ADCS 2017

Proceedings of the 22nd Australasian Document Computing Symposium

Brisbane, Queensland, Australia, December 7-8, 2017

Preface

These proceedings contain the papers presented at ADCS 2017, the Twenty Second Australasian Document Computing Symposium, hosted by Queensland University of Technology and held in Brisbane, QLD, Australia.

Of the 16 papers submitted 6 were accepted as full papers and 6 were accepted as short papers. The full written version of each submission received at least three anonymous reviews by independent, qualified international experts in the area. The review process followed a fully double-blind procedure. Dual submissions were explicitly prohibited. The accepted contributions cover a diverse range of topics in document computing including efficiency, user models and evaluation, summarisation, and information retrieval models.

The symposium includes formal presentations which allow for questions and discussions, but also opportunities to share ideas during interactive sessions and informal gatherings. This benefit is certainly the greatest for document computing practitioners. Following the success of this format in ADCS 2016, we also invited attendes to present unrefereed posters in an informal poster session. This addition was suggested by ADCS steering committee to increase the chance for researchers, specifically PhD students, to present their early work for feedback. The titles for the posters are listed on the symposium website but not published in the proceedings. Once again we have collocated with the Australasian Language Technology Workshop (ALTA), sharing all keynote talks (two from ADCS and two from ALTA), a poster session, and social events.

We would like to thank the members of the program committee for their commitment to quality reviews. We would also like to thank ACM SIGIR, CSIRO Data61, Redbubble and QUT for their generous support of the event. We would also like to thank our keynote speakers, Dan Russell and Victor Kovalev, for sharing their views of new research trends in Information Retrieval and Data Science. Finally, we thank all attendees of ADCS 2017 who made the trip to Brisbane.

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Paul Thomas, Microsoft (Bing)
Andrew Trotman, University of Otago
Andrew Turpin, The University of Melbourne
Alexandra Uitdenbogerd, RMIT University

List of Accepted Papers

1. Benham, Culpepper. Risk-Reward Trade-offs in Rank Fusion

2. Chappell, Geva, Hogan. K-Means Clustering of Biological Sequences

3. Crimp, Trotman. Automatic Term Reweighting for Query Expansion

4. De Vine, Geva, Bruza. Efficient Analogy Completion with Word Embedding Clusters

5. Hawking, Billerbeck. Efficient In-Memory, List-Based Text Inversion

6. Krishnan, Moffat, Zobel. A Taxonomy of Query Auto Completion Modes

7. Lim, Carman. Annotator Expertise and Information Quality in Annotation-based Retrieval

8. Mackenzie, Scholer, Culpepper. Early Termination Heuristics for Score-at-a-Time Index Traversal

9. Maxwell, Bailey, Hawking. Large-scale Generative Query Autocompletion

10. Seneviratne, Geva, Zuccon, Trotman. An Initial Study of Anchor Selection in Patent Link Discovery

11. Thomas, Scholer, Bailey, Moffat. Tasks, Queries, and Rankers in Pre-Retrieval Performance Prediction

12. Zhang, Zhang, Chan. A Word-Character Convolutional Neural Network for Language-Agnostic Twitter Sentiment Analysis