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## **Semantic Mapping Based on Vision**

## Abstract

Though it has been one of the earliest goals of artificial intelligence, computer vision is still in its infancy, with machines still having difficulty competing with a toddler when it comes to figuring out what it sees. Despite advances in segmentation, database models, statistical analysis, and deep neural networks, we still have a long way to go. As the drive toward autonomous vehicles increases, the importance of improving computer vision is paramount.

## Biography

Dr. Hart is a professor with the College of Natural Sciences at the University of Texas at Austin and a postdoctoral fellow affiliated with the Building-Wide Intelligence Project and the Learning Agents Research Group in the Department of Computer Science. He also leads UT Austin's RoboCup Team, an annual international robotics competition to challenge and promote AI. He was a postdoctoral fellow at the CARIS Lab at the University of British Columbia where he worked on CHARM (Collaborative Human-Focused Assistive Robotics for Manufacturing). Dr. Hart's work has appeared in New Scientist, BBC News, Business Standard, CBS SmartPlanet, El Mundo, GE's Focus Forward Films, Ideacity, and Creative Mornings Vancouver.