E-learning Tools in Biomedical Informatics Education

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Educational programs in the area that we nowadays refer to as biomedical informatics are covering topics from the field of medical informatics, health informatics and bioinformatics. The conceptual roots of such programs lead back more than thirty years and the programs are well established in many countries. European projects with acronyms EuroMISE and IT EDUCTRA strongly contributed to the propagation of knowledge how to utilize information technologies in teaching and training in health care [1]. Based on the experience in the European projects the EuroMISE Center has started to develop two editions named “Biomedical Informatics” and “Biomedical Statistics” of books in the Czech language. The books are published by the Carolinum Printing House of Charles University in Prague and their electronic versions are available for registered user on the web pages http://www.euromise.cz/.

The books and their electronic versions are used in graduate and Ph.D. studies at Charles University in Prague and in lifelong education. In the years 2006-2007 the EuroMISE center was running eight courses for lifelong education with different topics of biomedical informatics. The total number of participants in these courses was 132, the number of successful graduates was 109. The evaluation of students’ knowledge in these courses is done by ExaMe system [2]. The idea of the ExaMe system is based on multiple-choice questions, but with no prior restrictions on the number of suggested answers. These courses highly used e-learning tools, e.g. electronic books, ExaME system, multimedia presentations of lectures and different software tools developed in the EuroMISE Center for applications in education and health care, e.g. Bayes and TeKom.

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References