

# Challenges and Opportunities for Co-robots and Computing

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Computing, including Robotics, accounts directly for \$1.29 trillion of the US GDP.

Growth in this area is expected to continue to accelerate in the next 10 years, driven by coordinated efforts by industry and academia and strategic investments by the Federal Government and Congress. This presentation will discuss the emerging strategy and specific initiatives and directions in computing for all initiatives—including new develop-

ments in cyber-human systems, programmable matter, the challenge to revolutionize future computing, as well as a robotics roadmap—through development of new computing platforms inspired by our increasing understanding of the human brain and human cognition. A brief overview of some relevant research at UAA will also be provided, including systems/robots capable of tracking

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