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## Horticultural Research (Japan)

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## **Development of Automatic Segmentation Software f Measurement of Area on the Digital Images of Plant**

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We developed automatic segmentation software for efficient measuring images of plant organs. This software enables to measure area size ( large number of images with less effort. The developed software has (1) We developed the technique for dividing plant organs and back§ difference of digital images. An accurate region extraction of plant ( compared with a conventional binarization method. (2) We develop automating repetitive tasks to improve the task efficiency of image a functions enable efficient software operations and the processing of analysis. We applied the developed software to analysis of difference pattern of petals in *Ipomoea nil* (L.) Roth. We found that the softw differences compared with conventional visual comparison methods software is available for use free of charge by downloading at http://www.kazusa.or.jp/picasos/.

Key Words: <u>area measurement</u>, <u>image analysis</u>, <u>petal senescence</u>. <u>varietal differences</u>

[PDF (1310K)] [References]

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