



CURRICULUM VITAE

NAME : Ilker Kocabas

OFFICE ADDRESS : International Computer Institute
35100, Bornova/IZMIR

TELEPHONE : (+90 232) 311 3200

FAX : (+90 232) 388 7230

E-MAIL : ilker.kocabas@ege.edu.tr

BIRTH INFORMATION : 25.04.1978
Izmir/TURKEY

AREAS OF INTEREST : Information Retrieval & Theory
Natural Language Processing
Distributed/Parallel Systems & Algorithms

EDUCATIONAL BACKGROUND:

March 2011, **PhD.** Degree in Computer Science, International Computer Institute, Ege University, Izmir, Turkey
Dissertation title: Index Term Weighting Based on Statistical Independence for Information Retrieval Systems. Advisor: Prof. Bahar KARAOGLAN, Co-Advisor: Asst. Prof. Bekir Taner Dincer.

March 2005, **M.Sc.** Degree in Computer Science, International Computer Institute, Ege University, Izmir, Turkey
Dissertation title: A Study on Decomposition Based Stable Merging Algorithms. Advisor: Prof. Mehmet Emin Dalkilic

June 2000, **B.Sc.** Degree in Electrical and Electronics Engineering, Middle East Technical University, Ankara, Turkey.

ACADEMIC AND INDUSTRIAL EXPERIENCE:

September 2013 to -----	Assistant Professor, International Computer Institute (ICI), Ege University, Izmir, Turkey.
September 2001 to September 2013	Research Assistant, International Computer Institute (ICI), Ege University, Izmir, Turkey.
September 2011 to November 2012	R&D Consultant for Apaz Medical Ltd. Co., Izmir, Turkey.
November 2006 to November 2007	Consultant for Philips Ltd. Co., Izmir, Turkey.
September 2000 to July 2001	Project Engineering, Aykon Electric Contracting Ltd. Co., Ankara, Turkey

PROFESSIONAL ACTIVITIES:

- Projects
 - 2009 to 2011** **Researcher**, “Assessment and Performance Measurement of Semantic Service Discovery Methods on Mobile Platforms”, No: 09-UBE-003, BAP Project, Ege University, Izmir, Turkey.
 - 2008 to 2010** **Researcher**, “Design of A Statistical Information Retrieval System”, No: 107E192, Tübitak Project, Ankara, Turkey.
 - 2005 to 2008** **Researcher**, “Quantitative Linguistic Measures of Written Turkish Based on Zipf Laws”, No: 104E120, Tübitak Project, Ankara, Turkey.
 - 2005 to 2007** **Researcher**, “Setting up a Sensor Networks Laboratory”, No: 07-UBE-001, BAP Project, Ege University, Izmir, Turkey.
- Organizing Committee Member of the Fifteenth Turkish Symposium on Artificial Intelligence and Neural Networks ([TAINN 2006](#)), June 21-24, 2006, Akyaka, Mugla, Turkey.
- Reviewer, The 10th International Conference on Electronics, Computer and Computation (ICECCO 2013), November 7-9, 2013, Ankara, Turkey.
- Reviewer, The 18th International Conference on Transformative Science and Engineering, Business and Social Innovation (SDPS 2013), October 29, 2013, Campinas, Sao Paulo, Brazil.
- Guest Editor, Special Issue: [Information Processing in Software Engineering: Theories, Methodologies and Practices](#), Journal of Integrated Design & Process Science, ISSN: 1092-0617, 2013.

PUBLICATIONS:

▪ International Journal Papers:

- **Kocabas, I., Dincer, B. T., & Karaoglan, B.,** 2013, A Nonparametric Term Weighting Method for Information Retrieval Based on Measuring the Divergence from Independence, *Information Retrieval* (**in press**).
- **Kocabas, I., & Dincer, B. T.,** 2013, A New Statistical Strategy for Pooling: ELI, *Information Processing Letters (IPL)*, 113(19):739-746.
- **Kocabas, I., Karaoglan, B, and Dincer, B. T.,** 2011, Luhn's point of view: Median-based term weighting schemes, *International Journal of Natural and Engineering Sciences (IJNES)*, 5(3):31-35.
- **Kocabas, I., Dincer, B. T., and Karaoglan, B.,** 2011, Investigation of luhn's claim on information retrieval, *Turkish Journal of EE & CS (TJEECS)*, 19(6):993-1004.

▪ International Conference Proceedings:

- **Dincer, B. T., Kocabas, I., & Karaoglan, B.,** 2010, IRRA at TREC 2010: Index Term Weighting based on Divergence From Independence Model, NIST Special Publication 500-280:The 19th Text Retrieval Conference Proceedings (TREC 2010).
- **Dincer, B. T., Kocabas, I., & Karaoglan, B.,** 2009, IRRA at TREC 2009: Index Term Weighting based on Divergence From Independence Model, NIST Special Publication 500-278:The 18th Text Retrieval Conference Proceedings (TREC 2009).
- **Kocabas, I., Kislal, T., ve Karaoglan, B.,** 2007, Zipf's law of burstiness in Turkish: The length of intervals between repetitions, *In Proceedings of 22nd International Symposium on Computer and Information Sciences (ISCIS'07)*, 1-3.

BRIEF INFORMATION ON CURRENT & FUTURE RESEARCH

Currently, my primary focus is to construct a statistical based model for the index term weighting which is applicable to online search task. Meanwhile, I am interested in the area of NLP- essentially the relation between semantics and syntax of the languages: Turkish and English. The other research interests on the computational linguistics are the morphological analysis, part-of-speech tagging, stemming, collocations, synonyms and etc. In 2015, I plan to open the following courses: 1) mathematical and statistical methods in Linguistics, and 2) corpus-based methods in linguistics and speech processing.

REFERENCES:

- Prof. Dr. Fazli Can, Computer Engineering Department, Bilkent University, Ankara, Turkey.
E-mail: canf@cs.bilkent.edu.tr, Telephone: +90 (312) 290 2613
- Prof. Dr. Bahar Karaoglan, International Computer Institute, Ege University, Izmir, Turkey.
E-mail: bahar.karaoglan@ege.edu.tr, Telephone:+90 (232) 342 3232 - 113
- Prof. Dr. Fevzi Belli, University of Paderborn, Germany
E-mail: belli@upb.de, Telephone: +49 052 5160-3448
- Cagdas Buyukol, Compensation Lead, Asia & Pacific @ Google, Singapore
Telephone: +659 296 6638