Supplementary Table 1: characteristics of the main freely available software packages for the processing of image data in agriculture *

tool name	access type	interface	thermal img *	multispectral img *	raw image processing	orthomosaic input	vegetation indices	multi-sensor alignment	ML algorithms	notes
OpenDroneMap	subscription-based	GUI	no	yes	yes	yes	yes	no	no	
Orfeo ToolBox	open-source	GUI/CLI	no	yes	yes	yes	yes	yes	yes	
QGIS	open-source	GUI/CLI	yes	yes	no	yes	yes	yes	yes	
PlantCV	open-source	CLI	yes	yes	no	yes	yes	no	yes	
GRABSEEDS	open-source	CLI	no	no	no	no	no	no	yes	no UAV-imagery
BerryPortraits	open-source	CLI	no	no	no	no	no	no	yes	no UAV-imagery
FIELDimageR	open-source	scripts	yes	yes	no	yes	yes	yes	no	in R
GRID	open-source	GUI	no	yes	no	yes	no	no	yes	
PREPs	free	GUI	no	no	no	yes	no	no	no	only Windows
IHUP	free	GUI	yes	yes	no	yes	yes	yes	yes	only Windows
Drone2Report	open-source	CLI	yes	yes	no	yes	yes	yes	yes	

* it is assumed that all software packages can process RGB image data: optional multispectral and thermal images capabilities are indicated in the table