

Austract A well-mimicked human model is useful to improve surgeon's skill of complicated surgeries and to evaluate new medical devices. The human model with artificial organ modules is expected not only to mimic anatomical characteristics and mechanical properties of a human, but also to be integrated with sensors for quantitative evaluation of skills, we called the human model, "Bionic-Humanoid". Here, we focused on an eye surgery and proposed an eye model which is eye part of Bionic-Humanoid. For training the ILM peeling task using micro forceps in retinal surgery, fundus part of the eye model and the human model, "Bionic-Humanoid". Here, we focused on an eye surgery and proposed an eye model which is eye part of the succeeded to the human model. For training the ILM peeling task using micro forceps in retinal surgery, fundus part of the succeeded to the human biotechart of the succeeded for the succeeded to the human biotechart of the retinal. We then succeeded to the human biotechart of the retinal biotechart of the succeeded to the human biotechart of the succeeded to the human biotechart of biotechart of the succeeded to the human biotechart of the succeeded to the human biotechart of biotechart of the succeeded to the human biotechart of the succeeded to the human biotechart of biotechart of the succeeded to the human biotechart of biotechart of the succeeded to the human biotechart of the succeeded to the biotechart of the succeeded to t Sionic-Humanoid, Bolinc-Humanoid, Frete, we locused on an eye surgery and proposed an eye Sionic-Humanoid, For training the ILM peeling task using micro forceps in retinal surgery, fund a an artificial retina and inner limiting membrane (ILM) which is superficial layer of the retina ablish an artificial bionic eye with fundus part having artificial ILM which can be peeled by m ssembled in an artificial skull of the Bionic Humanoid.

ンマコ ・イクロ・ナノ機械理工学専攻 新井研究室