1. **A Study of Multi-Task and Region-Wise Deep Learning for Food Ingredient Recognition**: This paper provides an insightful analysis of three compelling issues in ingredient recognition. This paper describes two methods for ingredient recognition. This paper presents a throughout analysis of both methods, including their strength and limitation in ingredient recognition. Dataset used is called VIREO Food-251, primarily consisting of Chinese dishes. This paper proposes to couple food categorization problem, which is a single-label problem, together with ingredient recognition, which is a multi-label problem, for simultaneous learning [multi-class learning]. Four different deep architectures for multi-task learning of food category and ingredient recognition are used. The architectures are modiﬁed from existing deep models, includingVGG-16, ResNet-50, ResNet-101, and SENet-154. Accuracies ranging from 60-85%.
2. **The Analysis of Plants Image Recognition Based on Deep Learning and Artificial Neural Network:** The main content of this paper is to extract plant leaf features and identify plant species based on image analysis. The recognition process is mainly divided into three steps: image processing, image feature extraction and image classiﬁcation. After image processing and feature extraction, we need to classify images according to their target features: K-Nearest Neighbour (KNN), Support Vector Machine (SVM), Decision Tree (21) and Artiﬁcial Neural Networks (ANN). Hopefield network and Kohonen network is used.