



# Virtual Prototyping & Bio Manufacturing in Medical Applications

*Bopaya Bidanda, Paulo Jorge Bártolo*

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Virtual and physical prototyping is rapidly emerging as an active research area that integrates fundamental principles of engineering with a view towards solving complex problems in the human body in a medical environment. Preliminary research results show significant potential in effecting major breakthroughs ranging from a reduction in the number of corrective surgeries needed to the ‘scientific miracle’ of generating tissue growth. Virtual & Physical prototyping can broadly be divided into three categories: Modeling, Manufacturing, and Materials. *Virtual Prototyping & Bio Manufacturing in Medical Applications* focuses primarily on the modeling and manufacturing in the field. The principles utilized draw heavily from the more traditional engineering fields including mechanical engineering, industrial engineering, civil engineering (structures), electrical engineering and bio engineering. Written for researchers, professionals, engineers and academics seeking a comprehensive overview of virtual prototyping and rapid prototyping, *Virtual Prototyping & Bio Manufacturing in Medical Applications*, discusses in detail applications related to surgery, medical imaging, tissue engineering, bone replacement, and more.

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