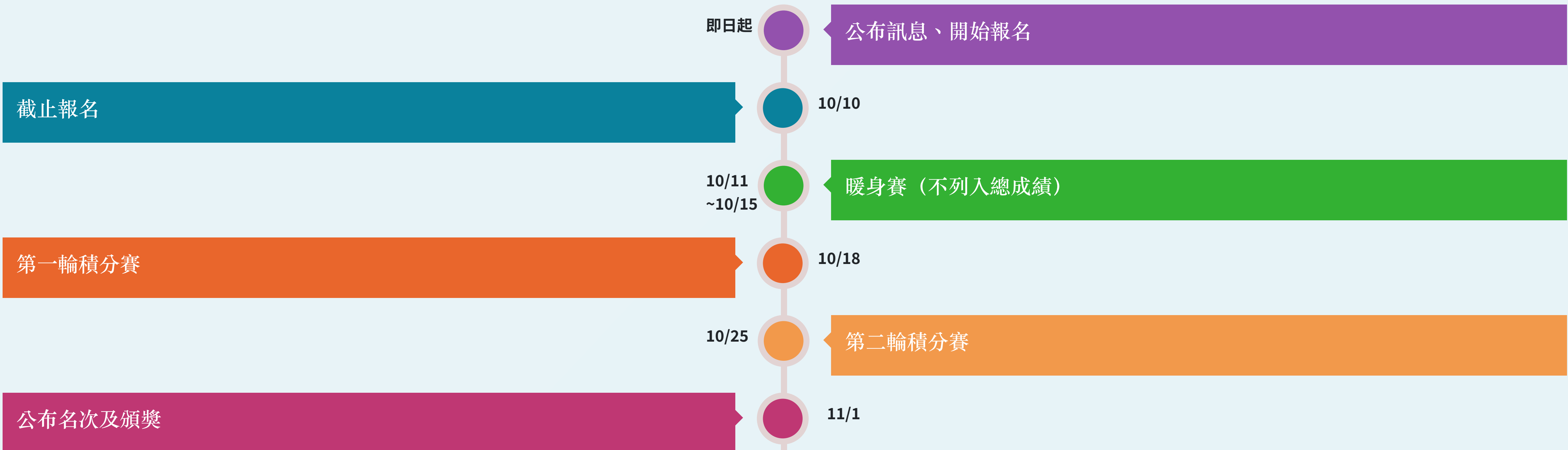


新台幣八千元之現金或等值禮券



第三名

競賽時程表



*主辦單位因應實際情況得調整競賽時程

報名流程

報名過程中如遇到任何問題，請 Email 至 changart@yuntech.edu.tw

請各組依照以下報名流程，完成相關報名手續



1. 組長建立小隊

請小隊組長優先建立帳號



2. 組長將邀請碼交給組員

請小隊組長將建立隊伍後取得的邀請碼，發送給小組成員



3. 小組成員使用邀請碼註冊

請小組成員使用組長給予的邀請碼註冊，並自行記憶帳號密碼



4. 請所有組員上傳學生證

加入隊伍後，請記得上傳學生證，未上傳視同放棄參加資格



5. 等候驗證

靜待主辦單位審核，請注意Email 通知

聯絡人

張老師

changart@yuntech.edu.tw

主辦單位

資訊管理系

協辦單位

教卓中心

本活動由教育部高等教育深耕計畫經費補助

2023 NYUST AI Racing

To improve NYUST students' comprehension of artificial intelligence and inspire more students to delve into this field, this competition is designed to introduce participants to prominent cloud computing platforms utilized in the industry and acquaint them with the pertinent technologies in artificial intelligence and autonomous driving applications.

[Join Contest](#)

AWS DeepRacer

According to the AWS website: 'AWS DeepRacer is the fastest way to get started with Reinforcement Learning (RL), by driving a 1/18 scale fully autonomous race car through reinforcement learning, a 3D racing simulator, and a global racing league. Developers can train, evaluate, and tune RL models in the online simulator, deploy their models to AWS DeepRacer to gain real-world autonomous driving experience, and compete in the AWS DeepRacer League for a chance to win the AWS DeepRacer Championship Cup.' Simply put, DeepRacer is a platform to learn and improve artificial intelligence (AI) and machine learning (ML) techniques on autonomous cars, which can undergo comprehensive training and be used for virtual simulation. This competition will be conducted online.

About Contest

To enhance the awareness of artificial intelligence among the students at NYUST and encourage more students to enter the field of artificial intelligence, this competition aims to provide students with an opportunity to become familiar with widely used cloud computing platform services in the industry. It also aims to help them gain insights into the relevant technologies of artificial intelligence and the current highly popular applications of self-driving cars.



Event rule



Registration period

Registration deadline is October 10, 2023.



Team members

All team members must be current NYUST students. Each team can consist of 1 to 4 members. Please refer to the registration process below for sign-up details.



Scoring system

Two online racing point competitions will be held. The top 10 racers in each race can earn points. The points for 1st to 10th place are as follows: 25, 18, 15, 12, 10, 8, 6, 4, 2, 1 point(s) respectively.



Competition regulations

This competition allows participants to compete using their own Reinforcement Learning model or the Sample model provided by the AWS DeepRacer console. Sharing or using models shared by others is not permitted.

Competition prizes



NTD 15,000 in cash or equivalent vouchers.



The first place



NTD 10,000 in cash or equivalent vouchers.



The second place



NTD 8,000 in cash or equivalent vouchers.



The third place

Competition schedule

Now

Announcement of information and commencement of registration.

Registration deadline.

Oct. 10

Oct. 11-15

Warm-up (not counted towards score)

The first round of points race.

Oct. 18

Oct. 25

The second round of points race.

Announcement of rankings and award presentation.

Nov. 1

*The organizers may adjust the competition schedule according to the actual circumstances.

Registration process

If you encounter any issues during the registration process, please email us at changart@yuntech.edu.tw.



1. Team leader creates the team.

Team leader, please register first and create your account and team.



2. The team leader will share the invitation code with team members.

Team leader, please send your team members the invitation code obtained after creating the team.



3. Team members should use the invitation code to register

Team members, please register using the invitation code provided by the team leader and remember your account password.



4. All team members are required to upload their student ID.

After joining the team, please remember to upload your student ID. Failure to do so will be considered as forfeiting your eligibility to participate.



5. Please wait for verification.

Please patiently await the organizer's review, and pay attention to email notifications.

CONTACT

Prof. Chang

changart@yuntech.edu.tw

ORGANIZERS

Department of Information Management

CO-ORGANIZERS

Teaching Excellence Center

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