

Review of: "Harnessing the Power of Generative Adversarial Networks (GANs) for Novel Batik Designs: An Exploration of Lightweight GANs (LGANs) for Automatic Batik Design"

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Potential competing interests: No potential competing interests to declare.

This research suggests employing Generative Adversarial Networks (GANs), particularly Lightweight GANs (LGANs), as a strategy to rejuvenate the batik industry in Malaysia and Indonesia. It tackles the concerning decline in interest among young artists and aims to provide economic opportunities for the economically disadvantaged B40 community. By automating the creation of novel batik designs using LGANs, it seeks to blend tradition with modernity for the economic growth of the country.

However, the current paper has the following issues that need to be addressed. In the current version, this paper cannot be accepted.

Comments:

1. Introduction needs improvement; rather than discussion on theoretical aspects of batik design and industry, authors should focus more on their approach of GAN and how it solves the said problem.
2. Authors must provide a complete graphical framework of GAN, including all the steps and the parameter settings used in this research.
3. Major contributions of the paper are missing. Authors are advised to highlight major contributions very clearly in the introduction section.
4. The literature review section is missing. Authors are advised to include this section, which should highlight all the previous works in this direction, including the latest research articles from the last 2 years.
5. Authors are advised to include a methodology section in which the experimental setup and parameter settings used for training and deploying GANs must be highlighted.
6. The results section is weak. Authors are advised to compare their proposed GAN model with other related deep learning models from the existing research. I believe that it will provide this paper a positive edge and validate the results mentioned in the paper.
7. To compare and validate the results with existing research, standard evaluation measures should be used like accuracy, precision, recall, f-score, etc.