[](http://crossmark.crossref.org/dialog/?doi=10.33153/dewaruci.v17i2.4147&domain=pdf)Motion Characteristics Of Ngremo Munali Fatah Dance Using Biomechanical Analysis Through Motion Capture On Traditional Dancers

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| ABSTRACT |  |  |
| Ngremo Munali Fatah's dance is a traditional East Javanese dance that has cultural and aesthetic values. The unique characteristics of autodidact and didactic dancers are different and this research aims to preserve the culture by identifying these differences through biomechanical analysis using motion capture. This research uses Rudolf Laban's dance motion theory and Laban Movement Analysis (LMA) shape aspect to explore the characteristics of motion in dance embodiment. This mixed-method research combines qualitative and quantitative methods, by collecting data through participant observation, in-depth interviews, and Labanotation. The results showed that the movements of Ngremo Munali Fatah's Dance have distinctive characteristics, including the measurement of biomechanical parameters, step patterns, gestures, and body movements, comparison of dance styles, and cultural preservation. This research contributes to East Javanese culture by accurately documenting traditional dance movements, becoming material for dance learning, choreographic development, and cultural documentation.  [https://licensebuttons.net/l/by-sa/3.0/88x31.png](http://creativecommons.org/licenses/by-sa/4.0/)This is an open-access article under the [CC–BY-SA](http://creativecommons.org/licenses/by-sa/4.0/) license |  | Article History  Received 2020-03-31  Revised 2020-09-23  Accepted 2021-03-01  Keywords  Ngremo Dance  Biomechanics  Labanotation  Traditional Dancer  Cultural Preservation |