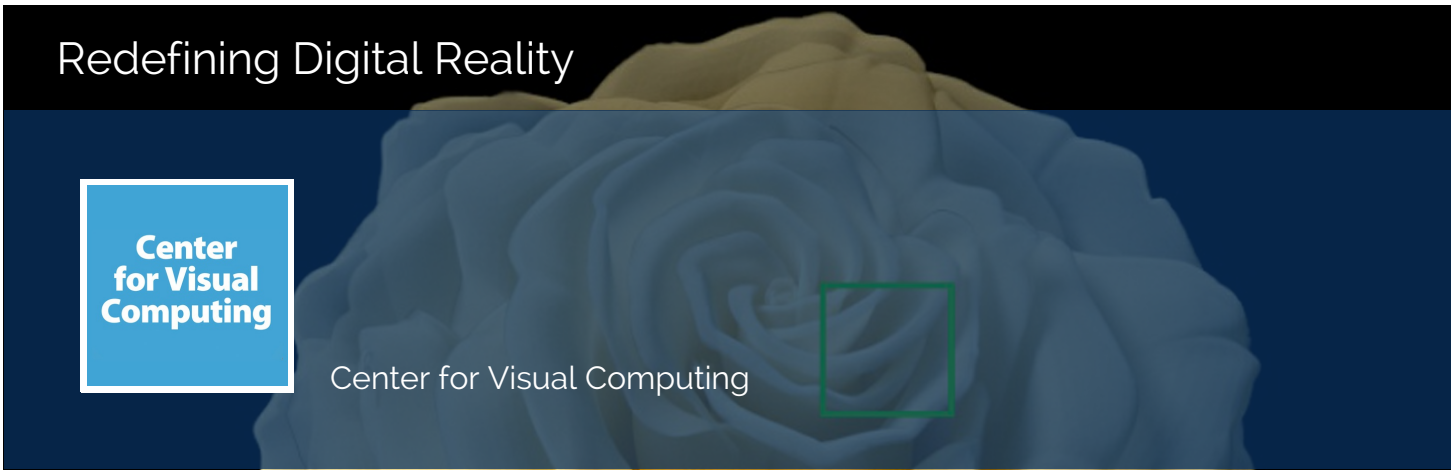
Redefining Digital Reality



CURRENT RESEARCH

Advancing visual computing to change the way we experience reality

With rapid advancements of computers, cameras, and mobile devices, we are nearing a future where virtual reality is no longer virtual. Although we are still capturing 2-dimensional images with our cell phones and have recently just experienced the growth spurt of social media, we are on the cusp of a revolution in visual computing, quickly venturing into another phase of the digital age where the ways in which we capture, display, and share images will entirely change to accommodate more realistic experiences. To facilitate these breakthroughs, the Center for Visual Computing at the University of California, San Diego (UC San Diego) brings together experts in computer graphics, computer vision, computational imaging and augmented reality to make significant, long-term contributions to visual computing and imaging technologies.

Directed by Professor Ravi Ramamoorthi, the UC San Diego Center for Visual Computing is motivated by three key trends: the increasing push towards mobile computing, the ability to create photorealistic images, and computer vision and scene understanding. The visual computing technologies being developed at the Center can transform the definition of capturing an image, shifting photography from 2D to 3D, allow people to have completely realistic virtual experiences in real-time, and wire machines to understand and perceive the natural world to assist humans. At UC San Diego, researchers have contributed very realistic imagery to the creation of movies like *Avatar* and *The Lord of the Rings* or games such as Halo, and were recognized for their techniques with the Technical Academy Award. Now, in collaboration with the Cognitive Science department, the Qualcomm...

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AFFILIATION

University of California, San Diego

AWARDS

- Citation on 2007 Siggraph award
- Presidential Early Career Award, 2008

RESEARCH AREAS

Technology, Computational Sciences / Mathematics, Informational Sciences / Internet, IOT, Devices, Data

FUNDING REQUEST

Your contributions will support talented researchers at the UC San Diego Center for Visual Computing as they exploit advances in augmented reality and cognition-inspired computer vision to change the way we see and interact with the world. Leaders in rendering or creating realistic imagery, the team has had broad impact in the animation, imaging and interactive industries. Donations will be critical in accelerating technological breakthroughs!