Facilitating peer tutoring and assessment in intelligent learning systems

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Abstract
Research has observed substantial value in learning interventions where peers tutor and assess each other, and has outlined activities (e.g., explaining, questioning, and feedback) that enable interactive and reflective knowledge-building. This chapter considers how the underlying learning processes of peer tutoring and peer assessment can be enacted and supported within intelligent learning systems. We present a framework of allowances, affordances, and adaptances for describing different levels of scaffolding via technology. Example applications and recommendations for future research are discussed.

Keywords: explaining, feedback, intelligent tutoring systems, learning by teaching, peer tutoring, peer assessment, teachable agents, questioning, self-monitoring, social interaction

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References


