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| International Union for the Protection of New Varieties of Plants |  |

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| Technical Working Party for Agricultural Crops  Forty-Sixth Session  Hanover, Germany, June 19 to 23, 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 | TWP/1/10  Original: English  Date: June 9, 2017 |

image analYsIs

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# Executive summary

The purpose of this document is to report on developments concerning the use of image analysis in the examination of distinctness, uniformity and stability.

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 2016

## Technical Working Party on Automation and Computer Programs (TWC)

### Demonstration of Chinese software on image analysis

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).

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)

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.

*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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