

SICSA Workshop on Argument Mining:  
Perspectives from Information Extraction, Information Retrieval and  
Computational Linguistics  
*Report*

September 22, 2014

## 1 Attendees

The workshop on argument mining (<http://www.arg-tech.org/SWAM2014/>) took place on 9-10 July 2014 in the School of Computing in Dundee. The event attracted 14 participants from SICSA institutions (and further 3 contributors to position statements presented at the workshop), as well as 7 from non-SICSA institutions (and further 4 contributors to position statements). The participants and contributors from non-SICSA institutions included researchers from universities in Oxford, Leuven (Belgium), and Toulouse (France), as well as Open University (UK), Prometil, IRIT, University of Toulouse, INRIA Sophia Antipolis (France), and Florida Institute of Technology (US). The invited talk was given by the SICSA Distinguished Visiting Fellow, Professor Marie-Francine Moens – the world-leading specialist in the area of argument mining.

## 2 Topic matter covered

The workshop covered a wide range of topics related to argument mining, in particular from the perspectives of information extraction, information retrieval and computational linguistics. The talks were delivered by

- Katarzyna Budzynska (Polish Academy of Sciences & University of Dundee) & Chris Reed (University of Dundee): *Digital Ethos, Argument Technology and Inference Anchoring in a Dialogue*
- Jeremy Clos, Nirmalie Wiratunga (Robert Gordon University, Aberdeen), Joemon Jose (University of Glasgow), Stewart Massie (Robert

Gordon University, Aberdeen) & Guillaume Cabanac (University of Toulouse, France): *Towards Argumentative Opinion Mining*

- Juyeon Kang (Prometil & IRIT, Toulouse, **France**) & Patrick Saint-Dizier (IRIT, Toulouse, **France**): *Argument Compound Mining and Analysis in Technical Texts*
- John Lawrence & Chris Reed (University of Dundee): *Mining Arguments From Philosophical Texts Using Topic Based Modelling*
- Clare Llewellyn (University of Edinburgh): *Argumentation Mining In Social Media*
- Marie-Francine Moens (Katholieke Universiteit, Leuven, **Belgium**): *Argumentation mining: methods, challenges and possible solutions*
- Dave Murray-Rust (University of Edinburgh), Alison Pease (University of Dundee) & Ursula Martin (University of Oxford): *Interaction models of argumentation on Polymath*
- Alison Pease (University of Dundee), Andrew Aberdein (Florida Institute of Technology, **US**) & Ursula Martin (University of Oxford): *Small-scale arguments that within large-scale arguments about*
- Brian Pluss, Anna DeLiddo & Simon Buckingham Shum (Open University, UK): *From Argument Mapping to Argument Mining, and Back*
- Jodi Schneider (INRIA Sophia Antipolis, **France**): *An Informatics Perspective on Argumentation Mining*
- Simon Wells (University of Aberdeen): *Argument Mining to Support Behaviour Change*
- Adam Wyner (University of Aberdeen): *An Argument Workbench*

### 3 Project outcomes

The first day of the workshop was arranged around the short presentations from each contributor on argument mining from their own research perspective. The second day was divided into working sessions during which participants discussed and drafted a joint document on argument mining: “From Information Extraction, Information Retrieval and Computational Linguistics to Argumentation Mining”. The document will be co-authored by the

contributors to the workshop and published online as a leading roadmap on the subject.

Moreover, the workshop helped to forge new or cement existing ties with the participants. Amongst many discussions on possible collaboration and joint projects, possibly the most prominent is the establishment of cooperation between Dundee and Prof. Marie-Francine Moens. Budzynska, Reed and Moens plan to pursue the opportunities for joint EU proposal in the nearest future.