

## **ABSTRACT**

### ***EXPLORATION OF DIGITAL PATTERN COMPOSITION INSPIRED BY PAKSI NAGA LIMAN FOR TEXTILE PRODUCTS***

By

**OKTAVANIA WARAPSARI**

**NIM: 1605150056**

**(Program Studi Kriya Tekstil dan Mode)**

*The development of digital pattern processing techniques is influenced by the emergence of pattern processing software, one of which is JBatik with the characteristics of self-similarity in overlapping and repetitive patterns formed from the application of fractal formulas, so that it has the potential as a media processing composition patterns that is combined with other pattern processing software for creating pattern module. This study aims to combine the potential of the advantages and disadvantages of each of the digital, vector-based software to process pattern variations and based on fractal formulas to compose new patterns inspired by Paksi Naga Liman.*

*The data search methods are qualitative and quantitative methods in the form of literature studies, interviews, observations, and conducting experiments. The author conducted a literature study related to pattern processing software and datas related to Paksi Naga Liman. The author's interview method conducted with the management at the Keraton Kasepuhan in Cirebon, some batik Paksi Naga Liman artisans and CDO (Chief Design Officer) of Batik Fraktal. The observation method was carried out to look at the patterns in the Kereta Kencana and Paksi Naga Liman batik carts, as well as the features in CorelDraw and JBatik vector software. Based on the exploratory method, it can be concluded that JBatik software has the advantages, that is the creation of overlapping and repetitive patterns that are formed from the use of fractal formulas can accelerate the process of processing patterns composition.*

*The results and conclusions shows that the creation of pattern composition using JBatik software produces a single pattern, so it has the potential to be combined with the advantages of other vector-based digital software, making the process easier and does not require a long time. By proposing one of Indonesia's unique ornaments namely Paksi Naga Liman, it is expected to be able to make a variety of new patterns by displaying interesting and different visuals to be applied to textile products in the form of scarf.*

*Keywords: Digital Pattern Composition, JBatik Software, CorelDraw Software, Paksi Naga Liman, Scarf Textile Products*