

## Asst. Prof. Yunus Emre SELÇUK

### Personal Information

**Office Phone:** [+90 212 383 5749](tel:+902123835749)

**Fax Phone:** [+90 212 383 5732](tel:+902123835732)

**Web:** <https://avesis.yildiz.edu.tr/yselcuk>

**Address:** Yıldız Teknik Üniversitesi Elektrik-Elektronik Fakültesi Bilgisayar Mühendisliği Bölümü Davutpaşa Kampüsü 34220  
Esenler - İstanbul Oda No: D129

### Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Turkey 2000 - 2006

Postgraduate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Bilgisayar Mühendisliği,  
Turkey 1997 - 2000

Undergraduate, Yıldız Teknik Üniversitesi, Mühendislik Fakültesi, Bilgisayar Bilimleri Mühendisliği, Turkey 1993 - 1997

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Quality Management, ISO 9001:2015 Kalite Yönetim Sistemi İç Denetçi Eğitimi, Smartek Eğitim Danışmanlık, 2018

IT, Building Applications with Microservices, Docker and SpringBoot, Eteration, 2017

### Dissertations

Doctorate, Nesneye Yönelik Programlamaya Rol Desteğinin Kazandırılması, İstanbul Teknik Üniversitesi, Fen Bilimleri  
Enstitüsü, Bilgisayar Mühendisliği Bölümü, 2006

Postgraduate, Bir Dağıtılmış Ortak Bellek Sisteminin Gerçeklenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü,  
Bilgisayar Mühendisliği Bölümü, 2000

### Research Areas

Computer Sciences, Software, Software Engineering, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Yıldız Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2018 -  
Continues

Assistant Professor, Yıldız Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2007 - 2018

## Academic and Administrative Experience

Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fak., Bilgisayar Müh. Böl., 2010 - Continues

Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fak., Bilgisayar Müh. Böl., 2008 - 2011

## Courses

Nesneye Dayalı Kavramlar, Undergraduate, 2017 - 2018

Nesneye Dayalı Kavramlar ve Programlama, Postgraduate, 2017 - 2018

Nesneye Dayalı Tasarım ve Modelleme, Postgraduate, 2016 - 2017

Yazılım Mühendisliği Temelleri, Postgraduate, 2016 - 2017

Yazılı ve Sözlü Sunum Becerileri, Undergraduate, 2016 - 2017

Yazılım Mühendisliği, Undergraduate, 2016 - 2017

Nesneye Dayalı Programlama, Undergraduate, 2016 - 2017

Bilgisayar Bilimlerine Giriş 1, Undergraduate, 2015 - 2016

## Advising Theses

SELÇUK Y. E. , Bulut Ortamında Kullanıcı Verilerini Yazma ve Okuma Amaçlı Yük Dengeleme Yaklaşımları ve Bir Çözüm Önerisi, Postgraduate, N.Kılıç(Student), 2018

SELÇUK Y. E. , Automated and Metric-Based Detection of Code Smells and Antipatterns, Postgraduate, S.Raad(Student), 2018

SELÇUK Y. E. , Automatic Detection of Code Causing Negative Effects on Software Quality, Postgraduate, B.Mohammed(Student), 2017

SELÇUK Y. E. , Yazılım Projelerinde Kaliteyi Düşüren Kodların Bulunması, Postgraduate, S.Tanış(Student), 2016

SELÇUK Y. E. , Nesne Yönelimli Yazılımlarda Karşıt Kalıpların Belirlenmesi, Postgraduate, T.Aras(Student), 2016

SELÇUK Y. E. , Yazılım Projelerinde Çaba Kestirimi İçin Yeni Bir Yaklaşım, Postgraduate, U.Kemal(Student), 2015

SELÇUK Y. E. , Rol Modellerinde Bağlam Kullanımı, Postgraduate, M.Pekmezci(Student), 2012

SELÇUK Y. E. , OSGI'da Uygulama Modeli Tanımlaması, Postgraduate, İ.Rıza(Student), 2011

SELÇUK Y. E. , Rol Modellerinde Kural Motorlarının Kullanılması, Postgraduate, Ö.Güler(Student), 2011

SELÇUK Y. E. , Ontolojilerin Otomatik Olarak Oluşturulması ve Birleştirilmesi, Postgraduate, A.Alperen(Student), 2011

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

- I. **Role models-implementation-based approaches to using roles**  
SELÇUK Y. E. , Erdogan N.  
SOFTWARE-PRACTICE & EXPERIENCE, vol.41, no.1, pp.1-22, 2011 (Journal Indexed in SCI)
- II. **A role model for description of agent behavior and coordination**  
SELÇUK Y. E. , Erdoğan N.  
ENGINEERING SOCIETIES IN THE AGENTS WORLD VI, vol.3963, pp.29-48, 2006 (Journal Indexed in SCI)
- III. **A distributed execution environment for shared Java objects**  
Erdogan N., Selcuk Y., Sahingoz O.  
INFORMATION AND SOFTWARE TECHNOLOGY, vol.46, no.7, pp.445-455, 2004 (Journal Indexed in SCI)
- IV. **JAWIRO: enhancing Java with roles**  
SELÇUK Y. E. , Erdoğan N.  
COMPUTER AND INFORMATION SCIENCES - ISCIS 2004, PROCEEDINGS, vol.3280, pp.927-934, 2004 (Journal Indexed in SCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Automation of RESTful Services Using Reverse Engineering and Code Generation**  
Selçuk Y. E.  
6th Int'l Symp on Engineering, Artificial Intelligence and Applications (ISEAIA 2019), Girne, Cyprus (Kkct), 6 - 08 March 2019, pp.43-49
- II. **Utilization of Open Distributed Tracing Standards for Exploratory Testing and Visualization of Microservices**  
Selçuk Y. E.  
6th Int'l Symp on Engineering, Artificial Intelligence and Applications (ISEAIA 2019), Girne, Cyprus (Kkct), 6 - 08 March 2019, pp.35-42
- III. **Detection of the Brain Class Code Smell Through Software Metrics**  
Selçuk Y. E.  
6th Int'l. Symp. on Engineering, Artificial Intelligence and Applications (ISEAIA 2019), Girne, Cyprus (Kkct), 6 - 08 March 2019, pp.26-34
- IV. **Metric Based Detection of Refused Bequest Code Smell**  
SELÇUK Y. E. , Merzah B. M.  
Proc. 9th Int'l. Conf. on Computational Intelligence and Communication Networks (CICN 2017), Girne, Cyprus (Kkct), 16 September 2017, pp.53-57
- V. **Policy enforcement upon software based on microservice architecture**  
Aşık T., SELÇUK Y. E.  
Software Engineering Research, Management and Applications (SERA), 2017 IEEE 15th International Conference on, Londra, United Kingdom, 07 June 2017, pp.283-287
- VI. **An automated code smell and anti-pattern detection approach**  
Velioğlu S., SELÇUK Y. E.  
Software Engineering Research, Management and Applications (SERA), 2017 IEEE 15th International Conference on, Londra, United Kingdom, 07 June 2017, pp.271-275
- VII. **An Investigation of Code Cycles and Poltergeist Anti-pattern**  
Al-Rubaye S. R. A. , SELÇUK Y. E.  
8th IEEE International Conference on Software Engineering and Service Science (ICSESS), Beijing, China, 24 - 26 November 2017, pp.139-140
- VIII. **Metric and Rule Based Automated Detection of Antipatterns in Object-Oriented Software Systems**  
ARAS M. T. , SELÇUK Y. E.  
7th International Conference on Computer Science and Information Technology (CSIT), Amman, Jordan, 13 - 14 July 2016
- IX. **Form Tabanlı Uygulamalar İçin Çaba Kestirimi**  
Selçuk Y. E.  
IX. Ulusal Yazılım Müh. Semp. (UYMS 2015), İzmir, Turkey, 9 - 11 September 2015, pp.812-821
- X. **Ontolojilerin Otomatik Olarak Eşleştirilmesi**  
SELÇUK Y. E.  
FEEB 2011 Fırat Üniv. Elektrik-Elektronik Bilgisayar Semp., 01 October 2011
- XI. **Nesneye Yönelik Sistemler İçin Bir Uyum Ölçütü Önerisi: COMIAS**  
SELÇUK Y. E. , Kalpsız O.  
UYMS 2009 IV. Ulusal Yazılım Müh. Semp., 01 October 2009
- XII. **A Cohesion Metric Proposal for Object-Oriented Systems: COMIAS**  
Selçuk Y. E. , Kalpsız O., Ertemel H. Ö.  
13th WSEAS Intl. Conf. on Computers, Rodos, Greece, 22 - 25 July 2009, pp.575-580

## Supported Projects

Selçuk Y. E. , Project Supported by Higher Education Institutions, Improving Quality Metrics for Object Oriented Software, 2008 - 2010

## Scientific Refereeing

6th Int'l. Conf. on Control Engineering & Information Technology (CEIT 2018), Other journals, October 2018  
Ulusal Yazılım Mühendisliği Sempozyumu 2018, Other Journals, September 2018  
Turkish Journal of Electrical Engineering & Computer Sciences, National Scientific Refreed Journal, March 2018  
Turkish Journal of Electrical Engineering & Computer Sciences, National Scientific Refreed Journal, January 2018  
Ulusal Yazılım Mühendisliği Sempozyumu 2017, Other Journals, November 2017  
Turkish Journal of Electrical Engineering & Computer Sciences, National Scientific Refreed Journal, October 2017  
Gazi University Journal of Science, National Scientific Refreed Journal, January 2017  
Ulusal Yazılım Mühendisliği Sempozyumu 2016, Other Journals, October 2016  
Gazi University Journal of Science, National Scientific Refreed Journal, May 2016  
Ulusal Yazılım Mühendisliği Sempozyumu 2015, National Scientific Refreed Journal, June 2015  
Gazi University Journal of Science, National Scientific Refreed Journal, January 2015  
Gazi University Journal of Science, National Scientific Refreed Journal, May 2014  
UYMS 2014: Ulusal Yazılım Mühendisliği Sempozyumu, National Scientific Refreed Journal, January 2014  
ELECO 2014 Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, National Scientific Refreed Journal, January 2014  
UYMS 2013: Ulusal Yazılım Mühendisliği Sempozyumu, National Scientific Refreed Journal, August 2013  
ISCIM 2013: 2nd International Symposium on Computing in Informatics and Mathematics, SCI Journal, July 2013  
TJEECS: Turkish Journal of Electrical Engineering & Computer Sciences, National Scientific Refreed Journal, December 2012  
Turkish Journal of Electrical Engineering & Computer Sciences, National Scientific Refreed Journal, December 2012  
ELECO 2012: Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, National Scientific Refreed Journal, November 2012  
INISTA 2012: Innovations in Intelligent Systems and Applications, SCI Journal, July 2012  
Turkish Journal of Electrical Engineering & Computer Sciences, National Scientific Refreed Journal, April 2012  
UYMS 2012: Ulusal Yazılım Mühendisliği Sempozyumu, National Scientific Refreed Journal, April 2012  
UYMS 2011: Ulusal Yazılım Mühendisliği Sempozyumu, National Scientific Refreed Journal, August 2011  
Gazi University Journal of Science, National Scientific Refreed Journal, April 2011  
YKGS 2010: 2nci Yazılım Kalitesi ve Yazılım Geliştirme Araçları Sempozyumu, National Scientific Refreed Journal, December 2010

## Citations

Total Citations (WOS):7

h-index (WOS):2