

A Framework of Computer-Based Learning System Based on Self-Regulated Model in English Writing

Kanyalag Phodong, Thepchai Supnithi and Rachada Kongkachandra

Abstract: This paper presents a design phase of a computer-based learning system for English writing in Thai EFL learners. This system is designed to incorporate the self-regulated model and set the components of linguistics and machine translation as a learning environment. The system is designed based on three main phases of self-regulated model: forethought phase, performance phase, and self-reflection phase. The learning environment used to guide completely target sentence writing. Moreover, the display of user interface is designed for using as assisting tool for supporting a student self-regulated learning in English writing. There are three main modules of the system that consist of learning profile acquisition, learning behavior collection, and learning analytics. The system design is an important phase to encourages action between learners and computer-based learning system for English writing. Then, learners behavior are collected into data logs store for learning analysis. This system aims to collect Thai EFL learners behavior and find the behavioral pattern that could helpful reference for improve system and teaching materials in the future.

Keywords: computer-based learning system, self-regulated, machine translation, English writing.