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Abstract
The curriculum in elementary school is separated into 7 learning areas. The areas of Social Studies, Arts and Humanities, Science and Technology are integrated into the Life Curriculum area in Grade 1-2, but independent in Grade 3-6. Thus, it is hard to achieve the knowledge integration. Therefore, the purpose of this study is to search the curriculum relationship among the three areas and combine the contents and concept of similar curricula to make the learning more efficient. A Grade 1-9 Knowledge Management E-learning system, KMES, based on knowledge management is proposed. The concept is to compile, make up, analyze, share, and create curriculum knowledge in the three learning areas. In other words, curriculum modules and knowledge are connected and organized to make a meaningful and integrated learning. In addition, on-line exams are designed for learners to understand their learning situations.
The characteristics of our system are to: collect and collate curriculum knowledge, analyze curriculum knowledge, share curriculum knowledge, create curriculum knowledge, and imply knowledge management into on-line exams.
After the system is accomplished and tested by professional teachers, it is proved that the system can organize, combine curriculum knowledge into systematic knowledge and make the learning more efficient.
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