

A. Cüneyd TANTUĞ

Curriculum Vitae

Address: Istanbul Technical University
Faculty of Electronics and Electrical Engineering
Computer Engineering Department
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EDUCATION

Ph.D. Istanbul Technical University 2002 – 2007
Thesis : “A Hybrid Model For Machine Translation Between Agglutinative and Related Languages”
(GPA : 4.00 / 4.00)

M.Sc. Istanbul Technical University 2000 - 2002
Thesis : “An Efficient Clustering Method For Customer Segmentation”
(GPA : 3.78 / 4.00)

B.Sc. Istanbul Technical University 1996 - 2000
(GPA : 3.56 / 4.00 , Graduated as the 1st honor)

PROFESSIONAL EXPERIENCE

Istanbul Technical University, Turkey 2009 – Now
Lecturer

Turkish Army Forces 2008 - 2009
Military Service (Naval Engineer Lieutenant)

Istanbul Technical University, Turkey 2007 – 2008
Lecturer

Copenhagen University Center for Language Technology, Denmark 2006 – 2007
Visiting Researcher

Istanbul Technical University, Turkey 2000 – 2006
Research and Teaching Assistant

Garanti Teknoloji, Turkey 2000 - 2002
Software Engineer

RESEARCH AREAS

- Natural Language Processing
 - Computational Morphological Analysis, Machine Translation, Turkic Languages, Lexical Ambiguity Resolution
- Data Mining
 - Clustering Methods, Data warehouse Building, Designing OLAP Systems
- Pattern Recognition
 - Classification Methods and Applications, SPAM Recognition

PUBLICATIONS

- **Tantuğ A.C.**, “Document Categorization with Modified Statistical Language Models for Agglutinative Languages”, *International Journal on Computational Intelligence Systems*, vol. 5(3), 2010. (to appear)
- **Tantuğ A.C.**, “A Probabilistic Mobile Text Entry System for Agglutinative Languages”, *IEEE Transactions on Consumer Electronics*, vol. 56(2), pp. 1018-1024, 2010.
- M. Orhun, **Tantuğ A. C.**, Adalı E., “Morphological Disambiguation Rules For Uyghur Language”, *IEEE International Conference on Software Engineering and Service Sciences (ICSESS)*, Beijing, China, 2010.
- M. Orhun, **Tantuğ A. C.**, Adalı E., “Rule Based Analysis of the Uyghur Nouns”, *International Journal of Asian Language Processing*, vol. 19(1), pp. 33-44, 2010.
- M. Orhun, **Tantuğ A. C.**, Adalı E., Sönmez C., “Computational Comparison of the Uyghur and Turkish Grammar”, *2nd IEEE International Conference on Computer Science and Information Technology (ICCSIT2009)*, Beijing, China, 2009.
- M. Orhun, **Tantuğ A. C.**, Adalı E., “Rule Based Tagging of the Uyghur Verbs”, *Fourth International Conference on Intelligent Computing and Information Systems*, Cairo, Egypt, 2009.
- M. Orhun, **Tantuğ A. C.**, Adalı E., “Rule Based Analysis of the Uygur Nouns”, *International Conference on Asian Language Processing*, Chiang Mai, Thailand, 2008.
- **Tantuğ A.C.**, Adalı E., Oflazer K., “Türkmenceden Türkçeye Bilgisayarlı Metin Çevirisi”, *İTÜ Dergisi*, vol:7(4), pp. 83-94, 2008.
- Murat M., Adalı E., **Tantuğ A.C.**, “Uygur Dili ve Makineli Çeviri”, *Akademik Bilişim 2008*, Çanakkale, Turkey, 2008.

- **Tantuğ A.C.**, Oflazer K., Durgar El-Kahlout İ., “BLEU+ : A Fine Grained Tool for BLEU Computation”, *In Proceedings of Language Resources and Evaluation Conference LREC*, Morocco, 2008.
- **Tantuğ A.C.**, Adalı E., Oflazer K., “A MT System from Turkmen to Turkish Employing Finite State and Statistical Methods”, *In Proceedings of MT Summit XI*, Copenhagen, Denmark, 2007.
- **Tantuğ A.C.**, Adalı E., Oflazer K., “Machine Translation between Turkic Languages”, *In Proceedings of 45th Annual Meeting of Association for Computational Linguistics (ACL 2007) Companion Volume*, Prague, Czech Republic, 2007.
- **Tantuğ A.C.**, Adalı E., Oflazer K., “Lexical Ambiguity Resolution for Turkish in Direct Transfer Machine Translation Models”, *Proceedings of 21st International Symposium on Computer and Information Sciences (ISCIS), Lecture Notes in Computer Science*, vol. 4263, pp. 230-238, Springer, 2006.
- **Tantuğ A.C.**, Adalı E., Oflazer K., “Computer Analysis of The Turkmen Language Morphology”, *Proceedings of the 5th International Conference on Natural Language Processing, (FinTAL)*, Turku, Finland, *Lecture Notes in Computer Science*, vol. 4139, pp. 186-193, Springer. 2006.
- **Tantuğ, A.C.**, Eryigit G., “Performance Analysis of Naïve Bayes Classification, Support Vector Machines and Neural Networks For Spam Categorization”, *Applied Soft Computing Technologies: The Challenge of Complexity*, Springer, 2006.
- **Tantuğ A.C.**, Adalı E., Oflazer K., “A Prototype Machine Translation System Between Turkmen and Turkish”, *Proceedings of the Turkish Artificial Intelligence and Neural Networks (TAINN)*, Muğla, Turkey, 2006.
- Eryiğit, G., **Tantuğ, A.C.** and Adalı, E., “Yaramaz E-Postaların Süzülmesinde, Karar Destek Makineleri, Naive Bayes ve Bellek Tabanlı Öğrenme Yöntemlerinin Karşılaştırılması”, *Türkiye Bilişim Vakfı Bilgisayar Bilimleri ve Mühendisliği Dergisi*, vol. 1, pp.27-36, 2006.
- Eryiğit G., **Tantuğ, A.C.**, “A Comparison Of Support Vector Machines, Memory-Based And Naïve Bayes Techniques On Spam Recognition”, *The IASTED conference on Artificial Intelligence Applications (AIA)*, Innsbruck, Austria, 2004.
- **Tantuğ, A.C.**, Eryiğit G., “Probabilistic Turkish Word Root Generation”, *Proceedings of the 3rd Asia Pacific International Symposium on Information Technology (APIS)*, Istanbul, Turkey, 2004.
- **Tantuğ, A.C.**, Cebiroğlu, G., Adalı, E., Erenler, Y., “Synthetic Turkish Word Root Generation”, *Proceedings of the Turkish Artificial Intelligence and Neural Networks (TAINN)*, Çanakkale, Turkey, 2003.

- **Tantuğ, A.C.,** Adalı, E., "Fast K-Means in Data Mining", *Bilisim Zirvesi 2002 Bildiriler Kitabı*, Istanbul, Turkey, 2002.

TEACHING

- İTÜ Computer Engineering Department Graduate Program
 - Machine Translation (*Spring 2010*)
- İTÜ Information Technologies Graduate Program
 - Database Systems (*Fall 2007, Fall 2009, Fall 2010*)
- İTÜ Computer Engineering Department Undergraduate Program
 - Software Engineering (*Fall 2007, Fall 2009-2010*)
 - Object Oriented Programming (*Spring 2008, Fall 2009, Spring 2010*)
 - Microprocessor Applications Laboratory (*Spring 2008*)
 - Intro. To Inf. Sys. & Comp. Eng. (*Fall 2009, Fall 2010*)
 - Intro. To Sci. & Eng. Comp. (*Spring 2010*)
- İTÜ Information Systems Engineering Undergraduate Program
 - Operating Systems (*Fall 2010*)
 - Programming II (*Spring 2010, Summer 2010*)
- İTÜ Computer Engineering Department Undergraduate Program - Courses Assisted
 - Database Systems (*Fall 2005*)
 - Microprocessors (*Spring 2001-2005, Summer 2004*)
 - Real Time Systems (*Fall 2004*)
 - Computer Architecture (*Fall 2001*)
 - Software Engineering (*Fall 2004*)
 - Microprocessor Applications Lab. (*Fall 2003*)
 - Microprocessors Lab. (*Fall 2002-2006*)
 - Operating Systems (*Spring 2004*)
 - File Organization (*Fall 2003*)
 - Intro. To Sci. & Eng. Comp. (*Spring 2005*)

RESEARCH PROJECTS

- **English To Turkish Machine Translation Project** 2010 –
 - Investigator
 - Supported by DPT (Turkish Prime Ministry State Planning Organization)

- **Design of an MT System Between Turkmen and Turkish** 2006 – 2009
 - This project aims the design of a machine translation system between Turkmen Language to Turkish. This project includes the steps of building and investigating the proper methods and tools, generating linguistic materials (bi-lingual dictionaries, morphological analyzers, language models for statistical ambiguity resolution methods and etc.)
 - Supported by TÜBİTAK (National Science Foundation of Turkey)

- **Customer Segmentation Software Project** 2000 – 2002
 - Implemented for one of the biggest banks in Turkey for customer segmentation using a customer datawarehouse
 - Technologies : C++, DB2, Intelligent Miner

COMMERCIAL PROJECTS

- **Remote Monitoring and Control of GSM Base Stations** 2010 –
 - This project is supported by The Turkish Ministry of Industry and Trade and Turkish Small & Medium Enterprises Development Organization.

- **Motorola Custom Performance Statistics Solution** 2008
 - A customized data structure for clustered network and reliable data loading with an application optimized for fast navigation
 - Technologies : Oracle 10i

- **K@Plan –ERP Software** 2002 – 2004
 - An enterprise resource planning (including MRP-2) software for knitting
 - Technologies : Delphi, ADO, SQL Server 2000

- **Electronic Data Interchange (EDI) Over VPN** 2000 – 2003
 - Implemented EDI systems for connecting 155 headquarters of the Turkey’s biggest tobacco company
 - Technologies : Delphi, Oracle 8i

- **Istanbul Technical University Dormitory Management Software** 2002 – 2003
 - A database application which is used in 7 different dormitory of ITU for the administration of dormitories (students information, payments, room planning, etc.)
 - Technologies : 4th Dimension RDBMS
- **Cukurova University Research Projects Supporting Department** 1996
 - A software for keep tracking of research projects in Cukurova University (expenses, reports, stuff, materials, etc.)
 - Technologies : 4th Dimension RDBMS

PROFESSIONAL ACTIVITIES

- Founder of the start-up company TelcomIT, 2010.
- ACL 2010 Student Research Workshop 2010, Reviewer.
- TÜBİTAK Turkish Journal Of Electrical Engineering & Computer Sciences, 2010, Reviewer.
- TÜBİTAK – TEYDEB 2009-2010, Project Reviewer.
- International Conference On Electrical And Electronics Engineering, ELECO 2009, Reviewer
- International Symposium on Computer and Information Sciences ISCIS 2008, Reviewer
- ACL 2008 Student Research Workshop Reviewer, 2008
- II. Computational Linguistics Workshop, 2006, Istanbul, Organizing Committee Member.
- The Third Asia Pacific International Symposium on Information Technology, 2004, Organization Committee Member.
- The Third Asia Pacific International Symposium on Information Technology, 2004, Reviewer.

MEMBERSHIPS

- ACL Member (The Association for Computational Linguistics)
- IEEE Member
- İTÜ Natural Language Processing Group, Founding Member
- İTÜ Computer Engineering Department Alumni Commission Member

HONORS

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|---|------|
| • Siemens Excellency Award | 2007 |
| • Garanti Technology Postgraduate Scholarship (for 2 years) | 2000 |
| • Bedri Karafakioglu Special Award, ITU | 2000 |
| • Northern Telecom – NETAS, Success Grant | 1999 |

INVITED TALKS

- Title : Natural Language Processing and Turkish
Bilgi University, Istanbul, Turkey, December 2009
- Title : Machine Translation
Bilgi University, Istanbul, Turkey, November 2007
- Title : Computer Processing of Turkish
Copenhagen University Center for Language Technology, Copenhagen, Denmark, 12.11.2006
- Title : Machine Translation and Turkic Languages
II. Computational Linguistics Workshop, Istanbul, Turkey, 10.06.2006

LANGUAGES

- Turkish (Native)
- English (Advanced)
- German (Introductory)

TECHNICAL SKILLS

Programming Languages: Perl, C/C++, Java, Delphi, MatLAB
Database Systems: Oracle, SQL Server, 4th Dimension
Tools Used Professionally: Xerox Finite State Toolkits, CMU-Cambridge SLM Toolkit, GATE, Macromedia Dreamweaver, Fireworks, Adobe Photoshop,

NON-TECHNICAL INTERESTS

Playing soccer as a goalkeeper, economics and marketing, reading personal development books