E-Learning 2.0 ecosystem has turned out to be a trend in the world nowadays. The term E-Learning 2.0 ecosystem was coined that came out during the emergence of Web 2.0 technologies. Most of the researches overlook a deep-seated issue in the e-learner's foregoing knowledge on which the valuable intelligent systems are based. This research utilizes the e-Learner's collective intelligence knowledge and extracts useful information for appropriate target courses or resources as a part of a personalization procedure to construct the e-Learner's collective intelligent system framework for recommendation in e-learning 2.0 ecosystem. This research based on a novel web usage mining techniques and introduces a novel approach to collective intelligence with the use of mashup and web 2.0 technology approach to build a framework for an E-Learning 2.0 ecosystem. It is incorporated in predictive
model efficiently based on back-propagation network (BPN). A prototype system, named E-learner’s Collective Intelligence System Framework, has been proposed which has features such as self-regulation, reusability, lightweight, end user oriented, and openness. To evaluate the proposed approach, empirical research is conducted for the performance evaluation.

References

E-Learner’s Collective Intelligent System Framework: Web Mining for Personalization in E-Learning 2.0 Ecosystem using Web 2.0 Technologies


Raspl, S. 2004. Workshop on Data Mining Standards, Services and Platforms the Tenth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (Available on-line at http://www.lac.uic.edu/workshops/dm-ssp04.htm).

- Selwyn, N. "Web 2.0 applications as alternative environments for informal learning a critical review," paper for OECD-KERIS expert meeting, London, UK.

**Index Terms**

Computer Science  
Information Systems

**Keywords**

E-Learning 2.0  Ecosystem  Web Mining  Web 2.0 Technologies  Neural Network  
Collective Intelligence  
Mashup  
Personalization  
Recommendation