Towards an unified discourse representation approach

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with contributions from:

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Scientific Discourse TF

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Preliminary analysis:
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- ☐ **Coarse-grained rhetorical structure**
- ☐ **Fine-grained rhetorical structure**
- ☐ **Relations** – types of relations used
- ☐ **Polarity** – explicit positive vs. negative
- ☐ **Weights** – explicit numeric weight of relations
- ☐ **Shallow metadata support**
- ☐ **Domain knowledge**
- ☐ **Purpose** – intended use of the model
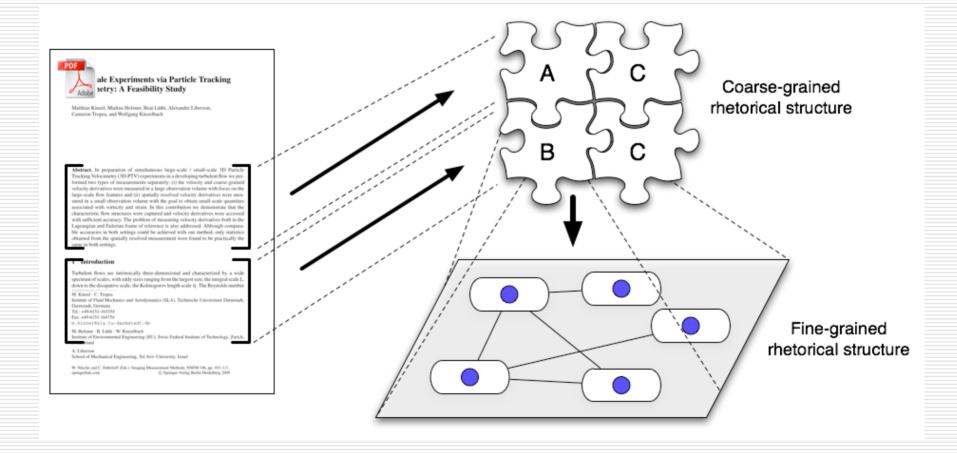- ☐ **Evaluation and uptake**
- ☐ …

Models

- ☐ Harmsze's model
- ☐ The Scholarly Ontologies project
- ☐ De Waard's model
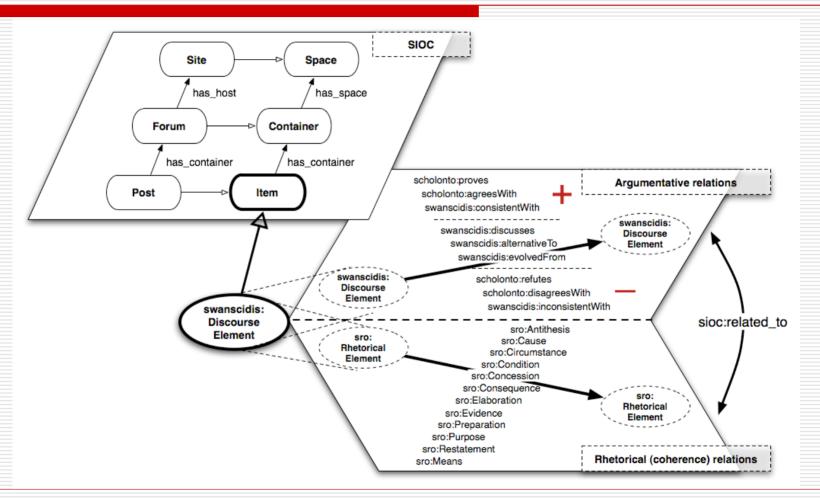- ☐ The SWAN Ontology
- ☐ The SALT Framework

A possible direction ...

- ☐ **Proper balance of currently existing features**
- ☐ **Emphasis on practicality for uptake maximization**
- ☐ **General structure**
  - ■ Layered – e.g. SWAN, SALT
- ☐ **Coarse-grained structure**
  - ■ Rhetorical blocks – e.g. ABCDE, SALT, Teufel's zones
- ☐ **Fine-grained structure**
  - ■ Discourse elements
- ☐ **Relations**
  - ■ 2 layers
  - ■ Argumentative + cognitive coherent
  - ■ Rhetorical relations

Abstract layering

Coarse-grained rhetorical structure

Fine-grained rhetorical structure

Concrete (Web-based) layering

Thank you!