

Assessment of School Effectiveness Using Multilevel Models

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Abstract

In recent years, great attention has been given to the so-called ‘performance indicators’, which are primarily used for institutional comparisons. Education and health are the areas in which these indicators are widely applied, serving the needs of modern societies for highly qualified rendering of services.

In this dissertation we are engaged in the area of education and our main target is to assess the effectiveness of Greek schools and explore those factors that affect students’ performance in the Greek National Entrance Exams for Universities and Technological Institutions. The data analyzed have a hierarchical structure in which schools are nested in prefectures and students are nested in schools. For this reason, multilevel analysis is required, while adjustments for the existing achievements of students must be made so that the results are not insufficient and misleading.