Edin Osmanbegović  
University of Tuzla  
Faculty of Economics  
Univerzitetska 8,  
75000 Tuzla,  
Bosnia and Herzegovina  
edin.osmanbegovic@untz.ba  
Phone: +38761101741  
  
Mirza Suljić  
JP EP BiH d.d. Sarajevo,

ZD Rudnici #8220;Kreka&#8221; d.o.o. Tuzla  
Mije Keroševića 1,

University of Tuzla  
Faculty of Economics  
Univerzitetska 8,  
75000 Tuzla,  
Bosnia and Herzegovina  
mirza.suljic@kreka.ba  
Phone: +38761672907  
  
Haris Agić  
Pedagoški zavod Tuzlanskog kantona  
Bosne Srebrene 119,  
75000 Tuzla,  
Bosnia and Herzegovina  
agich59@hotmail.com  
Phone: +38761109899

A REVIEW OF ESTIMATION OF SOFTWARE PRODUCTS DEVELOPMENT COSTS

Abstract

In the modern business and management of business processes, the standardization of procedures allows the creation of added value, increasing competitiveness and success in business of an organization. Evaluation of the budget for software development is crucial to the success of an IT project, because the inability to make a realistic assessment leads to bad project plans, customer dissatisfaction, poor quality of software products, and reduced profits. In order to minimize such situations as much as possible, making accurate and reliable software cost estimation should be carried out at all stages of the project life cycle. Although, so far, there have been published hundreds of research article focusing on the application of different methods of budget estimates of the product, there is no comprehensive review of the current situation or review of research trends in the budget estimates of the software product. This paper aims to create a framework for estimation of costs of development software products by providing  an overview of the most influential researches, the most influential articles published in WoS database, the most used keywords in searching the articles, as well as review of the estimation techniques used in budget estimates of the software product.

**Keywords:** Software cost estimation, software cost prediction, keyword analysis, estimation techniques

Dr. Edin Osmanbegovic received the degree in electrical engineering from the University of Tuzla, in Bosnia and Herzegovina. He received the Ph.D. degree in business informatics from the University of Tuzla, in Bosnia and Herzegovina in 2009. Currently, he is a professor at University of Tuzla, in Bosnia and Herzegovina. His research interests include Business informatics and Digital Economy.

M.Sc., Mirza Suljić received the degree in electrical engineering from the University of Tuzla, in Bosnia and Herzegovina. He received the M.Sc. degree in intelligent systems from the University of Tuzla, in Bosnia and Herzegovina in 2011. Currently, he works for Coal mines company “Kreka”, in Bosnia and Herzegovina. His research interests include intelligent systems, information systems and data mining.

Dr. Haris Agić received the degree in mathematics from the University in Sarajevo, Faculty for natural and mathematics sciences, Department for mathematics. He received the Ph.D. degree in management in education from the University in Novi Sad, in Serbia in 2009. Currently, he is a adviser for education & extern partnership – assistant in teaching of mathematics at Pedagogical institute of Tuzla, in Bosnia and Herzegovina. His research interests include Management.