

RUKEN ÇAKICI

PERSONAL INFORMATION

Official Name Ruket Çakıcı
Born in Turkey, 23 June 1978
email rukencakici@gmail.com
website <http://www.ceng.metu.edu.tr/~ruken>

WORK EXPERIENCE

2010- METU Instructor, METU
Research and Teaching duties
1999-2010 METU — Ankara Research Assistant, METU — Ankara
METU Teaching assistantship of various courses

EDUCATION

2002-2008 University of Edinburgh, UK
Doctor of Philosophy
School: School of Informatics
Thesis: *Wide-Coverage Parsing for Turkish*
Advisors: Prof. Mark STEEDMAN & Prof. Miles OSBORNE
1999-2002 Middle East Technical University
Master of Science
School: Computer Engineering
Thesis: *A Computational Interface for Syntax and Morphemic Lexicons*
Advisor: Prof. Cem BOZŞAHİN
1995-1999 Middle East Technical University
Bachelor of Science
School: Computer Engineering

PROJECTS

1999-2001 AppTek/ Lernout & Hauspie Inc Language Pairing on Functional Structure: Lexical- Functional Grammar Based Machine Translation for English – Turkish. 150000USD. · Consultant developer
2007-2011 TÜB MEDİD Turkish Discourse Treebank Project, TUBİTAK 1001 program (107E156), 137183 TRY. · Researcher · (Now part of COST Action IS1312 (TextLink))
2012-2015 Unsupervised Learning Methods for Turkish Natural Language Processing, METU BAP Project (BAP-08-11-2012-116), 30000 TRY. · Primary Investigator
2013-2015 TwiTR: Türkçe için Sosyal Ağlarda Olay Bulma ve Bulunan Olaylar için Konu Tahmini (*TwiTR: Event detection and Topic identification for events in social networks for Turkish language*), TUBİTAK 1001 program (112E275), 110750 TRY. · Researcher · (Now Part of ICT COST Action IC1203 (ENERGIC))
2013-2016 Understanding Images and Visualizing Text: Semantic Inference and Retrieval by Integrating Computer Vision and Natural Language Processing, TUBİTAK 1001 program (113E116), 318112 TRY. · Researcher/Co-PI · (Part of ICT COST Action 1307 (iVL))

MASTER'S THESES SUPERVISED

<i>Haydar Imren</i>	Head finalization and morphological analysis in factored phrase-based statistical machine translation from English to Turkish (June, 2015)
<i>Burak Kerim Akkus</i>	Supertagging with Combinatory Categorical Grammar for Dependency Parsing (September, 2014)
<i>Hassane Natu Hassane Cabir</i>	A comparison of different recommendation techniques for a hybrid mobile game recommender system, Co-supervisor (November 2012)

TEACHING

<i>Designed courses</i>	CEng 784 Statistical Methods for NLP (METU) CEng 499 Introduction to Machine Learning (METU)
<i>Undergraduate courses</i>	CEng 232 Logic Design (METU) CEng 280 and CNG 280 Formal Languages and Abstract Machine (METU and METU-NCC) CEng 463 Introduction to Natural Language Processing (METU) CEng 491 Computer Engineering Design I(METU) CEng 492 Computer Engineering Design II
<i>Graduate courses</i>	CEng 563 Computational Linguistics I (METU) CEng 709 Computer Architecture and Operating Systems (METU)
<i>As Teaching Assistant</i>	LCTG Linguistic and Computational Theories of Grammar (University of Edinburgh) CEng 444 Language Processing and Compilers (METU) CEng 232 Logic Design (METU) CEng 223 Discrete Computational Structures (METU) CEng 334 Operating Systems (METU) CEng 280 Formal Languages and Abstract Machines (METU) CEng 230 C Programming (METU)

CONSULTING

Comodo, Turkey, **E-mail cyber intelligence**, TEYDEB, TUBITAK · 2016-
EES Software, Ankara, Turkey, **Data mining on legal documents**, TEYDEB, TUBITAK · 2014-2016
RTB Software, Ankara, Turkey, **Automatic Text classification for Educational Material**, TEYDEB, TUBITAK, · 2014-2015
T2 Software, Ankara, Turkey, **Sentiment Analysis for Turkish**, · 2013-2014
Etiya AS, Istanbul , Turkey, **Data mining for social media**, · March 2014- June 2014
Attensity Ltd, Belgium, **Implementation of a POS tagger for Turkish**, · 2013-2014

PUBLICATIONS

2005	Çakıcı, Ruket (2005) Automatic Induction of a CCG Grammar for Turkish, In <i>Proceedings of Student Research Workshop</i> , 43rd Annual Meeting of the ACL, Ann Arbor, Michigan
2006	Riedel, Sebastian, Ruket Çakıcı and Ivan Meza-Ruiz (2006) Multi-lingual Dependency Parsing with Incremental Integer Linear Programming, In

Proceedings of Tenth Conference on Computational Natural Language Learning, CoNLL-X, New York.

Çakıcı, Ruket and Jason Baldridge(2006) Projective and Non-projective Turkish parsing, In *Proceedings of Conference on Treebanks and Linguistic Theories (TLT'06)*, Prague, Czech Republic.

2008 Çakıcı, Ruket (2008) Recent Advances in Dependency Parsing, in *Encyclopedia of Artificial Intelligence*, eds. Juan R. Rabunal, Julian Dorado, and Alejandro Pazos Sierra, Information Science Reference.

2009 Çakıcı, Ruket and Mark Steedman (2009), A Wide-Coverage Morphemic CCG Lexicon for Turkish, In *Proceedings of Workshop on Parsing with Categorical Grammars*, ESSLLI 2009, Bordeaux, France.

Zeyrek, Deniz, Ümit Deniz Turan, Cem Bozşahin, Ruket Çakıcı, Ayışığı B. Sevdik-Çallı, Işın Demirşahin, Berfin Aktaş, Ihsan Yalçınkaya and Hale Ögel (2009) Annotating Subordinators in the Turkish Discourse Bank, In *Proceedings of the 3rd Linguistic Annotation Workshop (The LAW)*, ACL-IJCNLP-2009, Singapore.

2012 Çakıcı, Ruket (2012) Morphemic Segmentation in the METU Sabancı Turkish Treebank, In *Proceedings of The Sixth Linguistic Workshop (LAW VI)*, ACL, Jeju, Korea.

Işın Demirşahin, Ayışığı Sevdik-Çallı, Hale Ögel-Balaban, Ruket Çakıcı and Deniz Zeyrek (2012) Turkish Discourse Bank: Ongoing Developments , In *Proceedings of the First Workshop on Language Resources and Technologies for Turkic Languages*, LREC12, Istanbul, Turkey.

Zeyrek, Deniz, Ümit Deniz Turan, Işın Demirşahin and Ruket Çakıcı. (2012) Differential properties of three discourse connectives in Turkish: A Corpus-based analysis of Fakat, Ayrıca, Yoksa., in *Constraints in Discourse III*, eds. Benz, Anton and Peter Khnlein, John Benjamins P&Bns. (pp. 183–206)

Şirin, Utku, Ruket Çakıcı and Deniz Zeyrek. (2012) METU Turkish Discourse Bank Browser, In *Proceedings of the International Conference on Language Resources and Evaluation*, LREC12, Istanbul, Turkey

2013 Akkuş, Burak Kerim and Ruket Çakıcı (2013) Categorization of Turkish news documents with morphological analysis. In *Proceedings of the Student Research Workshop ACL 2013*, Sofia, Bulgaria

Deniz Zeyrek, Işın Demirşahin, Ayışığı B. Sevdik-Çallı, Ruket Çakıcı, Turkish Discourse Bank: Porting a discourse annotation style to a morphologically rich language. *Dialogue and Discourse*, 4, (2013), p.174-184.

2014 Önal, K.Dilek, Pınar Karagöz and Ruket Cakici (2014), Toponym recognition on Turkish tweets, In *Proceedings of Signal Processing and Communications Applications Conference (SIU)*, Vol:22, pp.1758-1761

Kilickaya, Mert, Erkut Erdem, Aykut Erdem, Nazli İkizler Cinbis, Ruket Cakici,(2014) Data-driven image captioning with meta-class based retrieval, In *Proceedings of Signal Processing and Communications Applications Conference (SIU)*, Vol:22., no., pp.1922-1925

Onal, İtir, Ali Mert Ertugrul and Ruken Cakici (2014) Effect of Using Regression on Class Confidence Scores in Sentiment Analysis of Twitter Data, In *Proceedings of the 5th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis*, ACL2014, pp 136141, Baltimore, Maryland, USA.

Özsoy, Makbule Gülçin and Ruket Çakıcı (2014). Contrastive Max-Sum Opinion Summarization. In *Information Retrieval Technology*. Springer International Publishing, 2014. p. 256-267.

- 2015 Yagcioglu, Semih, Erkut Erdem, Aykut Erdem, Ruket Çakıcı (2015) A Distributed Representation Based Query Expansion Approach for Image Captioning. In *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics and The 7th International Joint Conference of the Asian Federation of Natural Language Processing (ACL-IJCNLP 2015)*, Beijing, China.
- Çakıcı, Ruket, Ayıışı B. Sevdik-Çallı and Işın Demirşahin (2015) Turkish Discourse Bank (TDB), *Poster presentation in First TextLink Action Conference*, Louvain-la-Neuve, Belgium, January 26-28, 2015.
- Zeyrek, Deniz, Ruket Çakıcı, Ayıışı B. Sevdik-Çallı, Deniz Zeyrek, Berfin Aktaş, Utku Şirin, Cem Bozşahin and Işın Demirşahin (2015) Turkish Discourse Bank Tools, *Poster presentation in First TextLink Action Conference*, Louvain-la-Neuve, Belgium, January 26-28, 2015.
- Acar, Ahmet Faruk, Ruket Çakıcı,, Deniz Zeyrek (2015) Detecting simplex subordinators in Turkish, *Plenary talk in First TextLink Action Conference*, Louvain-la-Neuve, Belgium, January 26-28, 2015.
- 2016 Bernardi, Raffaella, Ruket Cakici, Desmond Elliott, Aykut Erdem, Erkut Erdem, Nazli Ikizler-Cinbis, Frank Keller, Adrian Muscat and Barbara Plank (2016) Automatic Description Generation from Images: A Survey of Models, Datasets, and Evaluation Measures. *Journal of Artificial Intelligence Research*, Volume 55, p. 409-442.
- Mesut Erhan Unal, Begum Citamak, Semih Yagcioglu, Aykut Erdem, Erkut Erdem, Nazli Ikizler-Cinbis, Ruket Cakici (2016) TasvirEt: Grntlerden Otomatik Trke Aklama Oluturma in Bir Denekta Veri Kmesi (TasvirEt: A Benchmark Dataset for Automatic Turkish Description Generation from Images) *IEEE Signal Processing and Communications Applications Conference (SIU)*, 2016, p. 1-4.
- to appear Çakıcı, Ruket, Cem Bozşahin and Mark Steedman (to appear) Wide-coverage parsing, semantics and morphology, *Studies in Turkish Language Processing*, in preparation for Springer Verlag – *Theory and Applications of Natural Language Processing Book Series*. eds Kemal Oflazer and Murat Saraclar

COMPUTER SKILLS

<i>Languages</i>	Java, C, C++, Python, Lisp, Prolog, Perl, Assembly
<i>Tools and Libs</i>	WEKA, MATLAB, L ^A T _E X, OpenGL, NLTK
<i>Operating Systems</i>	MacOS, Linux/UNIX

OTHER INFORMATION

<i>Awards</i>	2002 · Turkish Council of Higher Education Postgraduate Scholarship
<i>Organizations</i>	2012 - Founding member of the National Chamber of Computer Engineers 2012 - 2014 Audit board of the National Chamber of Computer Engineers 2005 - 2016 Member of Association of Computational Linguistics
<i>Reviewing (Journals)</i>	Computational Linguistics Natural Language Engineering Language Resources and Evaluation Dilbilim Arařtırmaları
<i>Local Committee</i>	Language Resources and Evaluation Conference, Istanbul, Turkey, 2012
<i>Program Committee</i>	5th Workshop on Vision and Language, ACL, Berlin 2016
<i>Program Committee</i>	Various local and international conferences

Languages

TURKISH · Native

ENGLISH · Near Native

GERMAN · Basic

ITALIAN · Basic

Interests

Photography · Poetry · Table Tennis · Languages

July 31, 2016