Intelligent Lifelong Learning Companions Workshop

Implementation, interoperability & scaling working group

What are the most salient findings/results that feed most directly to the ILCC vision

- No. 1
- ITS can provide efficient learning
- Social technologies work on the Web, the major infrastructure for info and svc del'y
- Semantic Web tech'ies, esp. ontologies, and standardized representation facilitate interoperabiliy and reusability

No. 2
- Research in long-term lrng w/ intell. Lrng environments
- Research in long-term interactions w/ ped. Agents
- Research on long-term patterns of learning
- Models of forgetting and re-learning

What are the most salient findings/results that feed most directly to the ILCC vision

▪No. 3
▪Metaphors from online social networks; what they say about how people engage with people, places, things
▪Search engine usage and PIM: how do people explore and interact with knowledge

No. 4
The need of DoD for Individualized training

What are the most salient findings/results that feed most directly to the ILCC vision

No. 5
- Need for tracking progress
- Need for persistent student model
- Need for broad curriculum model
- Privacy of model

No. 6
- System must adapt and grow with learner
- Discourse repetition must be minimized to maintain learner interest in system
- Learner model issues yet to be resolved prevent scaling to 500K learners

Interoperability
Scaling
To
10M

What are the most salient findings/results that feed most directly to the ILCC vision

No. 1
- ITS can provide efficient learning
- Social technologies work on the Web, the major infrastructure for info and svc del'y
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No. 1
No change

No. 2
- Research in long-term lrng w/ intell. Lrng environments
- Research in long-term interactions w/ ped. Agents
- Research on long-term patterns of learning
- Models of forgetting and re-learning

- No. 2
- Experience in promoting learning environment, interoperability in SCORM, and limitations of it
- Results from long-term interactions with lrng companions and lrng environments

What are the most salient findings/results that feed most directly to the ILCC vision

- No. 3
- Metaphors from online social networks; what they say about how people engage with people, places, things
- Search engine usage and PIM: how do people explore and interact with knowledge

No. 3
Provide a set of atomic objects representing lrng and knowledge so they can be recombined into larger structures by specific implementation

No. 4
The need of DoD for Individualized training

No. 4
No change

What are the most salient findings/results that feed most directly to the ILCC vision

No. 5
- Need for tracking progress
- Need for persistent student model
- Need for broad curriculum model
- Privacy of model

- No. 5
- Little change
- SCORM is a piece of the way to do what I suggested

No. 6
- System must adapt and grow with learner
- Discourse repetition must be minimized to maintain learner interest in system
- Learner model issues yet to be resolved prevent scaling to 500K learners

No. 6
Hierarchical lrng obj management; intersection between multiple module coverage not standardized