

Status-Talk Tommy Kubica

Title: Role-based Adaptation in Collaborative Learning Environments

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Abstract: Learning environments, such as audience response or back-channel systems, provide a promising opportunity to address issues occurring in traditional higher education, e.g., the lack of interaction, by allowing students to participate anonymously in lectures using their mobile devices. However, the introduction of such systems leads to its own challenges: The lecturer has to adjust his/her preferred teaching strategy to the chosen system, as this usually relies on a single supported didactic concept and therefore has a limited, fixed functional scope. Moreover, the lecturer has to select and use the system's functionality and interpret the received data – support or recommendations of a suitable functional scope are rarely provided. Another issue becomes obvious by investigating different didactic concepts: While collaboration with subsequent group discussions is an integral part of various concepts, it is rarely or not at all supported by these systems. In this status talk, I will give an overview of contemporary approaches for supporting the lecturer as well as the collaboration between students in learning environments. By investigating the means of adaptation, I motivate a suitable solution. Consequently, I present the concept of a role-based system that uses different levels of adaptation to support the lecturer in properly using learning environments by providing collaborative functional proposals and allowing for customized scenarios.