

# Call For Papers

## *Intelligent Tutoring and Coaching Systems*

Special Issue of **ACM Transactions on Intelligent Systems and Technology**

Guest Editors: **Qing Li, Liu Wenyin, Xiangfeng Luo** and **Cristina Conati**

### **Aims:**

Intelligent Tutoring and Coaching Systems (IT&CS) are computer-based instructional systems with models of instructional contents that specify what to teach, and teaching strategies that specify how to teach, mostly driven by AI technologies including knowledge-based systems, machine learning, planning, multi-agent systems and ontology. With the Web boom in recent years, we have witnessed a dramatic increase in novel applications of IT&CS. These applications cover a wide range of traditional as well as new computer-aided instruction paradigms, like e-learning and distributed learning. At the same time, novel techniques including natural language processing, machine learning, planning, multi-agent systems, ontologies, semantic Web, and social and affective computing have been used in IT&CS with various levels of success. In the last several years, IT&CS have moved from research labs into the real world. Many systems were developed and deployed, even for critical and complex domains. The reported benefits demonstrated by the users of these systems are impressive. Thus, IT&CS is a good example of the use and combination of AI techniques with the Internet and Web information systems. The goal of this special issue is to solicit high quality, original research contributions on all aspects of intelligent tutoring and coaching systems, thereby capturing the state of the art and stimulating further developments in the related areas.

### **Topics:**

In this special issue, we call for original papers describing some of the latest developments of Intelligent Tutoring and Coaching Systems. Areas of interests include, but not limited to:

- Technology advances in Intelligent Tutoring and Coaching;
- Educational software applications and games of Intelligent Tutoring and Coaching Systems;
- Simulation systems for Intelligent Tutoring and Coaching;
- Collaborative learning tools, devices and interfaces for Intelligent Tutoring and Coaching;
- Interactive techniques for Intelligent Tutoring and Coaching;
- Ontology for Intelligent Tutoring and Coaching;
- Standards and web services that support Intelligent Tutoring and Coaching;
- Authoring tools for Intelligent Tutoring and Coaching;
- Computer support for peer tutoring and learning via discovery or project work or field or lab work;
- Creation and management of learning objects for Intelligent Tutoring and Coaching.

### **Submission**

Each paper for submission should be formatted in double spacing, single column, following the style and length limit of the ACM Transactions on TIST. A separate cover letter should be submitted that includes the paper title, the list of all authors and their affiliations, and information of the contact author. Each paper will be reviewed rigorously, and possibly in two rounds, i.e., minor/major revisions will undergo another round of review. Prospective authors are invited to submit papers via the online submission system of TIST at <http://mc.manuscriptcentral.com/tist> (select the Special Issue of Intelligent Tutoring and Coaching Systems) before Oct. 1, 2010. Late submission will not be processed. Inquiries can be sent to [csliuw@cityu.edu.hk](mailto:csliuw@cityu.edu.hk).

### **Schedule**

|   |                         |
|---|-------------------------|
| Deadline for paper submission:          | <b>October 1, 2010</b>  |
| Completion of first review:             | <b>December 1, 2010</b> |
| Minor/Major revision due (first round): | <b>January 1, 2011</b>  |
| Completion of second round of reviews:  | <b>January 15, 2011</b> |
| Minor revision due (second round):      | <b>January 22, 2011</b> |
| Final decision notification:            | <b>February 1, 2011</b> |
| Publication date:                       | <b>2011</b>             |

### **Guest Editors**

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