2026UASACTIEEECISOSEOnlineAICompetition
Competition Rules

Organizer: UASACT International Exhibition Co., Ltd.

Guidance ：

- **IEEE CISOSE**
- **University of San Jose Center for Intelligent Complex Systems Research**

Competition Objective

- Foster students' AI literacy, innovative thinking, and practical skills in STEAM education, while encouraging the application of AI technologies to solve real-world problems across diverse fields.
- Fostering Innovative Thinking: Encouraging Students to Apply Creative Thinking to Solve Real-World Problems
- Practicing STEAM Education: Integrating Knowledge of Science, Technology, Engineering, Arts, and Mathematics
- Promoting Cross-Domain Collaboration: Cultivating Teamwork and Interdisciplinary Integration Skills
- Focus on daily life applications: Integrate AI technology with everyday needs and industrial upgrading requirements

Process

- Registration Phase: Complete online registration and submit team materials by June 30,2026.
- Registration website: https://uasact.com/ieee-cisose-ai-compitition-form
- Teams from the Chinese mainland region can register collectively through Zhuhai Action Technology Education Co., Ltd.
- Submissions: Individual applicants must submit their materials via email to the conference's official email address by July 5, 2026 for preliminary review.
- The written review materials should be submitted as electronic attachments via email to the conference judging panel's email address: judge@twqea.org
- Online Competition Review Notice: The conference will announce the online review meeting room and schedule on the official website on July 20,2026, and notify instructors and participants via email.
- Online Competition: To be held and judged online on July 28 – 29,2026.

Award Settings: Each category awards the following prizes based on the judges' scores.

- First Prize: Score of 85 points or above
- Second Prize: Score between 70 and 84 points
- Third Prize: Score of 60 to 69 points

The winning team received one medal, while both the award-winning contestants and their instructors were awarded certificates.

Divide into groups for competition

All tracks are divided into four groups based on participants' age and technical proficiency, with each team consisting of no more than four members. Teams are assigned to their respective categories according to the oldest registered member. Participants must meet the corresponding AI technology application standards specific to their group.

- Primary School Group: The project must utilize basic speech recognition or sensor technology, incorporate at least one AI feature, and employ graphical tools such as Scratch or mBlock. The oldest participant in the team must not have been born before September 2, 2013.
- Junior High School Group: Participants must understand AI principles and utilize image recognition or basic speech technology to complete their projects. The oldest participant in the team must not have been born before September 2, 2010.
- High School Group: Deeply apply sensors, image recognition, or machine learning algorithms to demonstrate innovative solutions. The oldest participant in the team must not have been born before September 2, 2007.
- Advanced Group: Integrates professional AI technology to develop works with commercial value or patent potential. Team members are not restricted by age and can form teams across age groups.

Track Classification

The competition transcends conventional hardware limitations, encompassing four core tracks that span the entire spectrum from foundational technologies to advanced applications.

Artificial Intelligence (AI) Track:

This track focuses on the research and development of core AI technologies and their industrial applications, making it ideal for teams with programming and system integration capabilities. Submissions may include, but are not limited to, the following categories:

- Unmanned Systems and Intelligent Hardware: Including service robots (medical, logistics), industrial robots, drone applications (agricultural pest control, emergency rescue), autonomous driving technology, and smart wearable devices.
- Algorithms and Core Technologies: These encompass computer vision (image recognition), natural language processing (fine-tuning of large language models), machine learning and deep learning, as well as speech recognition technology.
- AI Industry Applications: Applying AI in smart healthcare, smart finance, smart transportation (traffic flow prediction), smart agriculture (pest and disease identification), and smart cities.

Intelligent Services and Systems Engineering Track

This track focuses on data processing, cloud collaboration, and digital twin technologies, emphasizing innovation at the system level. Submissions may include, but are not limited to, the following categories:

- Cloud Computing and Edge Computing: Including cloud-native technologies, edge AI model deployment, and green, low-carbon cloud computing solutions.
- Big Data and Data Engineering: encompasses data governance, privacy protection, data mining and analysis, as well as distributed storage systems.
- Service Science and the Internet of Things: Includes IoT platform architecture and the application of digital twin technology in urban or industrial scenarios.

Innovation, Creation, and Design Track

This competition integrates technical implementation with creative aesthetics, emphasizing product originality and socio-cultural value. Submissions may include, but are not limited to, the following categories:

- Inventive works: Covering mechanical engineering, electronics and electrical engineering (new transmission systems or sensors), materials science, energy and environmental protection, as well as biomedical devices.
- Creative design works: including industrial design (human-computer interaction), architectural and environmental design (green architecture), transportation concept design, and innovative lifestyle products.
- Cultural and creative products: including the revitalization of traditional culture, digital cultural creations (AR/VR-based content and virtual digital avatars), and themed IP derivative designs.

AI Governance and Ethics Track

This competition aims to explore the sustainable development of artificial intelligence at technological, policy, and societal levels, fostering a fair, secure, green, and inclusive AI that maximizes benefits for humanity while adhering to ethical principles. Submissions may include, but are not limited to, the following categories:

- Ethics and Technical Safeguards: This encompasses establishing an AI fairness assessment framework, enhancing data security and personal privacy protection, developing an AI ethics framework, implementing decision support systems, and establishing corresponding education and training programs.
- Policy and Regulatory Governance: This encompasses comprehensive regulatory frameworks covering international cooperation mechanisms, global standard-setting and rules for cross-border data flows, industrial policies, innovation ecosystem development and talent cultivation systems, as well as the establishment of AI risk assessment, compliance reviews, and security certifications.
- Sustainable Development and Social Welfare: This encompasses green AI, the development of low-energy consumption models and energy-efficient training methods, promoting AI applications in environmental protection, bridging the digital divide, and advancing the widespread adoption of AI technologies—particularly in underdeveloped regions—to enhance AI's public utility in public health, educational equity, and emergency response.

List of documents to be submitted for written review

After confirming their registration, participating teams must submit the following three types of electronic files to the official email address judge@twqea.org by July 5, 2026 for preliminary review.

1. Design Proposal

Format: PDF, no more than 20 pages.

Content requirements:

- ✓ Abstract: Design philosophy, core functions, and innovative highlights.
- ✓ Demand Analysis: Define the problem, target users, and conduct a needs investigation.
- ✓ Technical Architecture: Reasons for selecting AI technology, system architecture diagram, and hardware configuration.
- ✓ Implementation Plan: Development process, technical implementation methods, cost breakdown, and solutions to challenges.
- ✓ User Experience: Interface design, interaction processes, and usage scenarios.
- ✓ Testing and Future Prospects: Performance Evaluation, Commercialization Potential, and Social Impact.

2. Show Video

Technical requirements: Resolution above 1080p, MP4 format, with Chinese/English subtitles, duration 3 – 5 minutes.

Structure requirements: Team introduction (30 seconds), Problem context (1 minute), Solution presentation (2 – 3 minutes), Future outlook (30 seconds).

3. Technical Page

Code snippet: The complete and executable source code.

Circuit diagram/model: Hardware connection diagram, product layout design diagram, or 3D model file.

User Manual: An operational instruction document provided for review reference.

2026 UASACT IEEE CISOSE Online AI Competition Scoring Table

☐ Advanced Group ☐ High School Group ☐ Junior High School Group ☐ Elementary School Group

Participating schools:

Player Name:

☐ Artificial Intelligence (AI) Track ☐ Intelligent Services and Systems Engineering Track

☐ Innovation, Invention, and Design Track ☐ AI Governance and Ethics Track

Work Title:

Title	weight	code of points	value	score
Creativity and Innovation	25	The concept is highly original, transcends traditional thinking patterns, accurately identifies problems, proposes effective solutions, and boasts significant commercial value.	22--25	
		It features distinct innovative elements, with novel ideas, clearly defined problems, and reasonable solutions that demonstrate market demand and value.	18--21	
		The proposal demonstrates some creativity but is relatively common; problem identification is generally accurate, the solution is feasible, yet market demand is limited, resulting in average value.	11--17	
		The problem definition is vague, and the solution is inappropriate.	0--10	
Technical Implementation	20	The AI technology is deeply integrated with remarkable effectiveness, featuring a complex technical architecture, high level of integration, a clear program structure, and comprehensive annotations.	18--20	
		When properly implemented, AI technology offers comprehensive functionality, robust technical implementation, seamless integration, sound program architecture, and excellent readability.	15--17	
		The system primarily utilizes AI technology, featuring functional capabilities with basic technical implementation. Its integration is average, with normal program functionality and a fundamental structure.	11--15	
		AI technology is misapplied or ineffective.	0--10	
practicability	15	The design is exquisite and the user experience is excellent, fully meeting user needs.	12--15	
		Well-coordinated design and user-friendly operation, largely meeting user requirements.	8--12	
		The design is crude and inconvenient to use, failing to meet users' actual needs.	0--7	
Briefing and Performance	30	The delivery is fluent and engaging, with accurate responses and rapid reactions.	25--30	
		The explanation is clear and persuasive, capable of answering most questions.	19--24	
		The expression is basically clear and understandable, and it can generally answer questions.	12--18	
		The expression is unclear, difficult to understand, and unable to answer questions effectively.	0--11	
team work	5	Clear division of labor and seamless collaboration	0--5	
Special Bonus Items	10	Environmental Innovation: Offering Significant Environmental Benefits	0--5	
		Cross-domain integration: Successful integration of multiple disciplinary fields	0--5	
Total score:				

Review Signature: ☐ First Prize ☐ Second Prize ☐ Third Prize

Signature of the Chief Judge of the Organizing Committee:

2026 UASACT IEEE CISOSE Online AI Innovation Competition Application Form

Each team may register only 1 to 4 students from the same age group.

Competition Category	☐ Advanced Group ☐ High School Group ☐ Junior High School Group ☐ Elementary School Group
track	☐ Artificial Intelligence (AI) Track ☐ Intelligent Services and Systems Engineering Track ☐ Innovation, Invention, and Design Track ☐ AI Governance and Ethics Track
Work Title:	
Book Introduction:	
city ：	school name ：
tutor ：	cellphone ：
Supervisor's email:	

Player Name	Current School	grade	ID Card Number	Parent Name	Parental Phone

Registration recipient:

Date received: Month Day, 2026