

SPORTS SUCCESS PREDICTION MODELS IN TEAM SPORTS OF FOOTBALL, BASKETBALL, HANDBALL AND VOLLEYBALL

Abstract

The main determinant of success and mission of sporting industry is competition quality and attractiveness of primary and complementary sports product. Analysis of mega trends indicate that the plan will be based on the successful development of the sports organizations of top sports achievements in this century, where the innovative models of management of sports organizations have a very important role. That is why we based this research on application of scientifically objectified methodology of prediction model creation in team sports organizations (football, basketball, volleyball and handball) in Sarajevo Canton during 2003/04 season. Within the frame of these sports we achieve sustainable development on the market. Using multiple regression analysis, actually, stepwise method of predictor inclusion in prediction model, we objectified and confirmed sports success prediction model according which it is possible to reliably design and develop sports organization management models of team sports sustainable development. Within a frame of this statistical procedure, coefficients of multiple correlations and regression (beta) coefficients were calculated and the selection of independent variables that most contribute to its prediction was conducted. Based on percentage value of described criteria determinacy variance it was concluded that model 8 presents sports success prediction model of team sports organizations/clubs of (football, basketball, volleyball and handball) in Sarajevo Canton during 2003/04 season. Significant percentage of described predictor variable variance, titular of right to ownership in prediction model of sports success indicates significant presence of sports organizations dispose over property they hold. According analysis results it was determined that scientific model of sport success prediction has valuable predictive power considering the sum of totally described variances in ambient conditions of external environment which confirms scientific basis of designing and objectifying prediction models.

Key words: design, prediction, model, sport success
