

Artificial Intelligence Platform Task Force

Welcome to the AI Platform Task Force Wiki

This wiki complements the AI PTF marketing page on the main OMG website. It is intended as a place to keep the community (OMG members and non-members alike) informed of the activities derived from OMG's 2019 initiative on Artificial Intelligence, and consolidated into a new Platform Task Force chartered in September of that year. It is focused on how we *operate* as a Task Force.

The vision behind the AI PTF is to create and "animate" an OMG-based AI center, coordinating and complementing AI-related efforts in other groups (such as Ontology, Retail, Healthcare. and more) and especially considering aspects that can benefit from standardization – making OMG the place to come for AI technology standardization.

Go to the Private Area

Charter and History of the AI PTF

Charter (adopted on 27 Sep 2019, revised on 13 Dec 2019)

OMG's Artificial Intelligence Platform Task Force (AIPTF) will promote the adoption of specifications that standardize foundational capabilities of artificial intelligence.

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

In the context of this charter, Artificial Intelligence 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*

The purpose of the AIPTF includes development of foundational specifications that support AI in the above broad sense.

The AIPTF may, when appropriate, generate discussion papers, RFIs or RFPs or recommend technologies for adoption. It will also collaborate with other OMG subgroups to identify and document use cases and interoperability requirements for AI, and identify the need for AI-related additions or revisions to those groups' existing and emerging specifications. It will seek to identify external stakeholders, including other standards development organizations, and partner with them as needed.

History

The history of OMG's efforts related to AI are summarized on the History of OMG's AI Initiative page.

Co-Chairs

- Claude Baudoin (cébé IT & Knowledge Management)
- Isabell Kunst (Xephor Solutions)

Bobbin Teegarden (OntoAge) is co-chair emerita (2019-2023) and her contributions are appreciated.

The co-chairs are collectively reachable at the address ai-chair@omg.org.

Mailing list

OMG maintains a mailing list, ai@omg.org. To be added (or removed, or to change your address)

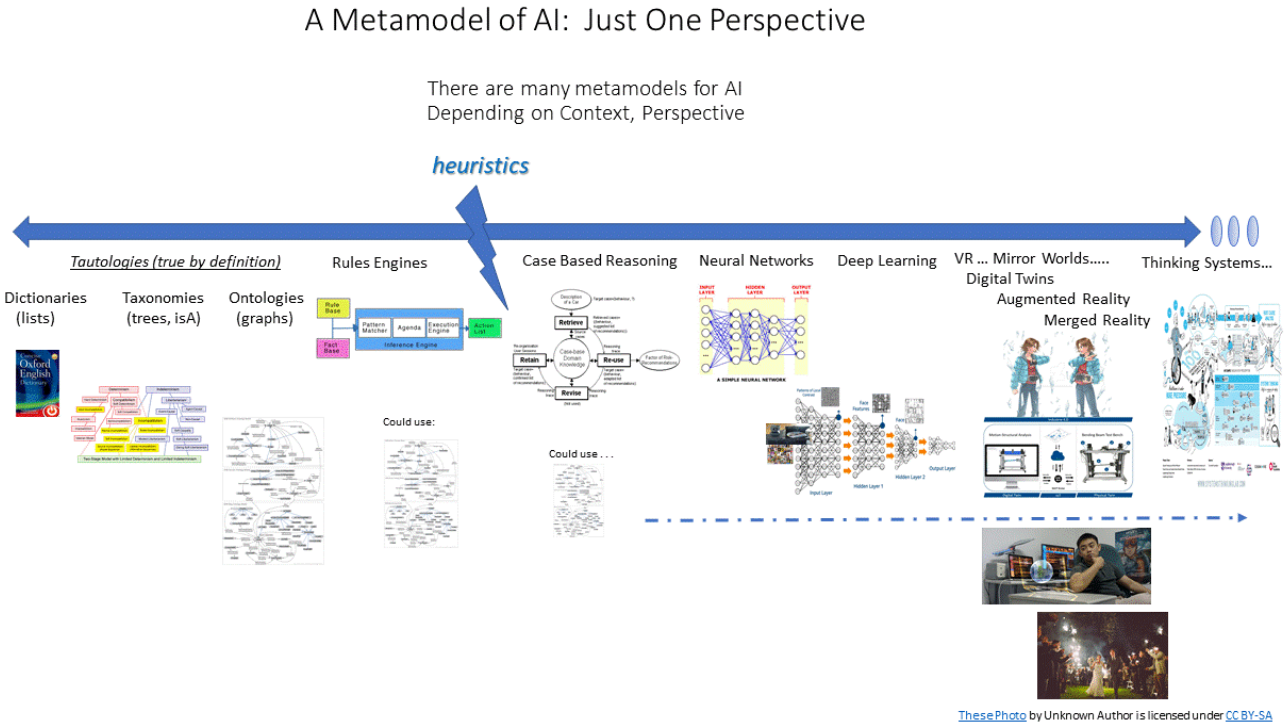
please click here.

We welcome great ideas, emerging AI technology, and new AI standards, bring your digital twin and join us!

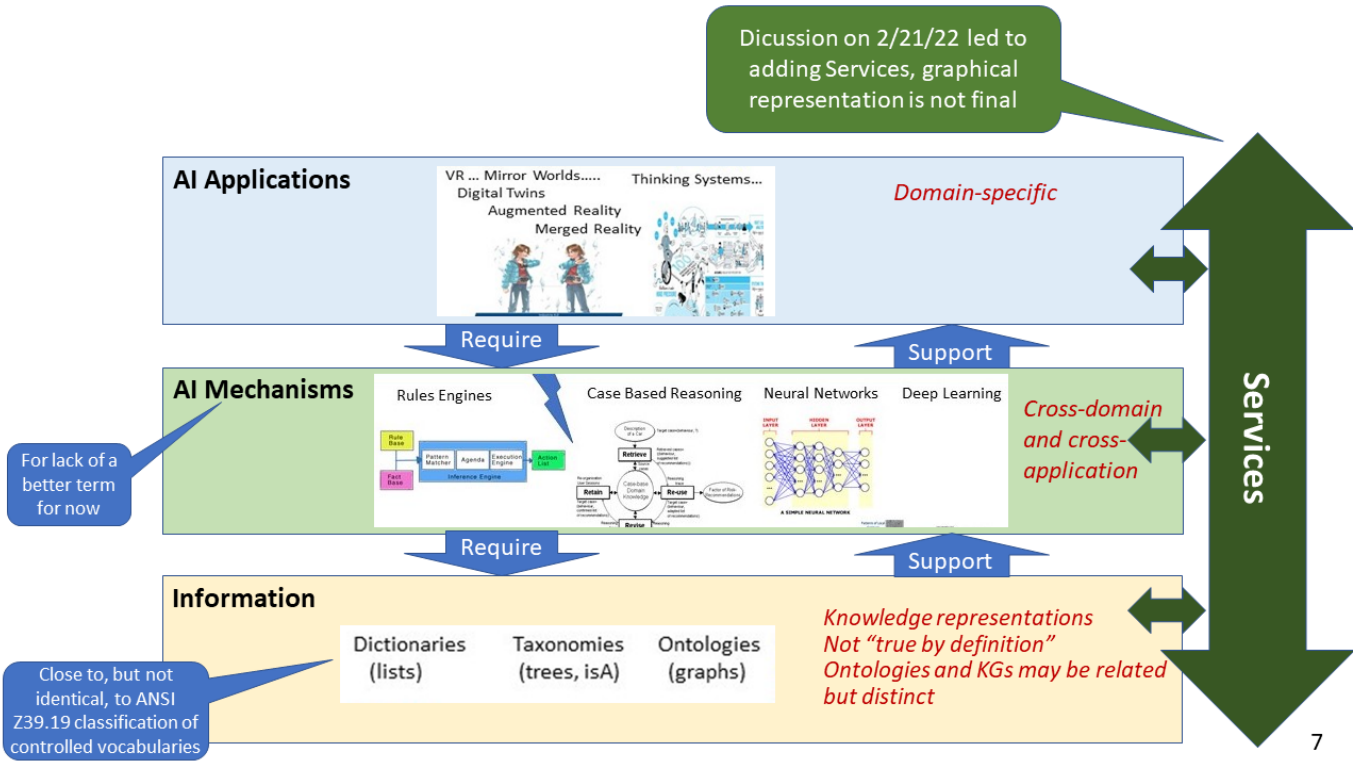
Scope of AI Technologies

Work has started on an AI taxonomy. You can explore it visually here.

An “AI metamodel” (this term has been critiqued, since it seems to be more of a taxonomy than a metamodel) of the range of technologies that are “in scope” for the AI PTF was proposed during the Agent PSIG meeting in June 2019 and is shown below (click on the figure to enlarge it). The left hand side of the diagram is more about knowledge representations, the right-hand side about AI capabilities or applications based on those representations.



This model was further refined during interim conference calls, noting that it mixes concepts of information representation, “mechanisms” of AI, and applications of AI. This has led to the three-tier architecture shown below.



Past Meetings

See the **Record of Past AI PTF Meetings**.

Future Roadmap

The **Roadmap of AI PTF Activities** comprises several components:

- Potential work items (such as RFIs, RFPs or discussion papers) that were suggested during meetings
- Ideas for future meetings/events
- A list of organizations that could contribute to our work

Non-OMG Events

Unite.AI maintains a list of conferences and exhibits of potential interest to members. The scope of their calendar entries extends to robotics and data science

Note that any indications of a physical location in the coming months is highly subject to change until the COVID-19 pandemic is under control. Moreover, when an on-site conference is changed to a virtual one, the dates may also change.

Those who attend any external AI-related event are strongly encouraged to share their notes through our mailing list of for posting on this wiki.

References

OMG AI Bibliography

AI Landscape Report by the European Union Observatory on Standards (EUOS)

Standard for Artificial Intelligence and Machine Learning (AI/ML) Terminology and Data Formats (IEEE-SA Project P3123)

What's Next for AI Systems & Language Models – a discussion with Ilya Sutskever of OpenAI on ML and explainability

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