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A teaching tool for architectural acoustics

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Abstract: This research aims to create an architectural computer-supported acoustics teaching tool AATT, which stands for Architectural Acoustics Teaching Tool. The AATT uses widely accepted principles and uses known algorithms. The goal is the creation of a digitalized tool that provides a more interactive way of learning architectural acoustics knowledge, by visualizing and auralizing the theoretical knowledge into vivid examples. The main innovative feature is that it integrates acoustics knowledge with acoustical examples, animations, videos, interactive calculation function and graphics. Most existing acoustical software tools, such as CATT-Acoustics and Ramsete, are aimed at professionals who already have significant acoustics experience. The tools are complicated to use and expensive to buy. Students need a free, easy to use teaching program which can provide basic knowledge about architectural acoustics. The AATT is written using Visual Basic. A tutorial is provided. Program debugging is also presented.

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