Second International Workshop on Educational Knowledge Management (EKM 2016)
Abstract. The interest in knowledge engineering and knowledge management for the educational domain has been growing in recent years. This can be seen in the series of conferences organized by the International Educational Data Mining Society and in papers discussing the role of knowledge management in higher education. The EKM 2016 workshop aimed to bring together researchers, academic and professional leaders, consultants, and practitioners, from the domain of Semantic Web, data mining, machine learning, linked data, and natural language processing to discuss and share experiences in the educational area.

Knowledge management (KM) provides benefits to individual employees, to communities of practice, and to the organization itself. This three-tiered view of KM helps emphasize why KM is important today. It has been approved in different domains such as industrial and medical one. As education is increasingly occurring online or via educational software, resulting in an explosion of data, researchers started to explore this domain and new techniques are being developed and tested. They aim, for instance, to improve educational effectiveness, determine the key factors to the success of educational training, support basic research on learning, or manage educational training by satisfying the needs of a community, local industry, or professional development. The paper “Knowledge Management for Educational Information Systems: What Is the State of the Field?” written by Christopher A. Thorn in the journal “Education Policy Analysis Archives” emphasis on the need of KM techniques to face current evolution of educational systems especially the mobility of students/teachers involved in interactive learning. Thus, educational systems need KM to support and control the evolution of teaching and learning, and KM techniques must be adapted to education and take into account pedagogic dimensions.

The Second International Workshop on Educational Knowledge Management (EKM 2016) was organized as a satellite event to the 20th International Conference on Knowledge Engineering and Knowledge Management (EKAW), held in Bologna, Italy, November 19–23, 2016. The workshop was held on November 20.
In the call of papers, we invited submissions reporting original research related to any problem of managing and exploring information in the educational area in schools, colleges, universities, and other academic or professional learning institutions. A non-exhaustive list of topics for the workshop included the following:

- Knowledge management and ontology
- Knowledge management and multi-agents system
- Data mining and Semantic Web
- Knowledge acquisition, extraction, reuse
- Natural language processing to improve educational effectiveness
- Providing feedback to teachers and other stakeholders generated from EKM methods
- Generic frameworks, methods and approached for EKM
- Learner or student modeling
- Mining the results of educational research
- Educational process mining
- Improving educational software
- Evaluating teaching interventions
- Integrating data mining and pedagogical theory
- Integration pedagogical dimensions for knowledge appropriation
- Practice learning experiences and techniques
- Improving teacher support
- Semantic annotation
- Linked educational data
- Educational knowledge evolution
- Community of learning and community of practices

Two members of the Program Committee reviewed our submissions. The EKM Program Committee selected the best papers submitted to the workshop. Following the reviewers’ recommendations, six full papers out of the 11 submissions were accepted for presentation and published as CEUR-WS proceedings volume 1780. The workshop was a half-day format with one invited speaker. Three selected best papers were extended, revised, and included in this Springer volume (EKA 2016 proceedings).

As chairs of this workshop, we would like to thank everybody who was involved in the organization of EKM 2016, and we look forward to the next edition.
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