

CONCENTRATION CLASSIFICATION OF INFORMATION DEPARTMENT USING SUPPORT VECTOR MACHINE (SVM) ALGORITHM

ILHAM NUR INZANI

*Informatics Study Program, Faculty of Science & Technology
University of Technology Yogyakarta
Jl. Ringroad Utara Jombor Sleman Yogyakarta
E-mail : ilhaminzani0604@gmail.com*

ABSTRACT

The background of this research is the number of students majoring in informatics who are still constrained in choosing a major concentration. Of the 20 informatics students who have been interviewed by researchers, 11 students are still having difficulties or undecided in choosing the concentration of their majors. Informatics has several major concentrations, including Web Mobile (WEM), Intelligent Systems (SCR), Computer Security (KKO) and others.

The objective of this research is to prove that the Support vector machine (SVM) classification algorithm can classify the concentration of the informatics department. It is hoped that the results of the classification system can be considered by students in choosing the concentration of their majors. The data used in this study is data on the academic value of informatics students at the University of Technology Yogyakarta in the class of 2017.

The accuracy results obtained from the system that has been made are 88%. This study uses 151 data of student academic scores. From the dataset used, it is divided into 90% training data and 10% test data.

Keywords: Informatics, Classification, Support Vector Mechine