

## SPECIAL CALL FOR PAPERS

04 – 06.11.2025 ANAHEIM | USA

The **embedded world Exhibition & Conference** is the world's premier event for the embedded systems industry. It brings together researchers and developers, industry and academia from all disciplines of the embedded systems ecosystem and drives the evolution of complex systems and its manifold innovative aspects.

The **embedded world Conference North America in collaboration with the Edge AI and Vision Alliance** is calling for proposals for a special embedded vision and machine perception session.

Embedded vision and machine perception refers to the ability of embedded systems to perceive their environments through optical or other sensors, coupled with appropriate algorithms. Recent years have seen a rapid expansion in the use of these technologies across a wide range of products ranging from kitchen appliances to automobiles, enabling improved safety, autonomy, efficiency and ease of use.



The **special embedded vision and machine perception session** will focus on techniques, trends and applications relevant to the practical implementation of embedded vision and machine perception. Topics may include:

- Case studies of embedded vision and perceptual AI-based solutions
- Image and non-image sensors and techniques, including lidar, radar, time-of-flight, stereo, audio
- Techniques for training and deployment of deep neural networks
- Building systems with vision language models, large multimodal models, large language models and AI agents
- Best practices in selecting AI/CV technologies and techniques
- Understanding and selecting processors, sensors, lenses, algorithms and development tools
- Software stacks for embedded vision-based AI systems
- Overcoming scaling challenges in embedded vision and perceptual AI
- Training data collection, curation, annotation, generation, augmentation
- MLOps—deploying and maintaining models in production

[▶ https://www.embedded-world-na.com/special-cfps](https://www.embedded-world-na.com/special-cfps)

**CONTACT:** Edge AI and Vision Alliance, [speakers@edge-ai-vision.com](mailto:speakers@edge-ai-vision.com)

**Important Dates:**

Submission until **25th July 2025**, selecting the topic “**11.7 Edge AI and Vision Alliance**”.

Authors will be notified **by early September 2025**.