Adaptive Computer Testing For Online Courses

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***Abstract* – Herewith we propose multi-step algorithm for computer-based testing allowing to differentiate and individualize academic performance rating procedure and subsequent testing path. Formulas to calculate quality points achieved by examinees are proposed. Exit criteria from the testing system are defined. A new function R_r was constructed to take decision based on three variables $Y_{kn}, Y_в, Y_c$ specifying student's knowledge and skills.**

***Index Terms* – Adaptability, testing, diagnostics, e-learning.**

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