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激光扫描在头面部软组织三维重建和测量中的应用

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Application of laser scanning for three-dimensional reconstruction and anthropome

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摘要

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摘要 近年来,随着科学和计算机技术的发展,人们对头面部软组织的研究已经由二维发展到三维,用于三维重建的技术也越来越多,包括直接测量法、莫尔云纹法、形态分析法、激光扫描法、结构光测量法、立体摄影测量技术、光栅投影测量法和电子计算机断层扫描技术等。其中,激光扫描是目前比较先进的技术之一。尽管受很多因素的影响,但笔者相信随着技术的不断改进和完善,激光扫描在头面部软组织三维重建中将得到更加广泛的应用。本文将从激光扫描技术的原理、技术构成、特点及其在头面部软组织三维重建方面的应用等内容进行综述。

关键词: 激光扫描 三维重建 头面部软组织

Abstract: In recent years, with the development of the science and the computer technology, people on the right track facial soft tissue research has developed from the two-dimensional to three-dimensional, and more and more technologies can be used for the three-dimensional reconstruction, including direct measurements, moiré topography, morphanalysis, laser scanning, structured light, stereophotography, grating projection, computed tomography, and so on. Laser scanning is one of the more advanced technologies. Although affected by many factors, we believe that as technology continues to improve and perfect, laser scanning in the three-dimensional reconstruction of facial soft tissue will be more widely used. This review is about the principle, the technical composition, the characteristics and the applications of laser scanning technology.

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