

Call for Papers

“Recommendations for Authoring, Instructional Strategies and Analysis for Intelligent Tutoring Systems (ITS): Toward the Development of a Generalized Intelligent Framework for Tutoring (GIFT)”

A workshop in association with the 16th International Conference on Artificial Intelligence in Education to be held July 9-13th, 2013, Memphis, Tennessee, USA

WORKSHOP WILL BE HELD ON JULY 13TH

Scope and Topics of Interest:

The aim of this workshop is to bring together members of the AIED community for an in-depth exploration of ARL’s effort to develop tools, methods, and standards for Intelligent Tutoring Systems (ITS) as part of their Generalized Intelligent Framework for Tutoring (GIFT) research project. GIFT is a modular, service-oriented architecture whose goal is to address authoring, instructional strategies, and analysis constraints currently limiting the use and reuse of ITS today. GIFT has three primary objectives: (1) provide an authoring capability to develop new ITS and their components (e.g., learner models, pedagogical models, user interfaces, sensor interfaces), and standards to support the reuse of existing ITS components and leverage external training environments (e.g., serious games - Sottolare and Gilbert, 2011); (2) provide an instructional manager that encompasses best tutoring principles, strategies, and tactics for use in computer-based tutoring systems (CBTS); and (3) an experimental testbed to analyze the effectiveness and impact of CBTS components, tools, and methods. More information about GIFT can be found on www.gifftutoring.org.

This workshop closely aligns the theme of AIED 2013, *“From education to lifelong learning: constructing pervasive and enduring environments for learning.”* Key advantages of a generalized approach to ITS development (and GIFT in particular) are their standards and their high potential for reuse across educational and training domains. Other advantages that drive efficiency and affordability are GIFT’s modular design and standard messaging; its largely domain-independent components; and its reuse of interfaces, methods, and tools for authoring, instruction, and analysis.

GIFT developers anticipate providing authoring tools to accommodate a variety of user populations including learners, domain experts, instructional system designers, training and tutoring system developers, trainers & teachers, and researchers. Future plans include incorporating empirically evaluated models of teaching and learning as well as intelligent technologies for both individualized and small team tutoring. The GIFT developers hope to benefit from the insight of experts in the ITS field as future versions are developed and released to the public. The workshop chairs will present the fundamentals of GIFT and include a tutorial of its ontology and major architectural constructs as well as a demonstration of the latest version (GIFT v3.0).

The organizing committee invites speakers (i.e., GIFT users or those that have working knowledge of GIFT) to submit papers on their experiences using GIFT in any of the following capacities:

- **GIFT's authoring capabilities and recommendations for GIFT design enhancements**
- **GIFT as an instructional tool and recommendations for GIFT design enhancements**
- **GIFT's testbed capabilities to determine performance, learning, and retention effect, and recommendations for GIFT design enhancements**

Formatting instructions:

Please ensure that your papers are formatted correctly and are within the 8-page limit. Go to the [Information for LNCS Authors](#). Download the LNCS template for the word processing software you would like to use. E.g., when using Word 2007, download LNCS-Office2007.zip, when using Word 97-2003, download word.zip, when using LaTeX, download lncs.zip, and so forth. Note that most but not all of these downloads are listed at the top right (notable exception: LNCS-Office2007.zip is listed further down). You may ascertain which file to download for use with your preferred word processor by clicking on the relevant "Proceedings and Other Multiauthor Volumes" link. For Word 2007 this actually gets you to the download link. Unzip the file and study the instructions.

Submission instructions:

Paper submissions should be 8 pages **maximum** in Springer LNCS format and submitted by email to both workshop chairs heather.k.holden@us.army.mil and robert.sottolare@us.army.mil. Only submissions in .doc (Word) format will be accepted. All submissions should be in English. Address any questions to heather.k.holden@us.army.mil and robert.sottolare@us.army.mil.

Important dates:

Workshop paper submissions due:	April 19, 2013
Decisions communicated to authors:	May 10, 2013
Camera ready papers due:	May 31, 2013
Workshop date:	July 13, 2013

Workshop Organizers and Chairs

Robert A. Sottolare, Army Research Laboratory, robert.sottolare@us.army.mil
 Heather K. Holden, Army Research Laboratory, heather.k.holden@us.army.mil

Program Committee

Arthur Graesser, University of Memphis, Workshop Advisor
 Xiangen Hu, University of Memphis, Workshop Advisor
 James Lester, North Carolina State University, Workshop Advisor
 Ryan Baker, Columbia University, Workshop Advisor