

Asst. Prof. Ahmet COŞKUNÇAY

Personal Information

Office Phone: [+90 442 231 6052](tel:+904422316052)

Email: ahmet.coskuncay@atauni.edu.tr

Web: <https://atauni.edu.tr/ahmet-coskuncay>

International Researcher IDs

ScholarID: Kj97CCAAAAAJ

ORCID: 0000-0002-7411-310X

Publons / Web Of Science ResearcherID: M-5099-2019

ScopusID: 56426408500

Yoksis Researcher ID: 164267



Biography

Ahmet Coşkunçay is an assistant professor in Computer Engineering Department of Ataturk University, Turkey. As a PhD holder in Information Systems from Middle East Technical University, he has been actively participating in private sector projects as a software engineering researcher and consultant. He is also the head of the Department of Computer Engineering. His research interests include business process management, software process improvement, software requirements engineering, and ontology development. Contact him at ahmet.coskuncay@gmail.com

Education Information

2010 - 2016	Doctorate, Middle East Technical University, Graduate School Of Informatics, Bilişim Sistemleri, Turkey
2007 - 2010	Postgraduate, Middle East Technical University, Graduate School Of Informatics, Bilişim Sistemleri, Turkey
2002 - 2007	Undergraduate, Middle East Technical University, Faculty Of Engineering, Endüstri Mühendisliği, Turkey

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

2011	CMMI for Development v1.3, IT, Carnegie Mellon University - Software Engineering Institute (SEI)
2010	COSMIC Functional Size Measurer, IT, Common Software Measurement International Consortium

Dissertations

2016	A Method and Tool Support for Integrated Business Process Modeling and Ontology Development, Orta Doğu Teknik Üniversitesi, Enformatik Enstitüsü, Bilişim Sistemleri, Doctorate
2010	An Approach for Generating Natural Language Specifications by Utilizing Business Process Models, Orta Doğu Teknik Üniversitesi, Enformatik Enstitüsü, Bilişim Sistemleri, Postgraduate

Research Areas

Computer Sciences, Computer Learning, Software, Software Engineering

Academic Titles / Tasks

2018 - Continues	Assistant Professor, Ataturk University, Mühendislik Fakültesi, Bilgisayar Mühendisliği
2017 - 2018	Medical Doctor, Middle East Technical University, Graduate School Of Informatics, Bilişim Sistemleri
2016 - 2017	Medical Doctor, Ted University, Faculty Of Engineering, Bilgisayar Mühendisliği
2007 - 2016	Research Assistant, Middle East Technical University, Graduate School Of Informatics, Bilişim Sistemleri

Academic and Administrative Experience

2022 - Continues	Head of Department, Ataturk University, Mühendislik Fakültesi, Bilgisayar Mühendisliği
2021 - 2022	Deputy Head of Department, Ataturk University, Mühendislik Fakültesi, Bilgisayar Mühendisliği

Courses

2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021	Bilgisayar Müh. Seçmeli Tasarım II, Undergraduate
2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019	Nesneye Yönelik Programlama, Undergraduate
2023 - 2024	Yazılım Doğrulama ve Geçerleme, Undergraduate
2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020	Semantic Web Technologies, Postgraduate
2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021	Bilgisayar Müh. Seçmeli Tasarım II, Undergraduate
2023 - 2024	Vocational Education in Business, Undergraduate
2023 - 2024	Yazılım Doğrulama ve Geçerleme, Undergraduate
2023 - 2024, 2022 - 2023, 2021 - 2022	İşletmede Mesleki Eğitim, Undergraduate
2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019	Object Oriented Programming, Undergraduate
2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020	İşletim Sistemleri, Undergraduate
2023 - 2024, 2022 - 2023	Yazılım Mühendisliği, Undergraduate

2023 - 2024, 2022 - 2023, 2021 - 2022	Bilgisayar Müh.Seçmeli Tasarım I, Undergraduate
2023 - 2024, 2022 - 2023, 2021 - 2022	Bilgisayar Müh. Seçmeli Tasarım I, Undergraduate
2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020	İşletim Sistemleri, Undergraduate
2023 - 2024, 2022 - 2023	Operating Systems, Undergraduate
2022 - 2023, 2021 - 2022	Advanced Software Engineering, Postgraduate
2023 - 2024, 2022 - 2023	Yazılım Mühendisliği, Undergraduate
2023 - 2024, 2022 - 2023	Software Engineering, Undergraduate
2021 - 2022, 2020 - 2021, 2019 - 2020	İstatistik ve Olasılık, Undergraduate
2021 - 2022, 2020 - 2021	Bitirme Projesi II, Undergraduate
2021 - 2022, 2020 - 2021, 2019 - 2020	İstatistik ve Olasılık, Undergraduate
2021 - 2022, 2020 - 2021	Bitirme Projesi II, Undergraduate
2021 - 2022	Statistics and Probability, Undergraduate
2020 - 2021	Object Oriented Programming, Undergraduate
2021 - 2022	Bitirme Projesi I, Undergraduate
2021 - 2022	Visual Programming, Undergraduate
2021 - 2022	Bitirme Projesi I, Undergraduate
2020 - 2021, 2019 - 2020, 2018 - 2019	Software Quality Management, Postgraduate
2020 - 2021, 2019 - 2020, 2018 - 2019	Veritabanı Yönetim Sistemleri, Undergraduate
2020 - 2021, 2019 - 2020, 2018 - 2019	Database Management Systems, Undergraduate
2018 - 2019	Programlamaya Giriş, Undergraduate
2018 - 2019	Programlamaya Giriş, Undergraduate
2016 - 2017	Introduction to Information Technologies, Undergraduate
2016 - 2017	Management Information Systems, Postgraduate
2017 - 2018	Software Project Management, Postgraduate
2016 - 2017	Management Information Systems, Undergraduate
2016 - 2017	Introduction to Information Technologies, Undergraduate

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The impact of implementing backbone architectures on fracture segmentation in X-ray images**
Turk S., Bingol O., COŞKUNÇAY A., AYDIN T.
Engineering Science and Technology, an International Journal, vol.59, 2024 (SCI-Expanded)
- II. **What Makes Agile Software Development Agile?**

Kuhrmann M., Tell P., Hebig R., Kluender J., Muench J., Linssen O., Pfahl D., Felderer M., Prause C. R., MacDonell S. G., et al.

IEEE TRANSACTIONS ON SOFTWARE ENGINEERING, vol.48, no.9, pp.3523-3539, 2022 (SCI-Expanded)

- III. **A method for integrated business process modeling and ontology development**
COŞKUNÇAY A., Demirors O.
BUSINESS PROCESS MANAGEMENT JOURNAL, vol.28, no.3, pp.606-629, 2022 (SSCI)
- IV. **Characterizing industry-academia collaborations in software engineering: evidence from 101 projects**
Garousi V., Pfahl D., Fernandes J. M., Felderer M., Mantyla M., Shepherd D., Arcuri A., Coşkunçay A., Tekinerdogan B.
EMPIRICAL SOFTWARE ENGINEERING, vol.24, pp.2540-2602, 2019 (SCI-Expanded)
- V. **Correlation of critical success factors with success of software projects: an empirical investigation**
GAROUSİ V., TARHAN A., PFAHL D., Coskuncay A., Demirors O.
SOFTWARE QUALITY JOURNAL, vol.27, no.1, pp.429-493, 2019 (SCI-Expanded)
- VI. **Cross-factor analysis of software engineering practices versus practitioner demographics: An exploratory study in Turkey**
Garousi V., Coskuncay A., Demirors O., Yazici A.
JOURNAL OF SYSTEMS AND SOFTWARE, vol.111, pp.49-73, 2016 (SCI-Expanded)
- VII. **A survey of software engineering practices in Turkey**
Garousi V., Coskuncay A., Betin-Can A., Demirors O.
JOURNAL OF SYSTEMS AND SOFTWARE, vol.108, pp.148-177, 2015 (SCI-Expanded)
- VIII. **Software Development in Turkey**
Demirors O., Coskuncay A.
IT PROFESSIONAL, vol.17, no.3, pp.10-13, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **Crop Classification with Attention Based BI-LSTM and Temporal Convolution Neural Network Combination for Remote Sensing Breizhcrop Time Series Data**
BANDAR A. N. A. A., Coşkunçay A.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.29, no.1, pp.173-188, 2024 (Peer-Reviewed Journal)
- II. **Enhancing Software Process Assessment with an Ontology-Based Tool: Integrating CMMI, SPICE, and TMMI Models**
Başkara R., Coşkunçay A.
Gazi University Journal of Science Part A: Engineering and Innovation, vol.10, no.4, pp.542-554, 2023 (Peer-Reviewed Journal)
- III. **Derin Evrişimli Sinir Ağları Kullanılarak Pirinç Hastalıklarının Sınıflandırılması**
Veziroğlu E., Paçal İ., Coşkunçay A.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.2, pp.792-814, 2023 (Peer-Reviewed Journal)
- IV. **Modeling Automobile Sales in Türkiye with Regression-Based Machine Learning Algorithms**
BABAOĞLU M., COŞKUNÇAY A., AYDIN T.
Journal of Data Applications, vol.1, pp.19-33, 2023 (Peer-Reviewed Journal)
- V. **An Exploratory Case Study for Assessing the Measurement Capability of an Agile Organization**
SALMANOĞLU M., COŞKUNÇAY A., YILDIZ A., DEMİRÖRS O.
Software Quality Professional Magazine, vol.20, pp.36-47, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Entrepreneurship and Entrepreneurial Ecosystem: Effects of COVID-19 and the Role of ICTs.**
Fındık Coşkunçay D., Coşkunçay A.

Refereed Congress / Symposium Publications in Proceedings

- I. **Process Mining in Subject-Oriented Business Process Modeling**
TAYBA A., COŞKUNÇAY A., ÖZYER B., LEBLEBİCİ O., DEMİRÖRS O.
Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'22), Erzurum, Turkey, 27 February 2023, vol.1360, pp.300-309
- II. **Stetoskop Sesinden Kalp Atışı Anormalliklerinin Sınıflandırılması**
VEZİROĞLU E., COŞKUNÇAY A., YAĞANOĞLU M.
Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'22), Erzurum, Turkey, 27 February 2023, vol.1360, pp.272-286
- III. **Research Trends in Mobile Robots: A Comparative Analysis within the Periods Before and After the Industry 4.0 Revolution**
Uğuz S., Özyer B., Coşkunçay A.
12th International Conference on Industrial Technology and Management, Cambridge, England, 16 - 18 February 2023, pp.1-5
- IV. **The Task of Picking Up Boxes Using a Robotic Manipulator Based on Semantic Knowledge**
ÖZTÜRK S. B., UĞUZ S., ÖZYER B., COŞKUNÇAY A.
Joint Ontology Workshops 2022 (JOWO 2022), Jönköping, Sweden, 15 August 2022
- V. **An ontology to support TMMi-based test process assessment**
Çiflikli E. G., COŞKUNÇAY A.
18th International Conference on Software Process Improvement and Capability Determination, SPICE 2018, Thessaloniki, Greece, 9 - 10 October 2018, vol.918, pp.345-354
- VI. **TRANSFORMATION FROM BUSINESS PROCESS MODELS TO PROCESS ONTOLOGY: A CASE STUDY**
COŞKUNÇAY A., GÜRBÜZ Ö., DEMİRÖRS O.
MCIS 2017, 4 - 05 September 2017
- VII. **PROMPTUM toolset: Tool support for integrated ontologies and process models**
Coşkunçay A., Gürbüz Ö., Demirörs O., EKİNCİ E. E.
International Conference on Business Process Management, BPM 2016, Rio-De-Janeiro, Brazil, 18 - 22 September 2016, vol.281, pp.93-105
- VIII. **Exploration of a Practical Approach for Assessing the Measurement Capability of Software Organizations**
SALMANOĞLU M., Demirörs O., Coskunçay A., Yildiz A.
17th International Conference on Software Process Improvement and Capability Determination (SPICE), Palma de Mallorca, Spain, 4 - 05 October 2017, vol.770, pp.415-429
- IX. **Model Tabanlı Süreç İyileştirme Çalışmalarının Kurumlarda Benimsenmesine Yönelik Bir Anket Çalışması**
Yıldız A., COŞKUNÇAY A., DEMİRÖRS O., SEYREKBASAN İ., ALTAY M.
Ulusal Yazılım Muhendisligi Sempozyumu (UYMS) 2014, Güzelyurt, Cyprus (Kktc), 8 - 10 September 2014
- X. **İş Süreç Modellerinden Süreç Ontolojisine Dönüşüm Bir Durum Çalışması**
COŞKUNÇAY A., GÜRBÜZ Ö., DEMİRÖRS O.
Ulusal Yazılım Muhendisligi Sempozyumu (UYMS) 2014, Güzelyurt, Cyprus (Kktc), 8 - 10 September 2014
- XI. **Türkiye deki Yazılım Test Uygulamaları Anketi**
GAROUSİ V., COŞKUNÇAY A., BETİN CAN A., DEMİRÖRS O.
Ulusal Yazılım Muhendisligi Sempozyumu (UYMS) 2013, İzmir, Turkey, 26 September 2013
- XII. **Kamuda İş Süreçleri Modelleme Gereği ve Yararları**
AYSOLMAZ B., COŞKUNÇAY A., DEMİRÖRS O., Yıldız A.
Ulusal Yazılım Muhendisligi Sempozyumu (UYMS) 2011, Turkey, 26 - 28 September 2011
- XIII. **Eşzamanlı İş Süreci Modelleme ve Gereksinim Analizi için bir Yaklaşım**
COŞKUNÇAY A., AYSOLMAZ B., DEMİRÖRS O., BİLEN Ö., DOĞAN İ.

Yazılım Kalitesi ve Yazılım Geliştirme Araçları Sempozyumu (YKGS), İstanbul, Turkey, 3 - 04 December 2010

XIV. **Bridging The Gap Between Business Process Modeling And Software Requirements Analysis A Case Study**

COŞKUNÇAY A., AYSOLMAZ B., DEMİRÖRS O., BİLEN Ö., DOĞAN İ.

Mediterranean Conference on Information Systems (MCIS), Tel-Aviv-Yafo, Israel, 12 - 14 September 2010

Supported Projects

2023 - Continues	Terapötik Dokunmatik Cihazının Prototipinin Oluşturulması ve Etkinliğinin Test Edilmesi, Project Supported by Higher Education Institutions
2021 - Continues	Dijital EKG Cihazı, Project Supported by Higher Education Institutions
2022 - 2023	16. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS 2022), Project Supported by Higher Education Institutions
2019 - 2020	Formula Student Yarışması İçin Formula Aracı Üretilmesi Geliştirilmesi ve Sonraki Yarışmalar için Alt Yapının Oluşturulması, Project Supported by Higher Education Institutions

Tasks In Event Organizations

27 Şubat 2023	Özyer B., Coşkunçay A., 16. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'22), Scientific Congress, Erzurum, Turkey
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Scientific Research / Working Group Memberships

2017 - Continues	Hybrid dEveLopmENt Approaches in software systems development, https://helenastudy.wordpress.com/ , Turkey
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Metrics

Publication: 28
Citation (WoS): 131
Citation (Scopus): 192
H-Index (WoS): 5
H-Index (Scopus): 6

Entrepreneurship Activities

1998 - Continues	Anonymous, BİLGİ GRUBU YAZILIM ARAŞTIRMA EĞİTİM VE DANIŞMANLIK ANONİM ŞİRKETİ, 11 November 1998, Co-Founder
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Non Academic Experience

2018 - 2020	Technology Development Zone, ATA TEKNOKENT
2016 - 2018	Bilgi Grubu Ltd
2009 - 2018	Business Establishment Private, Bilgi Grubu Ltd.