Affinity among Disciplines and Perspectives on Spatial Thinking
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Workshop on Spatial Thinking and Reasoning: Multidisciplinary Reconciliation
Conference on Spatial Information Theory
12 September 2011
Belfast, Maine
A Natural / Structural View on the Space of Knowledge

An Empirical / Pragmatic View on the Space of Knowledge

Goodchild & Janelle
Two-dimensional non-metric scaling from cross specialization memberships for Assoc of American Geographers

Map of science derived from clickstream data.

- Circles represent individual journals.
- Lines show clickstream connections between journals.
- Colors correspond to ATT journal classification.
- Labels identify journal clusters for particular disciplines.
Clickstream Data Yields High-Resolution Maps of Science.

So what?

- We can measure affinity among disciplines
- But, does discipline affinity—
  - correspond to ways of thinking and reasoning?
  - translate to commonality in use of spatial concepts?
Spatial Concepts
Term Frequency by Discipline

from a teachspatial.org project by K Grossner
Thank You

For more information on perspectives in spatial thinking

www.spatial.ucsb.edu  www.teachspatial.org