















#### IV. CONCLUSION

Smartphone colorimetry is a suitable aid to objectify the colors of Batik fabrics. It is a simple, inexpensive, and reliable on-site analysis for nonexperts in the color matching process. The Batik fabric colors measured using the smartphone application Colorimeter were different from those obtained with the dedicated colorimeter device. However, the precision of the color measured by the smartphone was within the threshold of acceptability of color differences. As the color measurement is sensitive to the distance from the target and lighting conditions, further investigations can be carried out to provide accurate Batik classifications based on smartphone colorimetry.

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