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 interoperability 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
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- 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. 1
- No change

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. 4
  - The need of DoD for Individualized training

- 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
  - No change
What are the most salient findings/results that feed most directly to the ILCC vision

<table>
<thead>
<tr>
<th>No. 5</th>
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<tbody>
<tr>
<td>▪ Need for tracking progress</td>
<td>▪ Little change</td>
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<tr>
<td>▪ Need for persistent student model</td>
<td>▪ SCORM is a piece of the way to do what I suggested</td>
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<tr>
<td>▪ Need for broad curriculum model</td>
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<td>▪ Privacy of model</td>
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<table>
<thead>
<tr>
<th>No. 6</th>
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<tbody>
<tr>
<td>▪ System must adapt and grow with learner</td>
<td>▪ Hierarchical lrng obj management; intersection between multiple module coverage not standardized</td>
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