

A View from the Summit (Part 1)

Jeff Bier Founder, Edge AI and Vision Alliance President, BDTI May 22, 2024



Solving Real-World Problems at Scale













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Alliance Member Companies







Inspire and Empower Product Creators









- Learn about new technologies, techniques and capabilities
- Build skills and know-how
- Connect with colleagues, suppliers, open source projects, standards and other resources

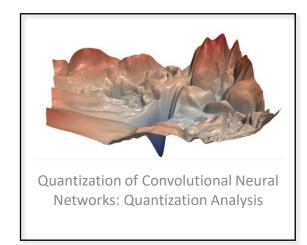


For Product Developers





Navigating the Future: How Avnet is Addressing Challenges in AMR Design





Conversation with GenAl Nerds on Generative Al At the Edge

www.edge-ai-vision.com





Frontiers in Perceptual AI: First-person Video and Multimodal Perception

First-person or "egocentric" perception requires understanding the video and multimodal data that streams from wearable cameras and other sensors. The egocentric view offers a special window into the camera wearer's attention, goals, and interactions with people and objects in the environment, making it an exciting avenue for both augmented reality and robot learning. The multimodal nature is particularly compelling, with opportunities to



Helping Companies Grow





- Gain insights into trends in markets, technologies, applications and standards
- Connect with customers,
 suppliers and ecosystem partners
- Become visible as a thought leader







See us at booth #504

Visit membership.edge-ai-vision.com









































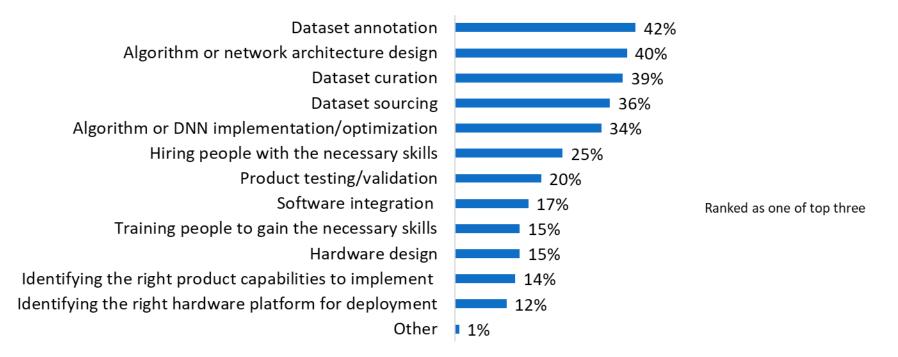




chnology

Areas of Computer Vision/Machine Perception Product Development Most Challenging





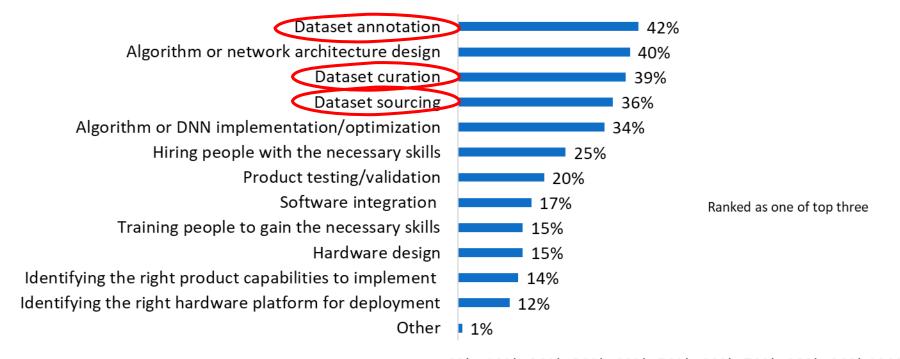
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Source: Edge Al and Vision Alliance, Computer Vision and Perceptual Al Developer Survey, November 2023



Areas of Computer Vision/Machine Perception Product Development Most Challenging



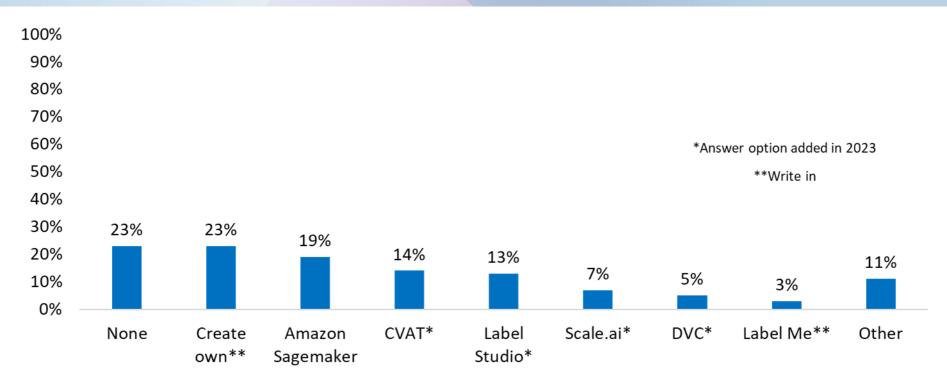


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Tools Used for Managing and/or Automating Training Data





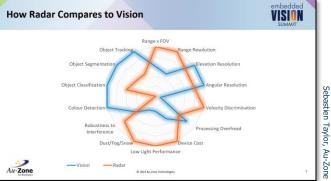


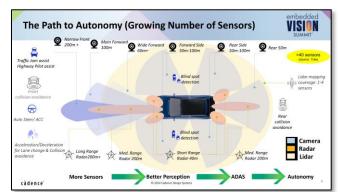
Challenges – Need for Multimodal Perception















How Will Generative Al Change Perceptual Al?





https://youtu.be/Vq DcZ xc E



Multimodal LLMs at the Edge: Are We There Yet?



Sally Ward-Foxton *EE Times*



Adel Ahmadyan Meta Reality Labs



Jilei Hou Qualcomm Technologies



Yong Jae Lee
University of
Wisconsin-Madison
and GivernyAl



Pete Warden *Useful Sensors*

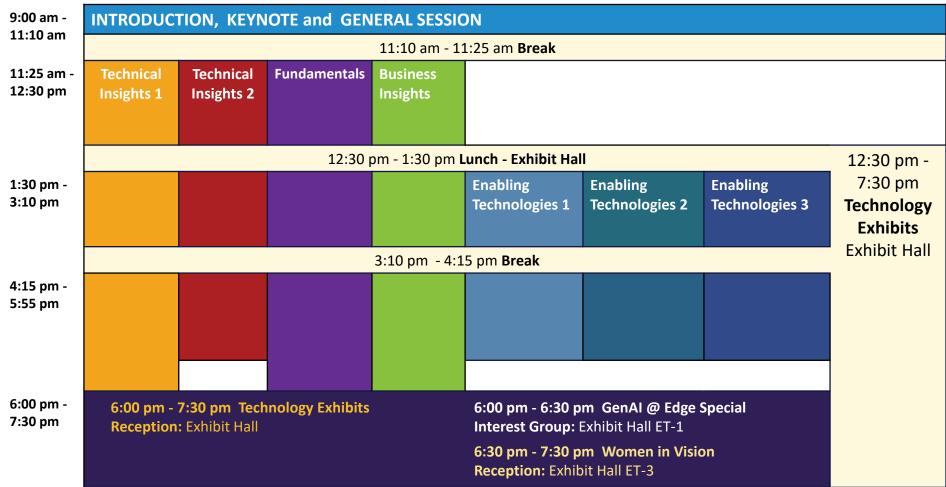


Thursday 10:20 am

Making the Most of Your Day

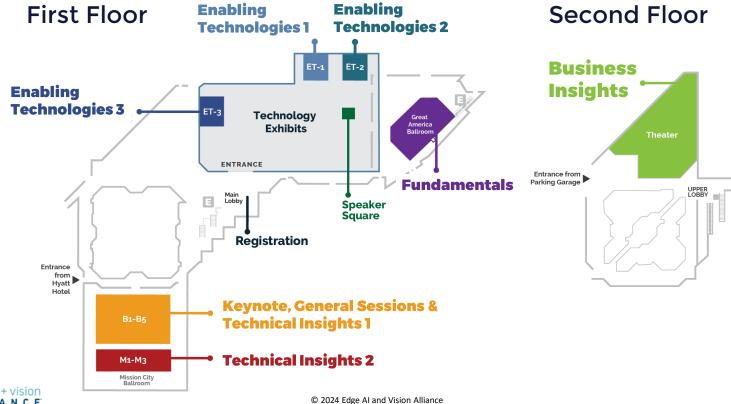


Wednesday Schedule



Facility Map

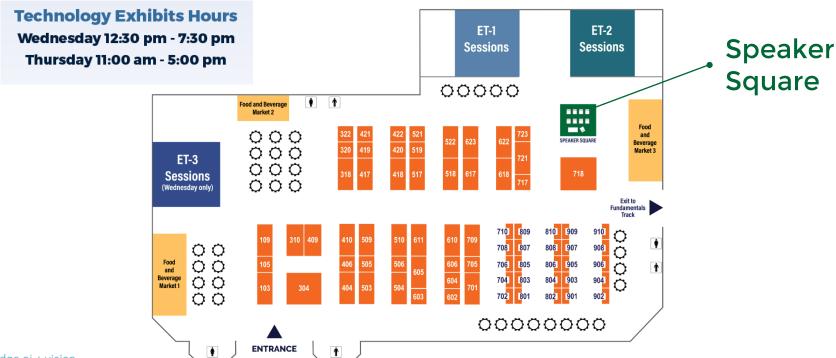




Facility Map



Technology Exhibits





Wednesday Speaker Office Hours (in the Speaker Square)





1:30 pm – 2:15 pm Yong Jae Lee (University of Wisconsin-Madison and GivernyAI) Vision language models, research directions



2:30 pm – 3:15 pm Harro Stokman (Kepler Vision Technologies) Elder care; creating a vision-based product and business



3:30 pm – 4:15 pm Vaibhav Ghadiok (Hayden AI) Smart cities; model-to-product



4:30 pm – 5:15 pm Rakshit Agrawal (Ryddle AI) Transformers; model-to-product



5:30 pm – 6:15 pm István Fehérvári (BenchSci) Vision language models; getting from model to product





3:30 pm – 4:15 pm Vikhyat Chaudry (Buzz Solutions) Infrastructure applications; model-to-product



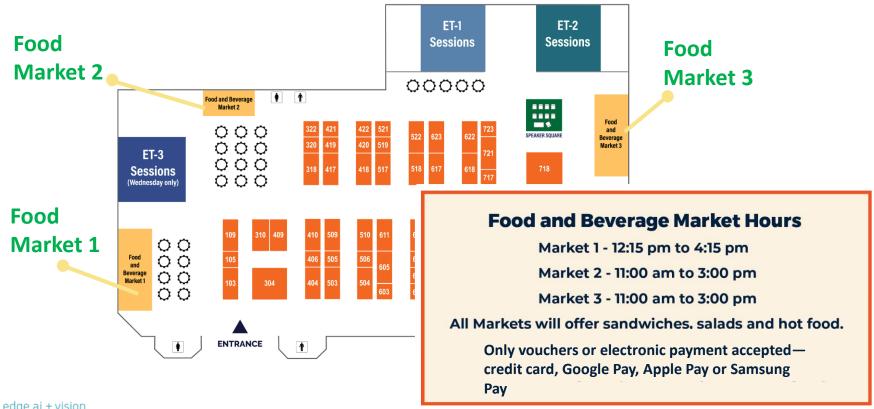
4:30 pm – 5:15 pm Will Glaser (Grabango) Retail applications; creating a visionbased product and business



5:30 pm – 6:15 pm Anatoly Kotlarsky (Zebra Technologies) Retail checkout transformation to computer vision and Al

Enjoy Food and Refreshments Visit the Food Markets in the Exhibit Hall





Download the Summit App







- Scan the QR code and install the Attendee Mobile app
- 2. Allow Attendee Mobile to send you notifications
- 3. Then search for "Vision"

QR code not working? **Visit bit.ly/24sumapp**

Questions? Stop by Registration for help!



Check Out the Exhibits!



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WEDNESDAY, MAY 22 6:30 PM - 7:30 PM | EXHIBIT HALL ET-3







Please fill out your Embedded Vision Summit survey!

Completed surveys will be entered into a drawing for one of three \$100 Amazon gift cards.





Keynote:

Learning to Understand Our Multimodal World with Minimal Supervision



Yong Jae Lee Associate Professor, Department of Computer Sciences, University of Wisconsin-Madison and CEO, GivernyAI



General Session:

Scaling Vision-Based Edge AI Solutions: From Prototype to Global Deployment



Maurits Kaptein
Chief Data Scientist, Network Optix and
Professor, University of Eindhoven

