Argument Mining: Was Ist Das?

Simon Wells
Edinburgh Napier University
CMNA 14 @ JURIX 2014, Krakow
Popular: Meetings, Workshops, Papers, Special Issues?

Definitely important but potentially buzz-wordy....

Unclear exactly what argument mining is (or is not)

Worth discussing

CMNA seems as good a place as any :D
From Data to Argument

- Lots of data (Web, Google Books, Social Media)
- Data is useful
- Analysed/Structured/Targeted Corpora very useful
- Mining gets us from raw data to useful data
3 Approaches

- Argument Mining ‘Simpliciter’
- Argument Mining by Analogy
- Argument Mining as Social Process
Exploiting existing & developing new techniques from Machine Learning & Natural Language Processing

Is there more?

- The core of recent existing work fits here
- But there are also other approaches....
Argument mining is to arguments as Data mining is to data?

What about Data Science (generalisable extraction of knowledge from data)

Is argument mining merely a form of data mining with a keen focus on argument?

Chance Discovery | Static & Dynamic | Tools/Workflows | Sharing
Social Dimensions

- Increasing argumentative structure in existing resources
- Creating new well-structured resources (either to immediately answer questions or be ‘good input’ to deeper techniques)
- Reinterpreting existing tools in light of Argumentation Mining
Is it just:

Data (in) $\implies$ Argument Information & Meta-Data (out)

regardless of the process (explicit, deliberative, goal-oriented) that mines the arguments?

Potentially a lot of overlap with activities that were previously just argumentation, e.g.

- Social Dimensions
- Analysis Tools
Future Work/Questions

We have a chat....
