#### 技术与方法

# 基于图像处理的树叶面积测量系统

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收稿日期 2004-11-23 修回日期 2004-12-28

摘要 以数字图像处理技术为基础,对数码相机拍摄的含有参照硬板和树叶的照片进行图像分析处理, 提出了获取树叶的实际面积测量系统的一种独特实现方案.采用此方案开发出相应的应用软件, 应用于树叶面积的测量计算,获得十分满意的结果.

关键词 图像处理 图像分割 树叶面积测量

分类号 094-337

# An Image Processing Based System for Leaf Area Measurement

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**Abstract** A novel implementation solution for leaf area measuring system is presented. The solution based on image processing techniques obtain the real area of a leaf by processing and analy-zing the digital photos that contain the leaf and a reference plane board. Based on the implementation solution, the authors have developed an application software to measure leaf area and the measure results are very satisfactory.

**Key words** Image processing; Image segmentation; Leaf area measurement

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