STUDENT BASED ANN PERFORMANCE ESTIMATION WITH CONTENT INTERACTION FOR TRAFFIC SAFETY E-COURSE

Prof. Dr. M. Melih İnal
Kocaeli Üniversitesi
minal@kocaeli.edu.tr

Okt. Uğur Yıldız
Kocaeli Üniversitesi
uguryildiz@kocaeli.edu.tr

Abstract
Estimation of the success of students especially for Electronic Courses (E-Course) defined in Moodle Learning Management Systems (LMS) is important in terms of the courses they will choose in the future. In this study, it is aimed to estimate the performance of each student with Artificial Neural Networks (ANN). The performance of each topic which is examined with materials by every student is measured with using the number of slides and time which is spent on it. These performance measurements are scored by 100 according to the number of questions. Quizzes are applied for evaluation of the each 14-week content in Traffic Safety E-course conducted by Informatics Department at Kocaeli University. The first 8 weeks of the obtained data were used in the estimation training of the YSA classifier defined for each student. By testing the performance of the student for the remaining 6 weeks; the achievement was estimated by considering the number of slides followed and the total time spent for the related subjects and as a result guiding idea was aimed to give about every student.

Keywords: Distance Learning, E-Learning, MOODLE, LMS.