

Artificial Intelligence 2019 20 - Project Final Deliverable (Deliverable 3) and Presentation

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The main goal of this project is to apply techniques of artificial intelligence (AI) to a realistic problem. You are being required to transfer the style of a famous painter to photographs taken by students in your group.

1. The final result of your group should be a machine that is trained for style transfer. It should receive a standard photograph file and return a modified version of that photograph, but with the style of a famous painter.
2. Final deliverable (Deliverable 3) - 15/11. You can submit a modified version of your model. You can change it completely. For instance, perform exhaustive training and optimization of hyperparameters and code. Submit the performance metrics you have obtained and your final results. If your quantitative metrics are not a good representation of quality for this problem, consider exhaustive qualitative evaluation. As an example, you could zoom in some regions of interest and compare actual paintings with your resulting image.
3. Format: A report using the [IEEE conference article template](#) (on 15/11) + a five-minute presentation (on 19/11). You will be required to test your code on a new photograph, that will be given to you by us. Tip: more than five slides (not counting a title slide) may be too much. You are expected to correct mistakes you have made and improve the performance of your solution.
4. Grading.
 - Creativity of your solution, 20 %
 - AI + Style Transfer Background, 30 %
 - Solution architecture, 20 %
 - Solution performance, 15 %
 - Resulting images, 15 %
5. Contest. You can participate with one of your images (original photo + modified version). A jury will evaluate the artistic quality of your result. The best entries may be displayed in social media. If you want, you can share your Instagram username for possible tagging/mentions. The overall best entry will obtain a grade bonus. The theme for participants of the contest is: UANDES campus.