

Matthew I. Swindall, Timothy Player, Ben Keener, Alex C. Williams, James H. Brusuelas, Federica Nicolardi, Marzia D'Angelo, Claudio Vergara, Michael McOske & John F. Wallin, Dataset Augmentation in Papyrology with Generative Models: A Study of Synthetic Ancient Greek Character Images.

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1. Introduction. - 2. Related work: 2.1. Machine learning image datasets; - 2.2. Generating synthetic images with machine learning. - 3. Domain overview: papyrology: 3.1. Image dataset: AL-ALL and AL-PUB; - 3.2. Image Dataset: AL-SYNTH. - 4. Research goal. - 5. Study 1: modeling with synthetic instances: 5.1. Model type 1: generative model; - 5.2. Model types 2 & 3: categorical classification models; - 5.3. Datasets; - 5.4. Generative model results; - 5.5. Categorical classification model results. - 6. Study 2: Augmenting creativity with synthetic instances: 6.1. Methodology: web survey; - 6.2. Findings. - 7. Conclusion.

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