

WEB MULTIMEDIA SIMULATION FOR BIOMEDICAL TEACHING

J. Kofránek, P. Privitzer, M. Mateják, S. Matoušek

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We present the current state of the technology used for web multimedia educational simulator development. The main aim is to provide novel interactive multimedia application that can be used for biomedical education where (a) simulations are combined with tutorials, and (b) the presentation layer is simplified while the complexity of the model is kept beneath. The development of the multimedia teaching simulators required the cooperation of many professionals including teachers, system analysts, artists, and programmers. During the design of the multimedia simulators, tools were developed that allow for component-based creation of simulation models, creation of interactive multimedia and their final coordination into a compact unit based on the given design. The result of our works is Atlas of physiology and pathophysiology as freely available online application, which can help to explain the function of individual physiological systems and the causes and symptoms of their disorders.