Educational Standards Correlation Evaluation

Lightning talk at the National Science Digital Library Annual Conference

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Standard correlation or assignment

• Educational standards describing educational skills are connected with lesson plans describing how to teach those skills
• Various approaches underway to achieve this
• Evaluation needed that is meaningful across approaches so they can be compared
Reference set

- Public, standard, test collection
- Used by researchers working in the same area of interest
- To carry out similar experiments
- Systems can now run the same tests on identical data
- System output checked against answer key or gold standard in the collection
Use, scope, and purpose

- To evaluate efficacy of a correlation service
- To allow for comparison between methodologies
- Science and Math standards only
Requirements

• Entries in reference set (resource and its correlation) must be high quality
• Resources need to be diverse in subject matter and discipline and format
• None of the resources can be used for training the system
Data for the reference set

- **resource** (i.e. lesson plan)
- **format** (html, Word, pdf)
- **language** (English, Spanish, ...)
- **media** (text, image, mixed)
- **resource identifier** (i.e. lesson plan identifier)
- **resource metadata** (if it exists).
- **topic** (math, science, technology - core subject areas)
- **correlation(s)** (list of standards, ASN URIs and or text)
- **correlation type** (manual, nlp, vocabulary, ...)
- **correlation level** (i.e. strong, partial, weak)
- **origin** (submitting organization: wgbh, cnlp, uw)
- **date** (date uploaded)
- **notes**
Interested in participating?

• Using the reference set
  – A small reference set is currently available

• Donating data for the reference set
  – If you have correlations available and would like to contribute to the reference set contact us

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