Ekrem Kocaguneli

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Address (Work)
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West Virginia University
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Personal Data

<u>Date & Place of Birth</u>	08.12.1984 / Bulgaria
<u>Nationality</u>	Turkish, Bulgarian
<u>Gender & Marital Status</u>	Male / Single
<u>Driver License:</u>	B

Education

- West Virginia University, (2010 Current), Morgantown/USA, PhD in Computer Science, 3.80/4.00
- Bogazici University, (2008 - 2010), Istanbul/Turkey, MSc in Computer Engineering, 3.65/4.00, Thesis: *"Better Methods for Configuring Case-based Reasoning Systems"*
- Bogazici University, (2003 - 2008), Istanbul/Turkey, BSc in Computer Engineering, 3.23/4.00
- University of Bonn, (2006 - 2007), Bonn/Germany, Exchange Student
- Bursa Private Nilfer Science High School, (2000 - 2003), Bursa/Turkey, 5.00/5.00

Journal Publications

- E. Kocaguneli, T. Menzies, A. Bener, J. Keung, Exploiting the Essential Assumptions of Analogy-based Effort Estimation", IEEE Trans. Softw. Eng., to appear in 2011.

Under Review Journal Publications

- E. Kocaguneli, T. Menzies, J. Keung, *"On the Value of Ensemble Effort Estimation"*, submitted to IEEE Trans. Softw. Eng. (under major review)
- J. Keung, E. Kocaguneli, T. Menzies, *"A Ranking Stability Indicator for Selecting the Best Effort Estimator in Software Cost Estimation"*, submitted to Journal of Automated Software Engineering.
- E. Kocaguneli, T. Menzies, J. Keung, *"Kernel Methods for Software Effort Estimation"*, submitted to Empirical Software Engineering Journal.

Conference Publications

- E. Kocaguneli, T. Menzies, *"How to Find Relevant Data for Effort Estimation"*, International Symposium on Empirical Software Engineering and Measurement (ESEM) 2011
- E. Kocaguneli, B.Caglayan, A. Tosun, A. Bener, *"Experiences on Developer Participation and Effort Estimation"*, EUROMICRO Conference on Software Engineering and Advanced Applications (SEAA) 2011
- E. Kocaguneli, G. Gay, Y. Yang, T. Menzies, *"When to Use Data from Other Projects for Effort Estimation"*, International Conference on Automated Software Engineering (ASE) 2010
- E. Kocaguneli, A. Tosun, A. Bener, *"AI-Based Models for Software Effort Estimation"*, 36th EUROMICRO Conference on Software Engineering and Advanced Applications (SEAA) 2010

- E. Kocaguneli, Y. Kultur, A. Bener, *"Combining Multiple Learners Induced on Multiple Datasets for Software Effort Prediction"*, Proceedings of International Symposium on Software Reliability Engineering (ISSRE) 2009.

- E. Kocaguneli, A. Tosun, A. Bener, B. Turhan, B. Caglayan, *"Prest: An Intelligent Software Metrics Extraction, Analysis and Defect Prediction Tool"*, Proceedings of International Conference on Software Engineering and Knowledge Engineering (SEKE) 2009.

- Ayse Tosun, Ayse Bener, Ekrem Kocaguneli, *"BITS: Issue Tracking and Project Management Tool in Healthcare Software Development"*, Proceedings of International Conference on Software Engineering and Knowledge Engineering (SEKE) 2009.

- A. Bakir, E. Kocaguneli, A. Tosun, A.Bener and B. Turhan *"Xiruxe: An Intelligent Fault Tracking Tool"*, Proceedings of International Conference on Artificial Intelligence and Pattern Recognition (AIPR) 2009.

- Y. Kultur, E. Kocaguneli, A. Bener, *"Discovering Cost Related Features: Focus on Classification Models"*, Poster Paper in Empirical Software Engineering and Measurement (ESEM) 2009.

- E. Kocaguneli, A. Tosun, B. Caglayan, A. Bener, T. Aytac, B. Turhan, *"Bulutlarda Akll Bir Yazlm lmleme, Hata Analiz ve Tahmin Arac: Prest"*, (in Turkish), 2nd National Symposium on Software Engineering (UYMS) 2009

- Y. Kultur, E. Kocaguneli, A. Bener, *"Domain Specific Phase by Phase Effort Estimation in Software Projects"*, Proceedings of International Symposium on Computer and Information Sciences (ISCIS) 2009.

Employment History

- West Virginia University Modeling Intelligence Laboratory-USA, (15.01.2010 Current)

    I am working as a graduate research assistant and building up my research on applications of machine learning solutions to emerging software effort estimation problems towards my PhD degree.

- Bogazici University Software Research Laboratory-Turkey, (14.07.2008 30.12.2009)

    Researcher in Software Research Laboratory (Softlab) of Department of Computer Engineering. I participated in 4 industry collaborated projects as a team lead and team member.

- Inveon Software Development House-Turkey, (14.04.2008-11.07.2008)

    Part-time software development specialist using ASP.NET.

- SAP AG-Germany, (18.07.2007-28.09.2007)

    Long Term Trainee in SAP-Volume Business Model (VBM) Project in SL Enterprise Solutions Office of the CEO Department.

- BOSCH-Turkey, (03.07.2006-01.09.2006)

    Long Term Trainee in SAP-Archiving Project in Bosch IT-Turkey Department. Projects

- IBTech, (April 2009 December 2009), Team Lead

    This is an industry funded research project to implement a software effort prediction model for IBTech, which is the software development subsidiary of an international bank in Turkey. This project involves developing a model that will predict development effort of a software project for each phase of a software development life-cycle.

- Turkcell, (2007 2009), Team Member

  This is an industry funded research project to develop a measurement and defect prediction model. The project involves mining software metrics repositories of Turkcell as well as building a Bayesian model that includes software processes, churn metrics, and static code attributes to determine a level of confidence.

- Aras Logistics, (2008), Team Member

  This is an industry funded project to conduct an assessment of an existing legacy software as well as the software development processes.

- Xiruxe, Turkcell, (2008 - 2009), Team Member

  This is an industry funded research project to develop an intelligent fault localization tool. The tool provides a learning-based intelligent agent to determine message types by using machine learning algorithms to predict the actual location of faults within large software platforms.

Other

- Vice President, Turkish Student Organization at West Virginia University, (2010 - Current)
- Webmaster, Website of Promise data repository (http://promisedata.org/) (2010 - Current)
- Webmaster, Software Engineering Laboratory (www.softlab.boun.edu.tr) at Bogazici University (2008 - 2009)
- Team Leader, Implementing Circulating Capital Project for Finance Dept. of the Bogazici University, I was responsible for a developer team of 30 computer engineering seniors (2008)
- Organizer, Future in IT, A conference about the future of IT (2005)
- Vice Editor, Steps-Magazine of Bogazici University Engineering Society (2004-2005)
- Member of Organization Committee, Engineers of Future - A conference series (2005)
- Member of Engineering Society, Bogazici University (2003-2007)
- University Entrance Exam, 81st place out of 1.7 Million Students in Turkey, (2003)

Skills

- Programs: WEKA (advanced), MS-Word (advanced), Excel (advanced), Power-Point (advanced)
- Programming Languages: Java, MATLAB, ASP.NET, C/C++, ABAP, SQL, HTML, JavaScript, Excel Visual Basic, MPI, Perl, Assembly, Scheme, Prolog
- Languages:
  - English : Fluent spoken & written
  - German : Advanced (C2)
  - Turkish : Mother Tongue
- Hobbies: Trumpet, guitar, photography, formula-1.