Assoc. Prof. Ayşe Tosun Kühn

Personal Information

Email: tosunay@itu.edu.tr
Web: https://avesis.itu.edu.tr/tosunay

International Researcher IDs
ORCID: 0000-0003-1859-7872
Publons / Web Of Science ResearcherID: B-4794-2014
ScopusID: 26649652100
Yoksis Researcher ID: 215748

Biography

Dr. Ayse Tosun is an assistant professor at Faculty of Computer and Informatics, Istanbul Technical University (ITU), Istanbul, Turkey. Prior to joining ITU, she worked as a post-doctoral research fellow at Department of Information Processing Science, University of Oulu, Finland. She received her PhD in 2012, and MSc degree in 2008 from Department of Computer Engineering, Bogazici University, Turkey. Her research interests are empirical software engineering, more specifically mining software data repositories, software measurement, software process improvement, software quality prediction models, and applications of AI on building recommendation systems for software engineering.

Education Information

Doctorate, Bogazici University, Faculty Of Engineering, Department Of Computer Engıneerıng, Turkey 2008 - 2012
Postgraduate, Bogazici University, Faculty Of Engineering, Department Of Computer Engıneerıng, Turkey 2006 - 2008
Undergraduate, Sabanci University, Faculty Of Engıneerıng And Natural Scıences, Department Of Natural Scıences And Engıneerıng Program, Turkey 2001 - 2006

Foreign Languages

English

Dissertations

Doctorate, Modelling software reliability using hybrid Bayesian networks, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2012
Postgraduate, Defect prediction in embedded software systems:cascading naive bayes algorithm with cross- vs within-company data, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2008

Research Areas

Technical Sciences, Computer Sciences, Software, Software Engineering

Academic Titles / Tasks

Assistant Professor, Istanbul Technical University, Bilgisayar ve Bilişim, Bilgisayar Mühendisliği, 2018 - Continues
Assistant Professor, Istanbul Technical University, Bilgisayar ve Bilişim, Bilgisayar Mühendisliği, 2014 - 2018
Assistant Professor, Sabanci University, Faculty Of Engineering And Natural Sciences, Department Of Natural Sciences And Engineering Program, 2016 - 2016
Lecturer PhD, University of Oulu, Information Processing Science, 2012 - 2014
Research Assistant, Bogazici University, Faculty Of Engineering, Department Of Computer Engineering, 2009 - 2010

Courses

Recommendation Systems for Software Engineering, Doctorate, 2015 - 2016

Jury Memberships

Post Graduate, Tez Savunma Jüri üyesi, Galatasaray Üniversitesi, July, 2017
Post Graduate, Tez Savunma Jüri üyesi, İTÜ, June, 2016
Post Graduate, Tez Savunma Jürisi, Oulu Universitesi, February, 2016
Post Graduate, Tez Savunma Jüri üyesi, İTÜ, June, 2015
Post Graduate, Tez Savunma Jüri üyesi, İTÜ, May, 2015

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Order dispatching for an ultra-fast delivery service via deep reinforcement learning**
Kavuk E. M., Tosun Kühn A., Cevik M., Bozanta A., Sonuc S. B., Tutuncu M., Kosucu B., Basar A.
APPLIED INTELLIGENCE, vol.52, no.4, pp.4274-4299, 2022 (SCI-Expanded)

II. **Deployment of a change-level software defect prediction solution into an industrial setting**
Eken B., Tufan S., Tunaboylu A., Guler T., Atar R., Tosun Kühn A.
JOURNAL OF SOFTWARE-EVOLUTION AND PROCESS, vol.33, no.11, 2021 (SCI-Expanded)

III. **An empirical study on the effect of community smells on bug prediction**
Eken B., Palma F., Ayse B., Ayse T.
SOFTWARE QUALITY JOURNAL, vol.29, no.1, pp.159-194, 2021 (SCI-Expanded)

Supported Projects

Tosun Kühn A., Project Supported by Higher Education Institutions, Yazılım Hatalarının Çözüm Süresinin Modellenmesi, 2016 - 2019
Tosun Kühn A., Project Supported by Higher Education Institutions, Are Students Representatives of Professionals in Software Engineering Experiments, 2015 - 2018

Activities in Scientific Journals

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES , Editor, 2017 - Continues

Metrics

Publication: 75
Citation (WoS): 238

Citation (Scopus): 351
H-Index (WoS): 9
H-Index (Scopus): 11

Non Academic Experience

UNIVERSITY OF OULU