**A Study Plan in Department of Computer Science and Engineering**

**--- Herviana ---**

**Research Topic**

In taking Master Degree, I will focus to do research related to blind people technology. Here, I am more focus on Optical Characteristic Recognition (OCR) for recognizing character of image text documents and scanned documents that is going to apply in JAWS screen reader application, software that many blind people use to help them using computer and mobile phone independently. The aim of this study is to help blind people accessing information from image text file or scanned document which saved in PDF format or JPEG format that become the lack of JAWS to read those documents. JAWS application can be able to read documents in word format only and still need a lot of improvement in reading image or PDF1. So, by doing this research hopefully can help them to gain information from image text and scanned documents. The area of study is computer vision, image processing, programming, information retrieval, machine learning, and OCR.

*1 Freedom scientific Inc, “JAWS”, 2016,* [*http://www.freedomscientific.com/Products/Blindness/JAWS*](http://www.freedomscientific.com/Products/Blindness/JAWS)

**Master Accomplishment**

In pursuing Master Program, I am going to take it in Department of Computer Science and Engineering in Seoul National University (SNU), South Korea, and finish it within two years. To accomplish Master Degree in SNU we have to take at least 24 credits within two years and maximum 12 credits in each semester. So, this is my strategy to finish it based on curriculum.

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| Semester | Things to do |
| 1st Semester  (Sep 2017 – Feb 2018) | I am going to focus in strengthening my fundamental knowledge and reading relevant reference related to my research topic. Here, I am going to taking four courses which are:   * *Topic in Programming Language 3 Credits* * *Machine Learning 3 Credits* * *Computer Vision 3 Credits* * *Advance Algorithms 3 Credits*   ***Total Credit : 12 Credits***  In this semester, I will also attend in conference and seminars that related to my research both national and international level. |
| 2nd Semester  (Mar 2018 – Aug 2018) | I am going to deepen my knowledge and take four courses to accomplish the minimum credit for Master Degree. The courses are:   * *Advance Software Engineering* *3 Credits* * *Advance Programming Language* *3 Credits* * *Topic in Big Data System 3 Credits* * *Reading and research 3 Credits*   ***Total Credit : 12 Credits***  In this semester, I will also attend in conference and seminars that related to my research both national and international level if available. Besides, I will start to learn how to write publication paper. |
| 3rd Semester  (Sep 2018 – Feb 2019) | I am going to join in Vision Laboratory and do some project research related to my research topic. In this Laboratory, many project related to that topic had been investigated under Professor Guheen Kim, PhD as the leader professor. He has published both local and international papers. So, this is the best place to write my first publication paper and do my research. I am also going to make intents communication with my advisor about my final research topic. |
| Last Semester  (Mar 2019 – Aug 2019) | I am going to focus and work hard in finishing my final research to accomplish my master degree. |

**Other activities in Korea**

During my time in Korea, I want to get involved in various communities in campus to help me getting along with Korean’s life, such as PERPIKA (Indonesia Student Association in Korean) and SNUPS study club. PERPIKA has various activities such as writing skill training and festival that help me to get along with other Indonesian, Korean, and International students and communities. SNUPS (SNU Problem Solvers) is an academic society that studies algorithm & data structures and participate in programming competitions such as ACM-ICPC, so it will useful for helping me to improve my programming skill which is really important for my research. During summer or winter break, I want to join in social activities as volunteer to help society in rural area, so I can use my time for a good thing and as my valuable experience during holiday time in Korea.