Ministry of Science and Technology 2020 "Formosa Grand Challenge – Talk to AI" Award Description

I. Purpose

Artificial Intelligence (AI) is accelerating the change of global development trends and patterns. In order to achieve the goal of human-machine interaction in the future, it is necessary for AI to equip machines with linguistic competence. Therefore, AI needs diversified language training, from simple to complex. However, understanding languages requires knowledge of vocabulary, semantics and grammatical structure. In addition, it is sometimes easy to mistake some Chinese words for other similar sounding words. By hosting the 2020 "Formosa Grand Challenge-Talk to AI", the Ministry of Science and Technology encourages innovators to utilize the potential, technology and creativity of AI development to address the challenges of voice applications and looks forward to all possible progress and ideas.

II. Schedule

Registration begins in September 2019 and the final is scheduled for April 2020, for a period of 8 months.

III. Awards

The requirement for the final awards is that the AI program (algorithmic model) must score higher than the human pilot test score. The pilot test method for the final is discussed by the Steering Committee for the Test of Proficiency-Huayu (SC-TOP) and the result of the test is completed and announced by the executive unit before the final. The final score is calculated as the total score of the short answer questions and the dialogue tasks.

The competition award totals NT$ 25 million. The winners of the final will be presented with the award and the honor certificate by the organizer. The top two winners will be determined based on the score ranking of the team AI programs that score higher than the human pilot test score. If the team score is equal to or lower than the human pilot test score, 80% (rounded to the whole number) of the score is used as the benchmark, and the highest score team of this benchmark can receive the special award of NT$ 5 million. If no team reaches 80% of the human pilot test score, the top three teams will receive special awards according to the ranking of the scores.

The winning team shall cooperate with the organizer for public demonstration (such as post-match technical exchanges, etc.). Please refer to the Appendix. The award distribution method is as follows:

Final award benchmark	Competition award
The highest score of the team is greater than (>) the human pilot test score	1st place: NT$ 20 million 2nd place: NT$ 5 million
The highest score of the team is equal to or less than (≦) the human pilot test score, but greater than or equal to (≧) 80% of the human pilot test score	1st place: NT$ 5 million (special award)

The highest score of the team is less than ($\leqq$) 80% of the human pilot test score	1st place: NT$ 2 million (special award)
	2nd place: NT$ 500,000 (special award)
	3rd place: NT$ 300,000 (special award)

＊ If only one team scores higher than the human pilot test score, only first place will be awarded.

＊ In the case of a tied score, the teams with the same score will receive an average of the total available award. For example, if there are two teams in first place, they will receive an average of the total top two awards.

IV. Important Notices

(1) The organizer reserves the right to change the relevant rules and schedule of the competition, and to explain the rules of the competition. If necessary, each award can remain "vacant".

(2) In addition to voice recognition, the materials, techniques and program codes used in the entries must be original or have been legally authorized, or the open source code or application interface (API) is publicly available. If any third party claims infringement of intellectual property rights or other illegal matters, the participating team shall bear all the relevant legal responsibilities on its own, and the organizer may disqualify the team.

(3) Those who have been selected for the competition awards (excluding special awards) are required to submit their award-winning program code and their derivative works (including the program model) copyright free and authorize use by the National Experimental Research Institute Laboratories (hereinafter referred to as NARLabs) for non-profit purposes. Its scope of authority includes the right to test, verify, reproduce and publicly demonstrate the finished products. For the subject of the foregoing authorization, including the self-developed program model, if the program uses the subject of legal authorization by a third party, the winner shall ensure that two years from the time of the announcement of the award, NARLabs can legally and freely demonstrate its finished products, and no other third party has the right to make any claims against NARLabs. NARLabs can reproduce the products for the purpose of public disclosure. The winning team is also required to assist the organizer to check and reproduce the competition result. If the team cannot provide the environment to reproduce the competition result, all of its awards will be cancelled.

(4) The organizer has the right to request the team to provide the program codes and related materials for verification, and to entrust a credible third party to carry out code review and reproduction. If it is impossible to reproduce the same answer as in the competition or there are fraudulent situations such as fabrication, plagiarism or fraud, the organizer may disqualify the team and cancel all its awards. The participating team shall also bear all the relevant legal responsibilities on its own.

(5) The winning team shall complete the award distribution form by **April 30, 2020** and send it by post to the Science & Technology Policy Research and Information Center (as indicated by the postmark). Those who fail to submit the form are deemed to have forfeited.

(6) The amount of withholding tax shall be handled in accordance with the relevant taxation laws and regulations of Taiwan.

Ministry of Science and Technology 2020 "Formosa Grand Challenge – Talk to AI" Team Subsequent Cooperation Agreement and Copyright Authorization

Team name	
Subsequent cooperation matters	1. Those in first and second places are required to submit their award-winning program code and their derivative works (including the self-developed program model) copyright free and authorize use by the Science & Technology Policy Research and Information Center for non-profit purposes to assist in the promotion of domestic AI. The winning team shall cooperate with the public demonstration requirements of the organizer and assist in the subsequent setting of the demonstration environment for the entry program in response to the public demonstration. No refusal to cooperate or evasion is allowed. In case of violation, if the award has not been paid, it will not be paid, and if it has been paid, it will be recovered. 2. If the subject of legal authorization by a third party is used in the program, the winner shall ensure that the legal authorization has been obtained. 3. No other third party may claim the rights of the NARLabs, and the Ministry of Science and Technology shall reproduce them for the purposes of the aforementioned public demonstration. 4. The award-winning team is required to assist the organizer to check and reproduce the competition result. If the team cannot provide the environment to reproduce the competition result, all of its awards will be cancelled. 5. The organizer has the right to request the team to provide the program codes and related materials for verification. If there are fraudulent situations such as fabrication, plagiarism or fraud, the organizer may disqualify the team and cancel all its awards. The participating team shall bear all the relevant legal responsibilities on its own.
Copyright authorization	**I hereby agree to** submit the above-mentioned materials to the NARLabs copyright free and authorize use by the NARLabs for non-profit purposes. The authorization covers the rights to test, verify, reproduce and publicly demonstrate the finished products.
Signature of all team members (autograph needed)	
Team leader signature	

Team member signature	

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Appendix 1-2

Ministry of Science and Technology 2020 "Formosa Grand Challenge – Talk to AI" Team Award Distribution Form (A)

※ The following is an example of how to fill in the form and is for reference only.

Please add rows as needed if not sufficient.

※Team Name: _____

No.	Name	ID Card / Residence Certificate No.	Bank Name	Branch Name	Remittance Account	Award Distribution Ratio (unit: %)	Award Distribution Amount (tax-inclusive, rounded)
1	○○○	A123456789	○○ Bank	○○ Branch	○○○○○○○○○○	25%	25,000
2	○○○	B123456789	○○ Bank	○○ Branch	○○○○○○○○○○	20%	20,000
3	○○○	C123456789	○○ Bank	○○ Branch	○○○○○○○○○○	17%	17,000
4	○○○	D123456789	○○ Bank	○○ Branch	○○○○○○○○○○	15%	15,000
5	○○○	E123456789	○○ Bank	○○ Branch	○○○○○○○○○○	12%	12,000
6	○○○	F123456789	○○ Bank	○○ Branch	○○○○○○○○○○	6.5%	6,500
7	○○○	G123456789	○○ Bank	○○ Branch	○○○○○○○○○○	4.5%	4,500
					Total	**100%**	**NT$ 100,000**

Important Notices	Signature of all team members(autograph needed)
1 If the team decides not to distribute the award, it is still necessary to designate a member to serve as the representative of the team for the award (100% of the award ratio).	Team leader signature

2	Team award distribution form and receipts
	
	    – After the team members have signed the form, the team decides how to distribute the award.
	
	    If the award is to be **distributed to the team members**, please fill out this award distribution form (A) and recipient receipt.
		Team member signature

3	**For any questions, please contact the organizer to avoid loss of rights. Applications will not be accepted after the deadline.**	**Date of completion:**

※**When an individual's award payment is equal to or exceeds NT\$ 20,010, the appropriate amount of tax shall be withheld.**

※Team Name: _____

※ **The following is an example of how to fill in the form and is for reference only.**

Please add rows as needed if insufficient.

Ministry of Science and Technology 2020 Payment Receipt

Subject	Cost Item	Number of Items	Amount per Item	Subtotal
2020 "Formosa Grand Challenge – Talk to AI" Final	Bonus			
Total				

Recipient signature: Date:

Recipient: ID card number:

Service Agency:

Residential Address:

Contact Address:

Contact number:

Fax:

Email:

Note:　1.　Since January 1, 2013, according to the provisions of the Measures of National Health Insurance Deduction and Payment of Supplementary Insurance Fees, if the single payment amount is NT$5,000 or more, the supplementary insurance premium shall be deducted according to the prescribed supplementary insurance rate. In accordance with the provisions of Article 5 of the same Measures, if the withholding agent can be exempt from the supplementary insurance premium, the supporting documents shall be submitted before the receipt, and the deduction can be exempt.

　　2.　The residential address includes the county, city, township, village, neighborhood, street, and lane, etc. Please fill in the details in order to facilitate the payment.

　　3.　Please correct or complete the information listed in this receipt and sign it, and send it back to the contact person along with the review materials.

Contact person: Rui-Chi Chang　　　　Fax: •(02)2737-7062　　　　Phone: •(02)2737-7537

Ministry of Science and Technology 2020 "Formosa Grand Challenge – Talk to AI" Team Member Personal Remittance Account Information

Team Name:

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Please post a cover photo of the team member's personal remittance account