RIA e-Learning in Time-triggered Tasks Events/Listener
Real-time System Using XML Documents

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ABSTRACT

Time visualization of the learning effectiveness has become an important topic in e-learning research. This paper proposes a time-triggered and an event-based monitoring algorithm. As time function, the algorithm describes all the monitoring targets in an XML documentation, of which the “when and what” are constructed as their attributes. A fully interactive, just in time monitoring of the learning process can then be easily achieved by today’s hardware/software technology, combined with intelligent multimedia applications. The learner being monitored during the learning process will no longer feel being monitored. Furthermore, the RIA network learning system can personalize the interactive learning experience, and automatically carry out the monitoring missions, when the learner focuses on his/her own learning materials. This improves the learning effectiveness.

Key Words: Time Series, Time-triggered, eXtended Markup Language, Event Listener, RIA (Rich Internet Applications)