

**Penentuan Status Gizi dan Menu Makanan Atlet Karate Menggunakan Metode  
K-Nearest Neighbor (K-NN) (Determination of Nutritional Status and Food Menu  
of Karate Athletes Using K-Nearest Neighbor (K-NN) Method)**  
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**ABSTRACT**

*Nutrition is a substance needed by the body for the growth process, to maintain the health of the body, perform normal functioning of the body system and can produce energy. Each person also has different nutritional needs, karate athletes for example, committee matches or words equally must produce a lot of energy. The problem faced in particular the karate athlete at the state Polytechnic of Jember does not have nutritional management, so karate athletes do not know the value of nutrition and what food they should eat to support every activity.*

*The problem was made by implementing the K-Nearest Neighbor (K-NN) method. With that system athletes will know the value of nutritional status and food menu that should be consumed karate athletes according to the activity that is lived. Testing the Blackbox obtained the result that the system was able to run according to the expected scenario. For the testing of UAT (User Acceptance Testing) obtained a result of 79.6% which can be interpreted that the system includes good criteria.*

**Key words** : Nutrition, Information Systems, K-Nearest Neighbor