|  |
| --- |
|  |
| **Thesis for the [Doctor/Master of *types of degree*]** |
|  |
| ***Thesis Title*** |
|  |
| ***Author Name*** |
|  |
| **Graduate School of Hanyang University** |
|  |
| ***August 2022*** |
|  |

|  |
| --- |
|  |
| **Thesis for [Doctor/Master of *types of degree*]** |
|  |
| ***Thesis Title*** |
|  |
| **Thesis Supervisor: *Gil Dong HONG*** |
|  |
| **A Theis submitted to the graduate school of**  **Hanyang University in partial fulfillment of the requirements for the degree of *Master of Science*** |
|  |
| ***Gil Dong HONG*** |
|  |
| **August 2022** |
|  |
| **Department of** |
| **Graduate School of Hanyang University** |
|  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | | | |
| **This thesis, written by *Gil Dong HONG,***  **has been approved as a thesis for the *Doctor of Philosophy.*** | | | | |
|  | | | | |
| **August 2022** | | | | |
|  | | | | |
|  | **Committee Chairman:**  **Committee member:**  **Committee member:**  **Committee member:**  **Committee member:** |  | **(Signature)**  **(Signature)**  **(Signature)**  **(Signature)**  **(Signature)** |  |
|  | | | | |
| **Graduate School of Hanyang University** | | | | |
|  | | | | |

**Chapter1. Introduction**

**Chapter1. Improtance of Research**