

# **Computing the Future of Biomedicine**

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## Abstract:

Computers have changed the way we live, work, and even recreate. Now, they are transforming how we think about and treat human disease. Advanced techniques in biomedical computing, imaging, and visualization are already changing the face of biology and medicine in both research and clinical practice. These techniques have the potential to provide comprehensive models and views of the human body in unprecedented depth and detail. As a result, biomedical computing and visualization will help produce exciting new biomedical scientific discoveries and clinical treatments. In this talk, I will discuss the state of the art in biomedical computing, medical imaging, and visualization research and present examples of their vital roles in cardiology, neuroscience, neurosurgery, and radiology.