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Subjective evaluation of acoustical quality of lecture rooms with respect to the quality of the sound reinforcement system and the level of background noise

Sanja Grubesa, Marko Horvat and Hrvoje Domitrovic Faculty of EE and Computing, Unska 3, Department of Electroacoustics, HR-10000 Zagreb, Croatia

As a part of a general questionnaire on the quality of lecturing on the Faculty of EE and Computing in Zagreb, Croatia, the students have to grade the acoustical quality of lecture rooms in an indirect way by giving answers to several questions included in that questionnaire. As the sound reinforcement system in two largest lecture halls is in rather bad condition, it is to be replaced in the near future with a new one of significantly better quality. The goal of this paper is to examine whether this change is reflected in the grades of acoustical quality given by the students. In the second part of the paper, the students' grades on acoustical quality of two smaller lecture rooms of identical size and acoustic treatment are compared. The comparison is made with respect to the position of these rooms relative to the nearby street as the source of traffic noise. The overall level and spectral content of noise are measured in those lecture rooms. The correlation is then examined between the results of these measurements and the grades given by the students.