

Segmentation and recognition of individual trees

Using lidar (laser) data, individual trees can be segmented, counted and mapped, allowing information on the farm to be associated per tree.

As "Shrimp" drives along a row of an orchard, 3D maps are built from laser data. From this, we can segment and recognise individual trees, which is useful for data management. For example, when combined with our yield estimation techniques, it allows us to measure and associate the yield of each individual tree. This can be used to track information, such as yield, over time and it can be used actively, for example, to target autonomous or computer assisted spray trucks with spray programs for each tree.

