

3rd EKM Workshop Chairs' Welcome

Welcome to the 3rd Educational Knowledge Management (EKM) workshop, which takes place at the WWW'18 conference, in Lyon, France. The first edition was in 2014 in conjunction with the International Conference on Knowledge Engineering and Knowledge Management (EKAW), which was held in Linköping, Sweden, and the second one with EKAW 2016, in Bologna, Italy.

We received 6 papers from all around the world covering a broad range of topics. Each paper was reviewed by three members of the program committee. After the reviewing process, three papers were accepted for inclusion into the WWW proceedings volume, two of them as full papers and one as a short paper. The EKM2018 workshop will run as a half-day event, including the papers' presentation and two invited speaker sessions. A Best Paper Award will be assigned, and authors will be invited to submit an extended version of their work to a special issue that will be published as part of the "International Journal of Continuing Engineering Education and Lifelong Learning".

The first paper "Construction and Applications of TeKnowbase – A Knowledge Base of Computer Science concepts" by Rajna Upadhyay, Ashutosh Bindal, Manjeet Kumar, and Maya Ramanath describes the development and evaluation of TeKnowbase, and how to use it in a variety of applications for learning a new topic, classification of technical text and querying and ranking computer science articles. The second one untitled "Ontology-based recommender system in higher education" by Charbel Obeid, Inaya Lahoud, Hicham El Khoury, and Pierre-Antoine Champin, is a position paper discussing an ontology-based recommender system to support a student's choice of major and university. The third paper "Automatic Generation of Quizzes from DBpedia According to Educational Standards" by Oscar Rodríguez Rocha and Catherine Faron Zucker focuses on educational quizzes. The authors present an approach to generate quizzes automatically from existing knowledge bases available on the Web of Linked Open Data (LOD), according to the official French educational standards.

In the first invited session on "Open Learner Models, Trust and Knowledge Management for Lifelong Learning", Serge Garlatti, from IMT Atlantique in France, explores some knowledge management issues related to a recent approach for lifeLong Learning providing semantic open learner models and trusted collaborative services. It relies on a project called SEDELA, "Self-Data for Enhancing Lifelong learning Autonomy", which gathers researchers from both Information Technology (IT) and education science fields. The project aims to enhance learners' autonomy skills in a lifelong learning perspective as well as to develop, experiment and implement an innovative self-data management approach.

The second invited session "The Past, Present and Future of Learning Analytics" by Elsa Cardoso, from Instituto Universitário de Lisboa in Portugal, focuses on Learning Analytics (LA). This is a recent research field, in which Business Intelligence and Analytics are applied to gain insight into the learning process. This talk addresses the types of questions that LA research can answer and the different impact and value that can be delivered to different stakeholders, including students, teachers, and educational institutions. Delving into the What?, How?, Why?, with a time-based analysis (past, present and future), this talk explores how different Business Intelligence and Analytics techniques can be applied to Learning Analytics. A look into the future is also explored, in light of current data management challenges, mostly created by new data sources and Big Data applications, which have impacted the way teaching and learning occurs in Higher Education. In light of these changes, privacy issues and the ethics of LA projects need to be carefully addressed.

This 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 learning analytics to discuss and share experiences in the educational area. We invite participants and readers to enjoy the workshop program.

Inaya Lahoud

*Galatasaray University,
Turkey*

Elsa Cardoso

*Instituto Universitário
de Lisboa, Portugal*

**Nada Matta**

*University of Technology of
Troyes, France*

3rd EKM Workshop Organization

Workshop Chairs: Inaya Lahoud (Galatasaray University, Turkey)
Elsa Cardoso (Instituto Universitário de Lisboa, Portugal)
Nada Matta (University of Technology of Troyes, France)

Program Committee: Anne Boyer (University of Lorraine, France)
Ayako Hoshino (Security Research Laboratories, NEC Corp., Japan)
Catherine Faron Zucker (University of Nice Sophia Antipolis, France)
Christopher Thorn (Wisconsin Center for Education Research, USA)
François Bouchet (LIP6, Sorbonne University, France)
Hugo Jacquin (Galatasaray University, Turkey)
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Karim Sehaba (University of Lyon 2, France)
Laura Farinetti (Politecnico di Torino, Italy)
Lilia Cheniti-Belcadhi (University of Sousse, Tunisia)
Marie-Hélène Abel (University of technology of Compiègne,
Sorbonne University, France)
Ralf Klamma (RWTH Aachen University, Germany)
Ricardo Ribeiro (Instituto Universitário de Lisboa, Portugal)
Steffen Lohmann (Fraunhofer IAIS / Universität Bonn, Germany)
Yacine Lafifi (University of 8 May 1945 Guelma, Algeria)

