

Video-based course material for teaching Data Mining

Péter Jeszenszky^a

^aFaculty of Informatics, University of Debrecen
jeszenszky.peter@inf.unideb.hu

Abstract

This paper presents a new and comprehensive video-based course material for teaching Data Mining that is developed at the Faculty of Informatics of the University of Debrecen as part of the *Gyires Béla Informatika Tananyag Tárház* project. The course material covers a wide range of topics including data pre-processing, classification and regression, association analysis, and clustering. It consists of tutorial videos that demonstrate how to use data mining techniques in practice, and also comprises an accompanying book. Experiments shown in the tutorial videos are carried out in RapidMiner and SAS Enterprise Miner. Thus, this educational resource is also a RapidMiner and a SAS Enterprise Miner tutorial. The mission of the developers is to provide a worldwide accessible educational resource to support the teaching of Data Mining courses, thus, the videos and the book will be available both in English and Hungarian. The paper provides an overview of the content and also an insight into its development.

Keywords: Data Mining, RapidMiner, SAS Enterprise Miner, education

MSC: [Information systems] Information systems applications—Data mining, [Social and professional topics] Professional topics—Computing education