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| MAPÚA UNIVERSITY | RECOMMENDATION FORM | Document No.: FM-EEC-16-02<br>Effective Date: July 28, 2017<br>Supersedes: EECET-01-01-11 |

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|---|---|---|---|
| DEFENSE | ☑ **Proposal** | ◯ **Final** | |
| TITLE | Object Detection for Inventory Stock Counting | | |
| DATE /TIME/ ROOM OF DEFENSE: | October 15. 2021 / 1:00 PM / Zoom | | |
| ADVISOR | **1.** Dr. Jennifer C. Dela Cruz | **2.** | **3.** |
| PANEL MEMBER | **1.** Engr. Charmaine Paglinawan | **2.** Engr. Jessie Balbin | **3.** Engr. Leonardo Valiente Jr. |
| FINAL RECOMMENDATION | ◯ **No Revision**<br>◯ **Reject** | ☑ **Minor Revision**<br>◯ **Major Revision** | |
| COURSE INSTRUCTOR | Dr. Jennifer C. Dela Cruz | | |

**LIST OF RECOMMENDATIONS:**

1. Provide various camera heights and locations
2. Include characterize the image for vertical orientation
3. Add application on title of Object Detection for Inventory Stock Counting
4. Specify a deeper problem and significance of the study
5. if possible, apply SSD algorithm and compare its performance with YOLO
6. Include performance metrics of the alogorithms
7. Include table for noise reduction
8. Include sample output images after application of the algorithms
9. include "remarks" column in the tables.
10. Specify the features of the objects to be detected and show how the algorithms detect each feature
11. Include test for different lighting condition
12. Include and discuss all the technical process of each step of the YOLO and SSD

**(Use the back sheet, if necessary)**

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|---|---|---|
| Isaiah Francis E. Babila | Dr. Jennifer C. Dela Cruz<br>JENNIFER C. DELA CRUZ 2021.10.15 16:41:10 +08'00' | Engr. Charmaine Paglinawan<br>Digitally signed by CHARMAINE C. PAGLINAWAN Date: 2021.10.15 16:25:54 +08'00' |
| **Proponent** (Name and Signature) | **Advisor** (Name and Signature) | **Panel Member** (Name and Signature) |
| Shawn Anthonie E. Villasor | | Engr. Jessie Balbin<br>JESSIE BALBIN 2021.10.15 16:24:23 +08'00' |
| **Proponent** (Name and Signature) | **Advisor** (Name and Signature) | **Panel Member** (Name and Signature) |
| | | Engr. Leonardo Valiente Jr.<br>Leonardo Valiente Jr 2021.10.15 16:30:11 +08'00' |
| **Proponent** (Name and Signature) | **Advisor** (Name and Signature) | **Panel Member** (Name and Signature) |
| **Proponent** (Name and Signature) | | |

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