Retrospective Document
Sprint-1

Work & Test Progress

Milestones:
>   *1. Caffe Server Construction - %100*
>   *2. Improving design, code and performance in Android - %100*
>   *3. Constituting the Most Effective Feature-Vector for Leaf Detection - %100*

Finalized Tests as Part of the Milestones Planned for this Sprint:
>   *- Multiple Users - Single Image Identification Test is applied to the server.*
>   *- Single User - Multiple Image Identification Test is applied to the server.*
>   *- Background Elimination codes are tested.*
>   *- The algorithm of image-processing code is completed, integrated, tested.*
>   *- Multiclass classification experiments are performed on different combinations of test-training sets and feature vectors using Matlab SVM library.*
>   *- Android application design has been tested by supervisor and team leader.*
>   *- Application performance is tested and it is increased.*

Team Progress

So far so good.

Left-overs (Backlog)

All milestones are completed successfully in this sprint.

Next Sprint

Milestone #1: Development of Our Own Neural Network for Classification
During the sprint:
>   *> A Neural Network (NN) will be designed and implemented.*
>   *> And it will be trained&tested.*
At the end of the sprint:
>   *> We will have a NN along with other classification methods of ours. We will use it for the classification of species that we have.*

Milestone #2: Deploying Full Client-Server Architecture
During the sprint:
>   *> Current Client structure will be implemented on Android side.*
>   *> Caffe Tree Identification Server - Android Device communication will be established.*
>   *> Multiple Android devices will be used for testing in local area network.*
>   *> "tree_identification_v4.caffemodel" will be released.*

At the end of the sprint:
> *> Caffe Tree Identification Server, which works successfully in local area network, with full Android device communication support will be ready.*

Milestone #3: Translation of Image Processing Codes and Algorithms to Python Language
During the sprint:
> *> Python language with OpenCV library will be learned.*
> *> Background elimination algorithm will be implemented in Python language.*
> *> Feature extraction algorithm will be implemented in Python language.*

At the end of the sprint:
> *> Background elimination and feature extraction algorithms will be ready to combine them with the other parts of the project.*

Milestone #4: Developing friendly user guide tutorial for Android application and fixing some bugs
During the sprint:
> *> How to design and implement user guide tutorial will be searched.*
> *> User guide tutorial will be implemented scene-by-scene.*
> *> Some existing bugs will be fixed.*

At the end of the sprint:
> *> Well designed and friendly user guide tutorial will be ready to use, and some bugs exist in application will be fixed.*

Comments

It was a perfect sprint for our team.

Assistant's Evaluation

Assistant's (Team Leader's) comments regarding to this completed sprint.

Supervisors's Evaluation

Supervisor's (Team Leader's) comments regarding to this completed sprint.