



THE 18TH ANNUAL CONFERENCE OF THE EUROPEAN
ASSOCIATION FOR MACHINE TRANSLATION (EAMT 2015)

MAY 11-13, 2015 • WOW TOPKAPI PALACE • ANTALYA / TURKEY

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Edited by

İlknur Durgar El-Kahlout • Mehmed Özkan • Felipe Sánchez-Martínez
Gema Ramírez-Sánchez • Fred Hollowood • Andy Way

Organized by



EAMT 2015

Proceedings of the 18th Annual Conference of the European Association for Machine Translation

Antalya, Turkey

May 11 - 13, 2015 at the WOW Topkapı Palace

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Contents

Foreword	iii
Preface by the Programme Chairs	v
Message from the Conference Chair	vi
EAMT 2015 Committees	vii
Sponsors	x
List of papers	xi
Invited talk by Olga Beregovaya	1
Research papers	2
User papers	193
Project/product descriptions	210
Author index	230

Foreword

It has been a huge honour for me to serve as president of the European Association for Machine Translation (EAMT) over the past six years. As I step down from office, I am delighted that the last EAMT annual conference under my presidency is being held in the beautiful location of Antalya, Turkey. This continues the policy I started in 2009 of bringing EAMT to new regions of Europe. This began with our first visit to the Iberian peninsula (Barcelona, 2009), our first conference in France in 2010 (St. Raphaël), followed by the Benelux region in 2011 (Leuven), continuing in 2012 with our first conference hosted in Italy (Trento), followed by the 2014 meeting in Croatia (Dubrovnik). Quite coincidentally, you may have noticed that we have journeyed step-by-step from West to East, almost 4,000km in fact! Just to give you a little hint, next year's conference starts to reverse this trend, but only just! Of course, you'll have to wait until the closing session of this year's meeting before you find out the actual 2016 conference location!

The EAMT organised its first Workshop/Conference back in 1996, and now we come to our Eighteenth Annual Conference in 2015. It is fair to say that for many, our EAMT conferences are pencilled in long in advance as not-to-be missed events. As well as running successful conferences over longer periods of time with much larger numbers of attendees than in the past, in 2012 we ran the very successful MT Summit in Nice on behalf of the whole MT community. All these things provide clear evidence to me that the EAMT as an organisation is continuing to grow and thrive. As I've often noted before, since its inception in 1997, the EAMT has not raised its membership rates, and we will continue to hold the cost of membership for 2015. Joining us is great value, especially in years like this when more than one IAMT-affiliated event takes place: as well as EAMT, we will converge later in the year on Miami, for MT Summit XV. The close cooperation with the other regional associations, which started with help from Alon Lavie and Hitoshi Isahara – including mutual conference discounts for all IAMT members – continues, despite both AMTA (George Foster) and AAMT (Hiromi Nakaiwa) having elected new presidents. As this is my last conference as EAMT president, I can only hope that this partnership continues and thrives in the future.

As ever, I would like to thank my colleagues on the EAMT Committee. They work tirelessly on behalf of all of us, and we are truly fortunate to have such a strong body of colleagues representing our Association. This year, there are significant changes to your Committee, which we will announce during the General Assembly. I urge all of you to consider contributing to this service to the community. I would like to thank all those who have helped me on the Committee over the past 6 years; it is testament to them all that our Association remains strong, and in good hands for the future.

As in the recent past, I am confident that the programme that has been assembled for this 18th Conference is a strong one, which will be of great interest to you all. I would like to thank the Programme Co-Chairs Felipe Sánchez-Martínez (Research track) and Gema Ramírez-Sánchez and Fred Hollowood (User track), for their assistance in helping assemble the programme you have before you, comprising Research and User tracks, poster sessions, and a terrific Invited Speaker in Olga Beregovaya. As in recent conferences, we continue to feature a special session featuring prominent FP7/H2020 projects, which has proven very popular in the past.

Last but not least, I would especially like to thank our local organizer, İlknur Durgar El-Kahlout, who very generously volunteered to hold the meeting in Antalya. We are very grateful to İlknur and her team for their excellent organization of this event.

Finally, thanks to all of you for coming. I hope you all enjoy the conference, that you benefit from the excellent programme that has been assembled, and that you go away from here having made new friends.

Andy Way
Deputy Director of ADAPT,
School of Computing,
Dublin City University.

President of the EAMT
away@computing.dcu.ie

Preface by the Programme Chairs

It is our pleasure to welcome you to the 18th Annual Conference of the European Association for Machine Translation (EAMT) to be held in Antalya, Turkey. We really enjoyed serving as a programme committee chairs for this year edition of which has become the most important event on machine translation in Europe for developers, researchers, users, professional translators and translation/localisation managers. As in previous editions, the conference is organised in three different tracks: a research track in which unpublished research results in machine translation and related areas are reported; a user track where users of machine translation companies, language service providers, government agencies and non-government organisations report their experience on using and adapting machine translation in their organisations; and a project and product description track where products and projects on machine translation have the opportunity to reach the broad audience of the conference.

We received 46 submissions to the research track, 7 submissions to the user track and 20 project/product descriptions. All these papers come from more than 20 different countries. Each of the research and user papers were peer-reviewed by three independent reviewers from the program committee. Following the reviewers' suggestion, one of the papers submitted to the research track was redirected to the user track; of the remaining 45 papers, 24 (53\%) were accepted for their publication in the conference proceedings: 10 of them were selected for oral presentation, whereas 14 will be presented as a poster. In the user track 4 papers were accepted (57\%), three of them were selected for oral presentation and one will be presented as a poster. In the project/product description track 18 papers were selected for presentation as a poster.

We will enjoy an invited talk by Olga Beregovaya, current Vice President of Language Tools at Welocalize, who has an extense experience of over 15 years in the localisation industry. We hope all attendees, researchers and users, will find her talk highly appealing. We will also have a presentation by the winner of the EAMT Best Thesis Award. Poster presenters will have a two-slides, two-minutes presentation of their papers in a poster booster session.

We thank all the Programme Committee members and sub-reviewers, whose names are subsequently listed, for their detailed extensive reviews and useful recommendations which where vital in helping us to decide the papers to accept. We also thank all the authors, who tried their best to incorporate the reviewers' suggestions when preparing their camera-ready papers. For those papers that were not accepted we hope that the reviewers' comments will help them to improve their papers for their submission somewhere else. Special thanks goes to Mikel L. Forcada, who took care of the project/product description track.

Finally, a big thank you goes to the local organising committee and to all the authors who made this conference both possible and successful. We hope that the resulting selection of papers represents the best of machine translation research, development and real-world usage.

Felipe Sánchez-Martínez
Universitat d'Alacant

Gema Ramírez-Sánchez
Prompsit Language Engineering

Fred Hollowood
Fred Hollowood Consulting

EAMT 2015 Programme Committee co-chairs

Message from the Conference Chair

It is my privilege and great pleasure to welcome you in WOW Topkapı Hotels for the 18th Conference of the European Association for Machine Translation. I am very proud that the EAMT conference is organized this time in Antalya, the tourism capital and most beautiful province of Turkey on the Mediterranean coast.

This year's conference format is the same as those of the last three years, two and half days of oral and poster sessions, followed by a social programme. I hope you will enjoy the high quality papers in three different tracks – research, user and product/project – that will give an overview of current developments and trends in Machine Translation.

The conference will be held at the WOW Topkapı Hotel Osmanlı Halls. Sessions and coffee breaks will be hosted in front of the conference room. Lunches will be served in the Hünkar restaurant in a separated area for EAMT'15 participants. I hope you will enjoy the social events that we have organized: the welcome reception in the Cariye Pool and the conference banquet on the beach of WOW Kremlin Palace. On the last day of the conference, a cultural tour will be organized to Kurşunlu and Perge.

I will have to express my gratitude to the EAMT Board for providing us with the opportunity to host the 18th EAMT conference; especially Andy Way, Mikel Forcada, Viggo Hansen, and Tony Clarke who helped me whenever needed. It was a great pleasure to work with you. I would like to thank the Program Chair, Felipe Sánchez-Martínez, and User Co-chairs Gema Ramírez-Sánchez and Fred Hollowood for taking care of the large number of submissions and for preparing the programme.

This conference would not be possible without the efforts of many people involved in its organization; our organizational partner DEKON particularly Kubilay Şahin and Kübra Şenkahveci who worked hard to prepare a successful setup for the conference, local organization co-chair Mehmed Özkan and our local organization committee members Kemal Oflazer, Coşkun Mermer, Yücel Bicil, Şeniz Demir and Alper Kanak who volunteered for the organization and helped during every stage of the preparations.

Lastly, I am grateful to our sponsors for their generous contributions; gold sponsor STAR, bronze sponsors KuvaytTürk, Ebay, and Universal, Welcome Reception Sponsor SesTek and lastly lunch sponsor Welocalize.

I wish you a very successful 18th EAMT conference in Antalya. Enjoy both the academic program and Antalya during your stay!

İlknur Durgar El-Kahlout
TÜBİTAK-BİLGEM
ilknur.durgar@tubitak.gov.tr

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List of papers

Invited Talk

- What we want, what we need, what we absolutely can't do without – an enterprise user's perspective on machine translation technology and stuff around it*
Olga Beregovaya 1
- Research papers** 2
- Exploiting portability to build an RBMT prototype for a new source language*
Nora Aranberri, Gorka Labaka, Arantza Díaz de Ilarraza and Kepa Sarasola 3
- Building hybrid machine translation systems by using an EBMT preprocessor to create partial translations*
Mikel Artetxe, Gorka Labaka, Kepa Sarasola 11
- Using on-line available sources of bilingual information for word-level machine translation quality estimation*
Miquel Esplá-Gomis, Felipe Sánchez-Martínez, Mikel L. Forcada 19
- A general framework for minimizing translation effort: towards a principled combination of translation technologies in computer-aided translation*
Mikel L. Forcada and Felipe Sánchez-Martínez 27
- Can Translation Memories afford not to use paraphrasing?*
Rohit Gupta, Constantin Orasan, Marcos Zampieri, Mihaela Vela, Josef van Genabith 35
- Dependency-based Reordering Model for Constituent Pairs in Hierarchical SMT*
Arefeh Kazemiy, Antonio Toral, Andy Way, Amirhassan Monadjemiy, Mohammadali Nematbakhshy 43
- The role of artificially generated negative data for quality estimation of machine translation*
Varvara Logacheva and Lucia Specia 51
- Document-Level Machine Translation with Word Vector Models*
Eva Martinez Garcia, Cristina Espana-Bonet, Lluís Marquez 59
- The potential and limits of lay post-editing in an online community*
Linda Mitchell 67
- Post-Editing Evaluations: Trade-offs between Novice and Professional Participants*
Joss Moorkens and Sharon O'Brien 75
- Benchmarking SMT Performance for Farsi Using the TEP++ Corpus*
Peyman Passban, Andy Way, Qun Liu 82

<i>Dynamic Terminology Integration Methods in Statistical Machine Translation</i> Marcis Pinnis	89
<i>Identifying main obstacles for statistical machine translation of morphologically rich South Slavic languages</i> Maja Popovic and Mihael Arcan	97
<i>Poor man's lemmatisation for automatic error classification</i> Maja Popovic, Mihael Arcan, Eleftherios Avramidis, Aljoscha Burchardt, Arle Lommel	105
<i>Truly Exploring Multiple References for Machine Translation Evaluation</i> Ying Qin and Lucia Specia	113
<i>Searching for Context: a Study on Document-Level Labels for Translation Quality Estimation</i> Carolina Scarton, Marcos Zampieri, Mihaela Vela, Josef van Genabith, Lucia Specia	121
<i>Stripping Adjectives: Integration Techniques for Selective Stemming in SMT Systems</i> Isabel Slawik, Jan Niehues, Alex Waibel	129
<i>Evaluating machine translation for assimilation via a gap-filling task</i> Ekaterina Ageeva, Francis M. Tyers, Mikel L. Forcada, Juan Antonio Pérez-Ortiz	137
<i>Unsupervised training of maximum-entropy models for lexical selection in rule-based machine translation</i> Francis M. Tyers, Felipe Sánchez-Martinez, Mikel L. Forcada	145
<i>Assessing linguistically aware fuzzy matching in translation memories</i> Tom Vanallemeersch and Vincent Vandeghinste	153
<i>Re-assessing the WMT2013 Human Evaluation with Professional Translators Trainees</i> Mihaela Vela and Josef van Genabith	161
<i>Integrating a Large, Monolingual Corpus as Translation Memory into Statistical Machine translation</i> Katharina Wäschle and Stefan Riezler	169
<i>TargetSide Generation of Prepositions for SMT</i> Marion Weller, Alexander Fraser, Sabine Schulte im Walde	177
<i>Word Alignment Based Parallel Corpora Evaluation and Cleaning Using Machine Learning Techniques</i> Ieva Zariņa, Pēteris Nīkiforovs, Raivis Skadiņš	185

User papers	193
<i>Content Translation: Computer-assisted translation tool for Wikipedia articles</i> Niklas Laxström, Pau Giner, Santhosh Thottingal	194
<i>Pre-reordering for Statistical Machine Translation of Non-fictional Subtitles.</i> Magdalena Plamada, Gion Linder, Phillip Ströbel, Martin Volk	198
<i>SMT at the International Maritime Organization: experiences with combining in-house corpus with more general corpus</i> Bruno Pouliquen, Marcin Junczys-Dowmunt, Blanca Pinero, Michał Ziemiński	202
<i>Evaluation of the domain adaptation of MT systems in ACCURAT</i> Gregor Thurmair	206
Project/product descriptions	210
<i>MixedEmotions: Social Semantic Emotion Analysis for Innovative Multilingual Big Data Analytics Markets</i> Mihael Arcan and Paul Buitelaar	211
<i>The ACCEPT Academic Portal: Bringing Together Pre-editing, MT and Post-editing into a Learning Environment</i> Pierrette Bouillon, Johanna Gerlach, Asheesh Gulati, Victoria Porro, Violeta Seretan	212
<i>Russian-Chinese Sentence-level Aligned News Corpus</i> Wenjun Du, Wuying Liu, Juntong Yu, Mianzhu Yi	213
<i>HimL (Health in my Language)</i> Barry Haddow	214
<i>MT-enhanced fuzzy matching with Transit NXT and STAR Moses</i> Nadira Hofmann	215
<i>HandyCAT - An Open-Source Platform for CAT Tool Research</i> Chris Hokamp and Qun Liu	216
<i>TraMOOC: Translation for Massive Open Online Courses</i> Valia Kordoni, Kostadin Cholakov, Markus Egg, Andy Way, Lexi Birch, Katia Kermanidis, Vilelmini Sosoni, Dimitrios Tsoumakos, Antal van den Bosch, Iris Hendrickx, Michael Papadopoulos, Panayota Georgakopoulou, Maria Gialama, Menno van Zaanen, Ioana Buliga, Mitja Jermol and Davor Orlic	217
<i>Streamlining Translation Workflows with Style Scorer</i> David Landan and Olga Beregovaya	218

<i>Estonian-English Reversible Smart Phone Dictionary of Military Terms and Relevant Vocabulary</i> Epp Leete	219
<i>FALCON: Federated Active Linguistic data CuratiON</i> David Lewis	220
<i>Tapadóir</i> Eimear Maguire, John Judge and Teresa Lynn	221
<i>Okapi+QuEst: Translation Quality Estimation within Okapi</i> Gustavo Henrique Paetzold, Lucia Specia, Yves Savourel	222
<i>CRACKER: Cracking the Language Barrier</i> Georg Rehm	223
<i>LTC KnowHow: Empowering the Social Enterprise in the Language Industry</i> Adriane Rinsche and Sabine Rinsches	224
<i>Multi-Dialect Machine Translation (MuDMat)</i> Fatih Sadat	226
<i>Abu-MaTran: Automatic building of Machine Translation</i> Antonio Toral, Tommi A Pirinen, Andy Way, Gema Ramírez-Sánchez, Sergio Ortiz Rojas, Raphael Rubino, Miquel Esplà, Mikel Forcada, Vassilis Papavassiliou, Prokopis Prokopidis and Nikola Ljubešić	227
<i>MNH-TT: A Platform to Support Collaborative Translator Training</i> Masao Utiyama, Kyo Kageura, Martin Thomas, Anthony Hartley	228
<i>Smart Computer Aided Translation Environment</i> Vincent Vandeghinste, Tom Vanallemeersch, Frank Van Eynde, Geert Heyman, Sien Moens, Joris Pelemans, Patrick Wambacq, Iulianna Van der Lek - Ciudin, Arda Tezcan, Lieve Macken, Véronique Hoste, Eva Geurts and Mieke Haesen	229

Invited Talk

Olga Beregovaya

What we want, what we need, what we absolutely can't do without – an enterprise user's perspective on machine translation technology and stuff around it

As the gains made by current phrase-based MT systems approach a horizontal asymptote, those of us in industry who benefit from cutting-edge research are giving serious thought to what's next. The goal of this talk is to rekindle the dialog between research and industry circles on the immediate and future needs of the user community and finding mutually beneficial and interesting avenues for collaboration.

Of course, there are too many topics to cover in an hour, but I'll try to touch on some of the most relevant...

These are the areas of utmost interest and importance for the global business community as seen by a user from a major Language Service Provider:

Translation Quality: It's clear that we've nearly hit the wall with what more we can squeeze out of phrase-based MT systems, so where do we go from here? Are factored models the way to go, or should we in industry start giving serious consideration to systems using deep learning techniques and/or deep syntactic/semantic structures?

New real-life applications: User-generated content (UGC) is rapidly becoming a huge opportunity for translation & localization. Whether we're talking about blogs, reviews, or live chat, there are challenges for the MT status quo: normalization, ungrammatical/uncommon syntax, extreme sensitivity to maintaining proper negation or sentiment.

Domain adaptation: How much can we get out of minimal amounts of data? A little more data? Lots of out-of-domain data? How can we seamlessly integrate client/user dictionaries into standard SMT workflows?

Using and interpreting metadata: We're seeing a trend where we often have as much or more metadata than actual text to translate. How can this be leveraged to improve results, and make translators'/post-editors' lives easier?

Quality evaluation, utility prediction: What do we even mean by "utility"? Let's work together on establishing a standard. Can we get robust, reliable QE from limited (or no) bilingual data? (We've got some evidence that the answer is yes...) What can we say about quality *vis à vis* functionality?

Collaboration: We want to help! We're very interested to see research that's directly applicable, and we want to find ways to facilitate academic/industry partnerships. We can work with clients to try to make large amounts of domain-specific (non-parliamentary!) data available. Please reach out to us so we know what you're working on. Better yet, let's work on finding mutually beneficial projects.