

Textbook Alternatives Project (TAP)

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CS 156: Introduction to Artificial Intelligence

Basic concepts and techniques of artificial intelligence: problem solving, search, deduction, intelligent agents, knowledge representation. Topics chosen from logic programming, game playing, planning, machine learning, natural language, neural nets, robotics.

Brief description of the course and its place in the curriculum

An upper-division course for Computer Science majors that also attracts many graduate or second baccalaureate students, CS 156 is offered once annually and usually has an enrollment of 30 students.

Students are currently required to use a textbook that costs \$134.

Summary of course re-design activities

To replace the traditional textbook currently used by his students, Prof. Tseng is adapting a freely available Massive Open Online Course (MOOC) to align with his course learning objectives. He will solicit student feedback on the content and exercises and will evaluate student learning effectiveness by comparing the grades of students using the free online content to those of students in prior years that used a traditional textbook.

This new approach could potentially save students enrolled in CS 156 a collective total of more than \$4,000.

