**3DPheno-Seed&Fruit Software Installation Manual**

**1. INTRODUCTION**

The software is designed for bulk extraction of seeds or fruit phenotypes from X-ray CT images. It is created based on the open-source visualization toolkit (VTK), programming software Microsoft Visual Studio 2015 and Matlab2014a. Our software needs to run under the Microsoft windows10 system.

**2. SOFTWARE DOWNLOAD**

The software is free for academic purpose and available at GitHub (http://github.com/XXX)

**3. SOFTWARE INSTALLATION**

Click the zip file to install the software to your computer. After unzipping the file, please open the  folder that contains our software (3DPheno-Seed&Fruit.exe) and various environment configuration files.

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**3.1 System Environment Configuration**

Firstly open the **configuration folder**, and then click  to install the Microsoft Visual C++ 2005 runtime libraries (If your computer has never been installed with Microsoft Visual C++ 2005 runtime libraries before, you will need to restart your computer after configuring it. If you have installed this runtime before, this step can be skipped.)

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**3.2 Installation Options**

Click **myappinstaller\_mcR.exe** to install the plug-ins needed to run the software and the configuration environment required for the software (You need to connect to the network and close the network firewall).

(1) Select installation location.

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(2) Install the MATLAB environment.

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(3) Confirm the installation

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**3.3 File and Shortcut/Icon Locations**

If you do not choose a custom installation, the plug-in and plug-in configuration files will by default be placed in a file named C:\Program Files\. The executable software is in the 3Dpheno-Seed&Fruit folder, which has the same name as the folder. You can use it when the installation is complete. Please watch the video provided by us before using it. The video introduces the operation procedures and functions in the video.