

Asst. Prof. Ayşe Tosun Kühn

Personal Information

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Biography

Dr. Ayşe 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, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2008 - 2012

Postgraduate, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2006 - 2008

Undergraduate, Sabancı Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Mühendislik Ve Doğa Bilimleri Programları Bölümü, 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, Sabancı Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Mühendislik Ve Doğa Bilimleri Programları Bölümü, 2016 - 2016

Lecturer PhD, University Of Oulu, Information Processing Science, 2012 - 2014

Research Assistant, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 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 Üniversitesi, February, 2016

Post Graduate, Tez Savunma Jüri üyesi, İTÜ, June, 2015

Post Graduate, Tez Savunma Jüri üyesi, İTÜ, May, 2015

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

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

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

Citations

Total Citations (WOS):234

h-index (WOS):9