Knowledge and Data Engineering for e-Learning

Special Issue of **IEEE Transactions on Knowledge and Data Engineering**

Guest Editors: **Qing Li**, **Rynson W.H. Lau**, **Dennis McLeod** and **Jiming Liu**

Aims:

With the advent of the Internet, we are seeing more sophisticated techniques being developed to support e-learning. The rapid development of Web-based learning and new concepts like virtual classrooms, virtual laboratories and virtual universities introduces many new issues to be addressed. On the technical side, we need to develop effective e-technologies for supporting distance education. On the learning and management side, we need to consider issues such as new style of learning and different system set-up requirements. Finally, the issue of standardization of e-learning systems should also be considered. In this special issue, our focus will be on the technical side, although other issues related to knowledge and data engineering for e-learning may also be considered.

Topics:

In this special issue, we call for original papers describing novel knowledge and data engineering techniques that support e-learning. Preference will be given to papers that include an evaluation of users' experience in using the proposed methods. Areas of interests include, but are not limited to:

- Semantic Web technology for e-learning
- Data modeling (eg., XML) for efficient management of course materials
- Searching and indexing techniques to support effective course notes retrieval
- User-centric e-learning systems and user interaction management
- Profiling techniques to support grading and learning recommendation
- Data and knowledge base support for pervasive e-learning
- Course material analysis and understanding
- Automatic generation of questions and answers
- Collaborative communities for e-learning

Submission

Prospective authors should prepare manuscripts according to the *Information for Authors* as published in recent issues of the journal or at www.computer.org/tkde/. Note that mandatory over-length page charges and color charges will apply. Manuscripts should be submitted through the online IEEE manuscript submission system at http://cs-ieee.manuscriptcentral.com/. Updated information of this call can be found at www.cs.cityu.edu.hk/~rynson/tkde/tkde-cfp.html.

Schedule

Submission deadline:	**July 1, 2007**
Completion of first round of reviews:	**October 1, 2007**
Minor/Major revision due (first round):	**November 1 / December 1, 2007**
Completion of second round of reviews:	**January 1, 2008**
Minor revisions due (second round):	**January 30, 2008**
Final decision notification:	**February 15, 2008**
Publication materials due:	**March 4, 2008**
Publication date:	**August 2008**

Guest Editors

Qing Li
Department of Computer Science
City University of Hong Kong
Hong Kong
Email: *itqli@cityu.edu.hk*

Rynson W.H. Lau
Department of Computer Science
University of Durham
United Kingdom
Email: *Rynson.Lau@durham.ac.uk*

Dennis McLeod
Computer Science Department
University of Southern California
U.S.A.
Email: *mcleod@pollux.usc.edu*

Jiming Liu
School of Computer Science
University of Windsor
CANADA
Email: *jiming@uwindsor.ca*