Computational Argumentation Seminar

Conclusion

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Argumentation is pervasive

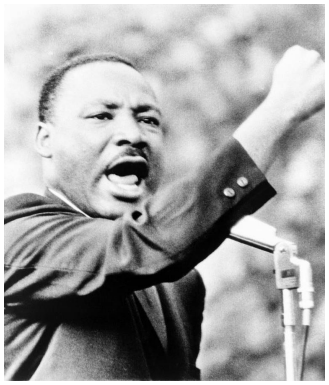
- **Reasons for argumentation**
  - No (clearly) correct answer or solution
  - A (possible) conflict of ideas, interests, positions, ...
  - In other words: Controversy





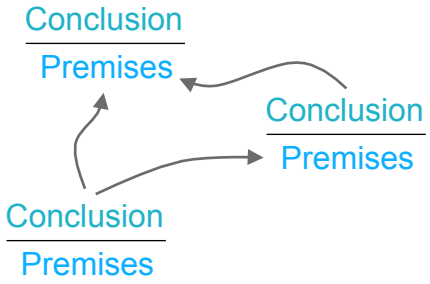

- **Goals of argumentation**
  - Persuasion
  - Agreement, dispute resolution
  - Deliberation
  - Justification, explanation
  - Decision making
  - Recommendation

  ... and similar

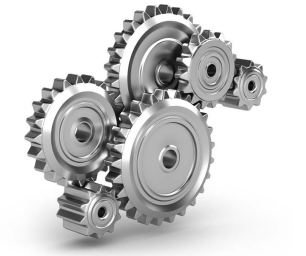


Research on computational argumentation

- **Computational argumentation**
  - Computational analysis and synthesis of natural language argumentation
  - Usually data-driven



$$(1-\alpha)\cdot\frac{p(d)\cdot|D|}{|A|} + \alpha \cdot \sum_i \frac{\hat{p}(c_i)}{|P_i|}$$



Resources
for development and evaluation

Models
of arguments and argumentation

Methods
for analysis and synthesis

Applications
using the models and methods

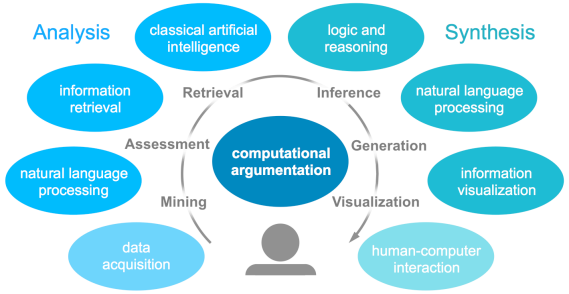
args.me

Topics covered in the seminar

Date	Topic	Presenter
Oct 10	Introduction to computational argumentation	Henning Wachsmuth
Oct 25	Computational argumentation at Webis	Yamen Ajjour
Nov 29	Argument mining: Unit segmentation	Milad Alshomary
Dec 6	Argument mining: Relation identification	Oana Popescu
	Stance classification	Kevin Lang
Dec 13	Classification of argumentation schemes	Wael Al-Atrash
	Discourse and argumentation	He Ren
Dec 20	Argumentation quality assessment	Anne Peter
Jan 10	Debate winner prediction	Jawad Ahmed
	Framing	Andrii Artamonov
Jan 17	Argumentation strategies	Tauqeer Ashraf
Jan 24	Argumentation synthesis	Saeed Entezari
	Visualization and interaction	Liselot Ramirez
Jan 31	Argument search	Sujay Shalawadi
	Argumentative writing support	Aaron Solbach

Goals of the seminar revisited

- **We hope you have learned about...**
  - Basics of computational argumentation
  - Webis research in this area
  - Selected state-of-the-art research in detail
  - But there‘s so much more...



- **You should have practiced...**
  - Acquiring relevant literature and knowledge on a research topic
  - Understanding key concepts and methods related to the topic

  - Presenting the topic in short and in depth
  - Writing a scientific text about the topic
    Upcoming!

Tasks and grading revisited

- **Short talk, 5–7 minutes** (~10% of the grade)
  Slide templates available upon request
  - Overview given and further literature; structure the topic
  - Presentation: Outline of the topic

- **Long talk, 30–40 minutes** (~40%)
  Slide templates available upon request
  - Understand literature in detail; create a coherent ”story“
  - Presentation: Detailed summary and discussion of the topic

- **Article, 8 pages + references** (~40%)
  Required: Use ACL-style files provided for Latex (recommended!) and Word
  - Create a written, possibly extended form of the long talk
  - Article: Detailed summary and discussion of the topic

- **Participation** (~10%)
  - Questions and discussions within the meetings

Your remaining tasks

1. **Prepare your written article**
   - Revisit details of all papers of your topic
   - Revisit the introduced basics of scientific presentation
   - Create a detailed draft of the article structure
     Example (high-level): Intro, background, approaches and results, comparison, conclusion

2. **Meet with your advisor**
   - Prepare questions
   - Contact us for 15–30 minutes appointment
     Not mandatory but recommended
   - Revise your draft afterwards

3. **Write your article**
   - Transform your long talk into a written form
   - Consider questions and feedback from the long talk
   - Submit article until March 23, 23:59 German time
     We are happy to get some articles earlier

Thank you for joining the seminar :)