INFORMATION ON DOCTORAL THESIS


2. Summary of the new findings of the thesis
   - Modeling course content includes the set of concepts and tasks. On that basis, developing formulas to evaluate the knowledge of learners for the concept and level of completion for the task.
   - Constructing an adaptive engine for selecting learning path that meets various requirements to each learner. With each demand, a selected candidate path based on A* search algorithm. Proposed Constructing Learning Path algorithm to select the learning path meeting various demands that based on candidate learning path.
   - Based on the value of the probability level of quantitative understanding concepts as well as complete task level, developing adaptive engine, which based on knowledge, to select course content in accordance with knowledge of each learner.
   - Proposed an Adaptive Course Generation System model to create adaptive course based on demands, goals and knowledge of individual learners.

3. Practical applicability, if any:
   Proposed Adaptive Course Generation System model, along with contribution in the research learner model, learning content model, adaptive engine are capable of practical application. As presented in the thesis, the prime results of application show that model can be further applied to practical environments.

4. Further research directions, if any:
   Continue research to build models of assessment, classification learners to increase the effectiveness of the selection of content for each learner. With new learners, after evaluate process, the system aims to find the learning path of the user group has been involved with the course that has equivalent evaluation results in order to provide for them.