Australasian Language Technology Association Workshop 2016

Proceedings of the Workshop



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5–7 December 2016 Monash University Caulfield, Australia

Australasian Language Technology Association Workshop 2016 (ALTA 2016)

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Preface

This volume contains the papers accepted for presentation at the Australasian Language Technology Association Workshop (ALTA) 2016, held at Monash University in Caulfield, Australia on 5–6 December 2016.

The goals of the workshop are to:

- bring together the Language Technology (LT) community in the Australasian region and encourage interactions and collaboration;
- foster interaction between academic and industrial researchers, to encourage dissemination of research results:
- provide a forum for students and young researchers to present their research;
- facilitate the discussion of new and ongoing research and projects;
- increase visibility of LT research in Australasia and overseas and encourage interactions with the wider international LT community.

This year's ALTA Workshop presents 20 peer-reviewed papers, including 13 long papers and 7 short papers. We received a total of 28 submissions for long and short papers. Each paper was reviewed by three members of the program committee, using a double-blind protocol. Great care was taken to avoid all conflicts of interest.

ALTA 2016 includes a presentations track, following on from 2015 when it was first introduced. This aims to encourage broader participation and facilitate local socialisation of international results, including work in progress and work submitted or published elsewhere. Presentations were lightly reviewed by the ALTA chairs to gauge overall quality of work and whether it would be of interest to the ALTA community. In total 11 of 12 submissions where selected for presentation. Offering both archival and presentation tracks allows us to grow the standard of work at ALTA, to better showcase the excellent research being done locally.

ALTA 2016 continues the tradition of including a shared task, this year addressing cross-KB coreference. Participation is summarised in an overview paper by organisers Andrew Chisholm, Ben Hachey, and Diego Mollá. Participants were invited to submit a system description paper, which are included in this volume without review.

We would like to thank, in no particular order: all of the authors who submitted papers; the programme committee for the time and effort the put into maintaining the high standards of our reviewing process; the chairs Gholamreza Haffari and Andrew Mackinlay for coordinating all the logistics that go into running the workshop, from arranging the space, catering, budgets, sponsorship and more; the shared task organisers Andrew Chisholm, Ben Hachey, and Diego Mollá; our keynote speakers Mark Steedman, Hercules Dalianis and Steven Bird for agreeing to share their perspectives on the state of the field; and the tutorial presenters Wray Buntine, Simon Gog and Matthias Petri for their efforts towards the two tutorial sessions. We would like to acknowledge the constant support and advice of the ALTA Executive Committee.

Finally, we gratefully recognise our sponsors: Capital Markets CRC, Google, CSIRO/Data61 and Voicebox. Importantly, their generous support enabled us to offer travel subsidies to all students presenting at ALTA, and helped to subsidies conference catering costs and student paper awards.

Trevor Cohn ALTA Programme Chair

ALTA 2016 Programme

* Denotes shared session with ADCS.

Monday, 5 December 2016

*Tutorial Session 1 (Monash Caulfield, B214)				
09:00–10:15	Tutorial 1: Wray Buntine Simpler Non-parametric Bayesian Models			
10:15-10:45	Morning tea			
10:45–12:15	Tutorial 1 (continued)			
12:15–1:30	Lunch			
*Tutorial Session 2 (Monash Caulfield, B214)				
14:00–15:15	Tutorial 2: Simon Gog and Matthias Petri Succinct Data Structures for Text and Information Retrieval			
15:15–15:45	Afternoon tea			
15:45–16:45	Tutorial 2 (continued)			

Tuesday, 6 December 2016

Tuesuay, o D	eccember 2010
Session 1: Open	ning & Invited talk (Monash Caulfield Campus, B214)
9:00-9:15	Opening
9:15–10:15	Invited talk: Mark Steedman On Distributional Semantics
10:15-10:45	Morning tea
Session 2: Trans	slation (Monash Caulfield Campus, B214)
10:45–11:10	Presentation: Kyo Kageura, Martin Thomas, Anthony Hartley, Masao Utiyama, Atsushi Fujita, Kikuko Tanabe and Chiho Toyoshima Supporting Collaborative Translator Training: Online Platform, Scaffolding and NLP
11:10–11:25	Presentation: Nitika Mathur, Trevor Cohn and Timothy Baldwin Improving Human Evaluation of Machine Translation
11:25–11:40	Paper: Cong Duy Vu Hoang, Reza Haffari and Trevor Cohn Improving Neural Translation Models with Linguistic Factors
11:40–11:55	Presentation: Daniel Beck, Lucia Specia and Trevor Cohn Exploring Prediction Uncertainty in Machine Translation Quality Estimation
11:55–12:00	CLEF eHealth 2017 Shared tasks
12:00-13:15	Lunch
Session 3a: Invi	ted talk (Monash Caulfield Campus, B214)
13:15–13:55	*Invited talk: Hercules Danialis
13:55-14:00	Break
Session 3b: Hea	alth (Monash Caulfield Campus, B214)
14:00–14:15	Presentation: Raghavendra Chalapathy, Ehsan Zare Borzeshi and Massimo Piccardi An Investigation of Recurrent Neural Architectures for Drug Name Recognition
14:15–14:30	Paper: Hamed Hassanzadeh, Anthony Nguyen and Bevan Koopman Evaluation of Medical Concept Annotation Systems on Clinical Records
14:30–14:45	Paper: Mahnoosh Kholghi, Lance De Vine, Laurianne Sitbon, Guido Zuccon and Anthony Nguyen The Benefits of Word Embeddings Features for Active Learning in Clinical Information Extraction
14:45–15:00	Presentation: Rebecka Weegar and Hercules Dalianis Mining Norwegian pathology reports: A research proposal
15:00–15:15	Paper: Pin Huang, Andrew MacKinlay and Antonio Jimeno Syndromic Surveillance using Generic Medical Entities on Twitter
15:15–15:30	Paper: Yufei Wang, Stephen Wan and Cecile Paris The Role of Features and Context on Suicide Ideation Detection
15:30–16:00	Afternoon tea
Session 4: Relat	tion & Information extraction (Monash Caulfield Campus, B214)
16:00–16:15	Presentation: Dat Quoc Nguyen and Mark Johnson Modeling topics and knowledge bases with embeddings
16:15–16:30	Paper: Zhuang Li, Lizhen Qu, Qiongkai Xu and Mark Johnson Unsupervised Pre-training With Seq2Seq Reconstruction Loss for Deep Relation Extraction Models
16:30–16:45	Presentation: Hanieh Poostchi, Ehsan Zare Borzeshi and Massimo Piccardi PersoNER: Persian Named-Entity Recognition
16:45–17:00	Paper: Nagesh C. Panyam, Karin Verspoor, Trevor Cohn and Rao Kotagiri ASM Kernel: Graph Kernel using Approximate Subgraph Matching for Relation Extraction
17:00–17:15	Paper: Gitansh Khirbat, Jianzhong Qi and Rui Zhang N-ary Biographical Relation Extraction using Shortest Path Dependencies

Wednesday, 7 December 2016

Session J. mvill	ed talk & Shared task (Monash Caulfield Campus, B214)
9:00-9:45	Invited talk: Steven Bird
	TBA
9:45–10:15	Shared Task
10:15–10:45	Morning tea
	-papers & posters (Monash Caulfield Campus, B214)
10:45–11:10	Short-paper lightning talks
	Aditya Joshi, Vaibhav Tripathi, Pushpak Bhattacharyya, Mark Carman, Meghna Singh, Jaya Saraswati and Rajita Shukla How Challenging is Sarcasm versus Irony Classification?: A Study With a Dataset from English Literature Ming Liu, Gholamreza Haffari and Wray Buntine Learning cascaded latent variable models for biomedical text classification Bo Han, Antonio Jimeno Yepes, Andrew MacKinlay and Lianhua Chi Temporal Modelling of Geospatial Words in Twitter Antonio Jimeno Yepes and Andrew MacKinlay NER for Medical Entities in Twitter using Sequence to Sequence Neural Networks Dat Quoc Nguyen, Mark Dras and Mark Johnson An empirical study for Vietnamese dependency parsing Will Radford, Ben Hachey, Bo Han and Andy Chisholm :telephone::person::sailboat::whale::okhand: ; or âĂIJCall me IshmaelâĂİ âĂŞ How do you translate emoji? Xavier Holt, Will Radford and Ben Hachey
11 10 12 00	Presenting a New Dataset for the Timeline Generation Problem
11:10–12:00	Poster Session
12:00–13:15 13:15–13:35	Lunch
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	Business Meeting
Session 7: Appl	ications (Monash Caulfield Campus, B214)
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