

Notice on the "2024 Artificial Intelligence Application Challenge" of China-ASEAN Alliance of Universities for Electronic Information Innovation of CAIH

Artificial intelligence (AI) is an emerging strategic technology leading the future and an important force driving a new round of scientific and technological revolution and industrial change. To further promote scientific and cultural exchanges among university students within the China-ASEAN Alliance of Universities for Electronic Information Innovation of CAIH, and to enhance university students' abilities in AI application and data science thinking to meet the talent needs of enterprises and industries driven by new productivity, it has been decided to hold the "2024 Artificial Intelligence Application Challenge." This competition is sponsored by the China-ASEAN Alliance of Universities for Electronic Information Innovation of CAIH, and hosted by Guilin University of Electronic Technology, mainly covering intelligent manufacturing, industrial robotics, smart medical treatment, smart cities, smart agriculture, unmanned system application development, environmental protection and other frontier fields. Relevant details are as follows:

I. Competition theme

AI empowers new quality productivity; Industries activate new driving force for development.

II. Participants

Students in China-ASEAN Alliance of Universities for Electronic Information Innovation of CAIH (including national universities and ASEAN countries students).

III. Schedule

- 1. Submission of Works (before June 28, 2024):** Teams complete their works and submit registration materials as required.
- 2. Evaluation of Works (before July 3, 2024):** All submitted works will undergo qualification review and evaluation to determine the winning works.
- 3. Award Ceremony (before July 5, 2024):** Award certificates and prizes will be presented to the winning works.

IV. Competition Content

- 1. Competition Topics:** This competition adopts the form of open competition, the contest questions are proposed by enterprises, experts inside and outside the school, mainly divided into domestic and international tracks. See Appendix 1 for details.
- 2. Participation Format:** Participants are required to compete in teams, which can be freely formed. Each team consists of 2-4 members and must have at least one guiding teacher. Participants are encouraged to apply the technology of PaddlePaddle or Baidu AI platform to the development of their works.
- 3. Requirements for Works:**
Originality: Participants must ensure the originality of their works, avoiding plagiarism or

infringement of third-party intellectual property rights. Any such violations will result in full liability for infringement and compensation.

Documentation: Submitted works must include complete and genuine supporting materials. Works that have already won municipal or higher-level design awards are not eligible. The organizers reserve the right to disqualify works that do not meet these requirements.

Rights: The organizers have the right to exhibit, promote, and display all submitted and winning works. Without authorization, no entity or individual may redesign, produce, sell, publicize, publish, exhibit, or promote the works.

Types of Works: Submitted works can be theoretical algorithm research, software algorithm design, hardware system implementation, or integrated software and hardware works highlighting interdisciplinary collaboration.

V. Award setting

First prize: 3 teams, with a team bonus of 2000 yuan and certificates, and a guiding teacher bonus of 1000 yuan and certificates.

Second prize: 6 teams, with a team bonus of 1000 yuan and certificates, and a guiding teacher bonus of 800 yuan and certificates.

Third prize: 10 teams, with a team bonus of 500 yuan and certificates, and a guiding teacher bonus of 500 yuan and certificates.

VI. Submission of works

Each person (each team) is limited to one work (including the team leader and team members). Each work can only be selected for one category. The participating teams shall submit the Application Form for the "2024 Artificial Intelligence Application Challenge" of China-ASEAN Alliance of Universities for Electronic Information Innovation of CAIH before June 28, 2024 (word version, Required materials) and optional materials of your work (other relevant certification materials or physical display video materials, etc.) should be sent to the email saituanwei@guet.edu.cn. For matters not covered, please contact us.

Contact person: Teacher Sun, contact number: 0773-2291948.

Appendix:

1. 2024 Artificial Intelligence Application Challenge Topics
2. Application Form for the "2024 Artificial Intelligence Application Challenge" of China-ASEAN Alliance of Universities for Electronic Information Innovation of CAIH

China-ASEAN Alliance of Universities for
Electronic Information Innovation of CAIH



Guilin University of Electronic Technology



31 May, 2024

Appendix 1:

2024 Artificial Intelligence Application Challenge Topics

Domestic track:

1. Development of Gaze Direction Prediction System
2. Development of Road Safety Detection System
3. High-Quality Text-to-Face Image Generation System
4. Intelligent Medical Imaging Diagnostic System
5. Intelligent Traffic Management System
6. Intelligent Agriculture Monitoring and Management System
7. Intelligent Sorting and Handling Robot
8. Small Wheel-Leg Balancing Robot System
9. Intelligent Water Pollution Identification System

International track:

1. Traffic Flow Prediction
2. Intelligent Home Control System
3. Intelligent Waste Classification System
4. Weakly-supervised learning for acute ischemic stroke lesion segmentation
5. Intelligent City Environmental Monitoring and Management System
6. Autonomous Navigation and Environment Perception of Intelligent Mobile Robots

Appendix 2:

Application Form for the "2024 Artificial Intelligence Application Challenge" of China-ASEAN Alliance of Universities for Electronic Information Innovation of CAIH

Work Title						
Team Leader				University		
Grade				Major		
Team Members	Name	Gender	University	Grade	Major	Contact information
Work Introduction (About 1000 words; Including the purpose and basic ideas of the design and invention of the work)						

Innovative Significance (About 1000 words, including product or model innovation, advanced and unique, competitive advantage)				
Expected Outcomes of Work	Name of Outcomes	Main Function	Completion status	Notes