Special Session on

Smart Learning Environments (SLE)

Aims and Scope

The aim of this special session is to bring together researchers interested in the development of smart learning environments. Recent years have witnessed an increasing interest in the benefits of ICT in education, especially with the big advancements in technology (data storage, wireless and sensor technologies, and high bandwidth network infrastructures, etc.). As a result, the realm of learning and teaching has been changing rapidly and new paradigms have thus emerged (Massive Open Online Courses MOOCs, Open Educational Resources OER, U-Learning Ubiquitous Learning, Bring Your Own Device and Technology BYOD & BYOT, Cloud Computing in Education, Educational Data Mining, and Learning Analytics, etc.) as potential next steps in the process of transforming learning and teaching. Consequently, in higher education for example, every interaction of a student with his/her university (going to library, logging to virtual learning environment, accessing to a course, making an evaluation, submitting a homework, taking an exam, etc.) is tracked and stored. Therefore, data is being continually produced whether observed or not, in all phases of interactions of all actors involved in higher education, especially students. The produced big datasets represent a wealth that if collected, analyzed and used appropriately could participate a lot in the enhancement of education.

In fact, the interest in analyzing and using learning traces at different levels has increased in recent years, creating a new research niche, named educational data mining, and fostering a new growing research community.

Topics of interest

The topics of **SLE** includes, but is not limited to the following topics:

- Smart learning environments
- Educational applications of smart learning environments
- Educational recommendation systems
- Intelligent Learning Systems

- Intelligent Tutoring Systems and Authoring Tools
- Data Mining in e-learning
- Innovative pedagogical approaches using ICT
- e-learning and big data
- Assessment and technology enhanced learning
- Learning analytics
- Serious games
- Innovative approaches and components in Course
- Distant and massive learning using ICT
- Hybrid learning
- Collaborative learning
- Management Systems in education
- Evaluations in e-learning systems
- Mobile learning
- Ubiquitous learning
- Cloud computing in education
- Open education

Submission procedure

We invite researchers to submit scientific papers which should not exceed 10 pages using the **Springer** templates (Latex template, Word template) without page numbers. Please select the acronym of the special session when submitting your paper on the Easychair system. Submitted papers are selected based on their originality, relevance to the Special session topics and technical soundness, following a double blind peer-reveewing process. Authors names and affiliations should be deleted from the submitted version. Self-references should be in the third person. One of the authors of an accepted submission should attend the conference to present the work. Papers should be submitted in PDF format through the Easychair system. Please note that English is the only accepted language for writing and presenting papers. Registered and presented papers will be submitted for inclusion in **Springer Library**.

EasyChair online submission website:

https://easychair.org/conferences/?conf=icdec2017

Important Dates

- Deadline for paper submission: **January 2nd, 2017**
- Notification of the first round review: **February 5, 2017**
- Deadline of revised version submission **February 26, 2017**

Special session Organizers

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