Matthew Johnson-Roberson

Professor at Carnegie Mellon University

Pittsburgh, PA, US

Matthew Johnson-Roberson's research goal is to develop robotic systems capable of operating in complex dynamic environments.

Biography

Matthew Johnson-Roberson is the director of the Robotics Institute at Carnegie Mellon University. He has worked on a NASA project on satellite swarms to to demonstrate how satellites might track and communicate with each other and has conducted research with NASA's Innovative Advanced Concepts (NIAC) on folding space structures. His research goal is to develop robotic systems capable of operating in complex dynamic environments. To this end, he seeks to expand and improve the perceptual capabilities of autonomous systems. He has focused on the processing and interpretation of three-dimensional data and his work has sought to push the bounds of scale and resolution in 3D reconstruction, segmentation, machine learning and robotic vision. Johnson-Roberson is the co-founder of Refraction AI, a robotics startup for last mile delivery.

Industry Expertise

Education/Learning, Construction - Residential

Areas of Expertise

Folding Space Structures, Robotic Vision, 3D Reconstruction, Artifical Intelligence, Robotics/Autonomous Vehicles, Machine Learning, Satellite Swarms, Robotic Systems

Event Appearances

Robotics (2022) TC Sessions

Education

University of Sydney Ph.D. Robotics

Carnegie Mellon University B.S. Computer Science

Accomplishments

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