

Bibliography on Collaborative Learning
Articles Collected by Athirah, Ashley, and Sophia

Articles with Example Systems

Article	Description
Baghaei, Nilufar, Mitrovic, Antonija, & Irwin, Warwick (2007). "Supporting collaborative learning and problem-solving in a constraint-based CSCL environment for UML class diagrams," <i>Computer-Supported Collaborative Learning</i> , vol.2, pp.159-190.	An example of an collaborative ITS that includes some interesting discussion on what the constraints for optimal collaborative learning are as well as detailed descriptions of student-tutor interactions
Suebnukam, Siriwan & Haddaway, Peter (2004). "A Collaborative Intelligent Tutoring System for Medical Problem-Based Learning." <i>Proceedings of International Conference on Intelligent User Interfaces</i> . pp.14-2	An example of a collaborative ITS that describes in detail the types of feedback a collaborating group may get from the automated tutor.

Theory Articles

Article	Description
Claire E Ashton-James, Tanya L Chartrand, 2009. 'Social cues for creativity: The impact of behavioural mimicry on convergent and divergent thinking'. <i>Journal of Experimental Psychology</i> pp 1036-1040.	Explores the social effects groups and how this can cue different types of thinking and thus problem solving. Convergent thinking which is useful for collaboration becomes used by a group when members feel socially accepted. Divergent thinking and creation of novel ideas occurs more when individuals are not.
Goodyear, Peter; Jones, Chris and Thompson, Katherine (2013). Computer-supported collaborative learning: instructional approaches, group processes and educational designs. In: Spector, J. M.; Merrill, M. D.; Elen, J. and Bishop, M. J. eds. <i>Handbook of Research on Educational Communications and Technology (4th Edition)</i> . New York: Springer, pp. 439–4.	An overview of current ideas and technologies in CSCL, but without a focus on ITSes

<p>Janseen, Jeroen, Kirschner, Fembke, Erkens, Gijbert, Kirschner, Paul A., Paas, Fred (2010). "Making the Black Box of Collaborative Learning Transparent: Combining Process-Oriented and Cognitive Load Approach." <i>Educational Psychology Review</i>.</p>	<p>provides a theoretical discussion of collaborative learning focusing on process-oriented and cognitive-load approaches.</p>
<p>Dillenbourg P. (1999) "What do you mean by collaborative learning?" In P. Dillenbourg (Ed). <i>Collaborative-learning: Cognitive and Computational Approaches</i>. pp.1-19. Oxford: Elsevie</p>	<p>This is a general article on the various theory of collaborative learning as it was seen in 1999.</p>
<p>Soller, A. (2001). "Supporting social interaction in an intelligent collaborative learning system" <i>International Journal of Artificial Intelligence in Education (IJAIED)</i>, 12, pp.40-62.</p>	<p>social interaction affects the effectivity of collaborative learning in ITS. The paper presents a model that identifies the elements indicating the presence of social interaction and for each element, recommend strategies for improvements.</p>