Preface

The purpose of this workshop is to examine current research within the AIED community focused on improving adaptive tools and methods for authoring, automated instruction and evaluation associated with the Generalized Intelligent Framework for Tutoring (GIFT). As GIFT is an open-source architecture used to build and deliver adaptive functions in computer-based learning environments (Sottilare, Brawner, Goldberg & Holden, 2013), this workshop aids in gathering feature requirements from the field and addressing issues to better support future users.

The topics of interest highlight current research conducted within the GIFT community (i.e., 400+ users in 30+ countries) across three themes: (1) modeling across affect, metacogntion, teams, and experts; (2) tutorial intervention through communication, guidance, and sequencing; and (3) persistence functions of intelligent tutoring associated with competency modeling and social media. Each theme will be comprised of short papers describing capability enhancements to the GIFT architecture, the motivation behind the described work, and considerations associated with its implementation. Paper presentations are organized to provide attendees with an interactive experience through hands-on demonstrations.

For attendees unfamiliar with GIFT and its project goals, this workshop exposes those individuals to the GIFT architectural structure, enabling participants to learn how to construct original functions, and how the framework can be applied to their own research. The intent is to engage the AIED community in an in-depth exploration of the various research topics being investigated and the potential leveraging and collaboration that a community framework such as GIFT affords.

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References

1. Sottilare, R., Brawner, K. W., Goldberg, B., & Holden, H. (2013). The Generalized Intelligent Framework for Tutoring (GIFT). In C. Best, G. Galanis, J. Kerry & R. Sottilare (Eds.), *Fundamental Issues in Defense Training and Simulation* (pp. 223-234). Burlington, VT: Ashgate Publishing Company.