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Cloud Robotics

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Abstract

Around the world, researchers are exploring the idea of robots that rely on cloud-computing infrastructure to access vast amounts of processing power and data. This approach, which some are calling "cloud robotics," would allow robots to offload compute-intensive tasks like image processing and voice recognition and to download new skills on-demand. This talk will describe the current state of the art and examine some of the implications for the future of robotics.

Bio

Dr. Roppel earned the PhD degree in Electrical Engineering from Michigan State University in 1986. Since that time he has been on the ECE faculty at Auburn University. His research areas include mobile robots, neural networks, and sensor systems. His work has been funded by the Army Research Office, National Science Foundation, Air Force Office of Scientific Research, the Defense Advanced Research Projects Agency, NASA, and various foundations and commercial organizations. His work has been published in a variety of journals and conferences. He is co-author of a recent textbook, *Fundamentals of Electrical Engineering*. He is faculty advisor to SPARC – the Student Projects and Research Club. He is actively engaged in outreach to K-12 with the intent to use robotics to stimulate interest in STEM topics among young people.

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