

Technical Working Party for Agricultural Crops

Forty-Sixth Session

Hanover, Germany, June 19 to 23, 2017

TWP/1/10**Original:** English**Date:** June 9, 2017**Technical Working Party for Vegetables**

Fifty-First Session

Roelofarendsveen, Netherlands, July 3 to 7, 2017

Technical Working Party for Ornamental Plants and Forest Trees

Fiftieth Session

Victoria, Canada, September 11 to 15, 2017

Technical Working Party for Fruit Crops

Forty-Eighth Session

Kelowna, Canada, September 18 to 22, 2017

Technical Working Party on Automation and Computer Programs

Thirty-Fifth Session

Buenos Aires, Argentina, November 14 to 17, 2017

IMAGE ANALYSIS*Document prepared by the Office of the Union**Disclaimer: this document does not represent UPOV policies or guidance***EXECUTIVE SUMMARY**

1. The purpose of this document is to report on developments concerning the use of image analysis in the examination of distinctness, uniformity and stability.
2. The TWPs are invited to note the invitation of China for the experts to join its project for the improvement of software for image analysis and the plans of the TWC to discuss image analysis during its thirty-fifth session.

DEVELOPMENTS IN 2016Technical Working Party on Automation and Computer Programs (TWC)*Demonstration of Chinese software on image analysis*

3. The TWC, at its thirty-fourth session, held in Shanghai, China, from June 7 to 10, 2016, received a demonstration of the Chinese software on image analysis and noted the series of functions, including the management of a photo database, photo editing, automatic analysis of shape and color, direct comparison between objects and analysis of similarity rate of shape and color (see document TWC/34/32 "Report", paragraphs 96 and 97).
4. The TWC noted that China planned to improve the conditions to acquire images (e.g. light source and exposure, shape and color scales) allowing accurate direct comparison of images and automatic selection of similar varieties from a photo database. The TWC welcomed the invitation by China for other experts to join the project for improvement of the software.

DEVELOPMENTS IN 2017

Technical Committee (TC)

5. The TC, at its fifty-third session, held in Geneva from April 3 to 5, 2017, noted the plans of the TWC to discuss image analysis during its thirty-fifth session, to be held in Buenos Aires, Argentina, from November 14 to 17, 2017.

6. The TWPs are invited to note the invitation of China for the experts to join its project for the improvement of software for image analysis and the plans of the TWC to discuss image analysis during its thirty-fifth session.

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