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OBJECT MANAGEMENT GROUP®

It's Time to Define Standards for Artificial Intelligence

The time has come to define standards in artificial intelligence (AI). Such standards will greatly accelerate and improve the creation of useful AI applications by reducing the amount of low-level interchange, integration, or interfacing work currently required.

Object Management Group® (OMG®) has established an initiative in AI standardization. OMG is the best place for industry, academia, government and non-profit organizations to come together to define such standards because of its seminal work in knowledge representations, ontology and robotics, as well as the best practices in standards creation it has developed over the last 30 years.

OMG AI Standards Strategy

The OMG AI strategy is based on three beliefs:

- Since the renaissance of AI at the beginning of the millennium, an expanded scope of AI has emerged. AI now reaches into many domains and integrates new technologies such as ontologies, vision recognition, analytics and machine learning for the industrial IoT, and more.

- When a technology area reaches a certain degree of maturity, standards can enable innovation by freeing organizations from having to constantly worry about the "plumbing" of systems or re-inventing platform techniques and tools.

- OMG is uniquely placed to lead this effort because it has a proven process; it has developed a series of foundational capabilities that can bootstrap the effort; and it covers many industry domains that can benefit from AI standards.

Read our paper

Learn more about why it's time to create AI standards. Agree? Disagree? Let us know.

https://www.omg.org/hot-topics/artificial-intelligence-standards.htm

AI has matured and its successful application can be enhanced by the development and adoption of standards. OMG has the capability and motivation to successfully expand its activities in this domain.

We encourage the AI community—industry, academia, government and non-profit organizations—from all domains and regions to get involved in this effort by contacting us, participating in our AI-related activities and events, and joining OMG to take an active role.

Task Force Mission and Scope

The OMG Artificial Intelligence Platform Task Force promotes the adoption of specifications that standardize foundational capabilities of artificial intelligence.

Among the goals of the task force is freeing AI technology suppliers as well as end users from interoperability and interchange limitations with respect to models, languages and data, and enabling them to focus instead on development of advanced AI applications.

For the purpose of the OMG AI Task Force, AI is defined broadly and includes, but is not limited to:

- Modeling of AI artifacts
- Machine learning, deep learning and neural networks
- Image understanding, speech recognition, and computer vision
- Robotic Systems
- Virtual and augmented reality
- Autonomous and autonomic systems and agents
- Knowledge representations
- Natural language processing (NLP)
- Security, privacy, social and other ethical aspects of AI.

Join OMG and Join the Conversation

Help write the specifications

Join the Task Force

Vote on Technology Adoption

See the most recent developments at
https://www.omg.org/hot-topics/artificial-intelligence-standards.htm

About OMG

The Object Management Group® (OMG®) is an international, open membership, not-for-profit computer industry standards consortium. OMG Task Forces develop enterprise integration standards for a wide range of technologies and an even wider range of industries. OMG modeling standards enable powerful visual design, execution and maintenance of software and other processes. www.omg.org