

THE MIT/MICROSOFT iCAMPUS ALLIANCE FOR RESEARCH IN EDUCATIONAL TECHNOLOGY

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Abstract

MIT iCampus is a collaboration between the Massachusetts Institute of Technology and Microsoft Research to enhance university education through information technology. iCampus supports faculty initiatives in educational technology by sponsoring innovations, incubating and validating them through classroom use, and promoting their evaluation, dissemination, and continued evolution through worldwide multi-institutional cooperation. iCampus supports initiatives under three major themes: (1) educational Web services; (2) active learning and classroom transformation; and (3) educational applications of emerging technologies. This paper describes the organization of the iCampus program, together with examples under each of the themes, including Web-based access to laboratory equipment, replacing large lectures by studio-mode learning, and educational applications of speech recognition, sketch understanding, and synthetic biology. We also describe the iCampus Affiliates program, through which institutions around the world can collaborate with MIT on iCampus initiatives.

Keywords

Active learning, educational technology, educational Web services, research projects, dissemination, collaboration, classroom transformation, online laboratories, outreach.