

## Assoc. Prof. Tolga Ovatman

### Personal Information

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### Biography

Born in 1981 at Bursa, Tolga Ovatman graduated from Bursa Anatolian High School in 1999. He completed his undergraduate education in Hacettepe University Computer Engineering Department in 2003 and moved to İstanbul to continue his graduate education at Istanbul Technical University department of Computer Engineering. After receiving his MSc degree he continued his PhD education at the same department and started working on model based software parallelization for multicore systems under supervision of Dr.Feza Buzluca. During his PhD study he has worked on formal methods and model checking as a visiting researcher in Denmark Technical University and studied parallellizing class diagrams in US Missouri University of Science and Technology. In 2011 he has delivered his dissertation and started working as a lecturer in İTÜ Faculty of Computer and Informatics. He was later recruited as an assistant professor in the same faculty on April 2012. He was awarded with Associate Professor Degree by YÖK on December 2017.

### Education Information

Doctorate, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2005 - 2011

Post Graduate, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2003 - 2005

Under Graduate, Hacettepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Bilimleri Mühendisliği Bölümü, Turkey 1999 - 2003

### Foreign Languages

English

### Dissertations

Doctorate, Model based parallelization of object oriented software for multicore systems, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2011

Post Graduate, A real-time optical character recognition system, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2005

### Research Areas

Technical Sciences, Computer Sciences, algorithms, Distributed Systems, Parallel Algorithms, Theoretical Computer Science, Formal Methods, Database and Data Structures, Data Structures, Software, Software Engineering

## Academic Titles / Tasks

Assistant Professor, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2012 - Continues

Research Assistant, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2004 - 2012

Research Assistant, University Of Missouri-Rolla, Faculty Of Science And Technology, Computer Science, 2008 - 2009

Research Assistant, Danmarks Tekniske Universitet (Technical University Of Denmark), Informatics And Mathematical Modeling, Informatics And Mathematical Modeling, 2006 - 2007

## Professional Experience

Deputy Head of Department, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2016 - Continues

## Courses

Formal Languages and Automata, Under Graduate, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017

Discrete Mathematics, Under Graduate, 2011 - 2012, 2012 - 2013, 2015 - 2016, 2016 - 2017

Object Oriented Concurrent Programming, Post Graduate, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017

Yazılım Kalitesi, Post Graduate, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017

Veri Yapıları ve Algoritmalar, Post Graduate, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017

Structured Programming, Post Graduate, 2012 - 2013, 2014 - 2015, 2016 - 2017

Operating Systems, Under Graduate, 2014 - 2015, 2015 - 2016, 2016 - 2017

Software Engineering, Under Graduate, 2014 - 2015, 2015 - 2016, 2016 - 2017

Model Checking For Software Systems, Doctorate, 2015 - 2016, 2016 - 2017

WEB-Design and Management Tools, Under Graduate, 2013 - 2014, 2014 - 2015

Structured Programming, Post Graduate, 2015 - 2016

Model Checking For Software Systems, Post Graduate, 2012 - 2013, 2013 - 2014, 2014 - 2015

Data Structures and Algorithms, Under Graduate, 2013 - 2014

Data Structures and Algorithms, Under Graduate, 2013 - 2014

Logic Circuits Laboratory, Under Graduate, 2011 - 2012, 2012 - 2013

Introduction to Information Systems and Computation in Engineering, Under Graduate, 2013 - 2014

Structured Programming, Post Graduate, 2013 - 2014

Data Structures, Under Graduate, 2012 - 2013

Data Structures and Algorithms, Under Graduate, 2012 - 2013

Programming I, Under Graduate, 2012 - 2013

Mikroişlemci Uygulamaları Lab, Under Graduate, 2011 - 2012

Veri Yapıları, Under Graduate, 2011 - 2012

Introduction to Scientific and Engineering Computation (C), Under Graduate, 2011 - 2012

## Jury Memberships

Administrative Staff Examination, İTÜ BİDB Sözleşmeli Bilişim Personeli Snavı, İstanbul Teknik Üniversitesi, August, 2017

Doctorate, Mohanad Dawoud , İstanbul Teknik Üniversitesi, July, 2017

Post Graduate, Serkan Akdemir , İstanbul Teknik Üniversitesi, June, 2017

Post Graduate, Özge Ataseven , İstanbul Teknik Üniversitesi, June, 2017

Doctoral Examination, Yahya Hassanzadeh-Nazarabadi, Koç Üniversitesi, November, 2016  
Post Graduate, Sevilay Tanış, Yıldız Teknik Üniversitesi, July, 2016  
Post Graduate, Mehmet Taha Aras, Yıldız Teknik Üniversitesi, July, 2016  
Administrative Staff Examination, İTÜ BİDB Sözleşmeli Bilişim Personeli Snavı, İstanbul Teknik Üniversitesi, January, 2016  
Post Graduate, Çiğdem Albuz Savunması, İstanbul Teknik Üniversitesi, January, 2015  
Post Graduate, Özdemir Kavak, İstanbul Teknik Üniversitesi, January, 2015  
Post Graduate, Mücahit Altıntaş, İstanbul Teknik Üniversitesi, May, 2014  
Post Graduate, Metehan Patacı, İstanbul Teknik Üniversitesi, May, 2014  
Post Graduate, Atakan Aral, İstanbul Teknik Üniversitesi, June, 2012

## Supported Projects

Ovatman T., Project Supported by Higher Education Institutions, Uygulama Yerleştrime Sezgisel Yöntemler Kullanılarak Bulut Ortamlarında Kaynak Kullanımının İyileştirilmesi, 2014 - 2018  
Ovatman T., Project Supported by Higher Education Institutions, Bilişsel Radyo Ağlarında Kanal Kullanımının Zamanlı Otomatlarla Yazılım Tabanlı Eniyilemesi, 2012 - 2018  
Ovatman T., Project Supported by Higher Education Institutions, Bulut Sistemlerinde Kaynak Atama Probleminin Modellenmesi ve İyileştirilmesi, 2015 - 2016

## Activities in Scientific Journals

KSII Transacions on Internet and Informaion Systems, Publication Committee Member, 2018 - Continues  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, Publication Committee Member, 2017 - Continues  
IEEE Transactions on Network and Service Management, Publication Committee Member, 2017 - Continues  
Hindawi Scientific Programming, Publication Committee Member, 2016 - Continues  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, Assistant Editor, 2016 - 2016  
IEEE Cloud, Publication Committee Member, 2015 - 2015  
Journal of Systems and Software, Publication Committee Member, 2011 - 2011

## Memberships / Tasks in Scientific Organizations

Member, 2017 - Continues

Member, 2017 - Continues

## Scientific Consultations

Innova A.Ş., Scientific Consultancy, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2018 - Continues  
Softtech A.Ş., Scientific Consultancy, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2017 - Continues  
ICRON Technologies, Scientific Consultancy, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2017 - Continues  
ABE Teknoloji, Scientific Consultancy, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2015 - 2017  
Innova A.Ş., Scientific Consultancy, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2015 - 2016

Model Bilişim Hizmetleri, Scientific Consultancy, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2014 - 2015

Veripark, Scientific Consultancy, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2014 - 2015

Simternet, Scientific Consultancy, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2013 - 2014

## **Scientific Research / Working Group Memberships**

Yazılım Modelleme ve Analizi, İSTANBUL TEKNİK ÜNİVERSİTESİ, Turkey, smart.cs.itu.edu.tr, 2011 - Continues

## **Invited Congress and Symposium Activities**

ELECO, Attendee, Bursa, Turkey, 2015

The 4th International Conference on Cloud Computing and Services Science, CLOSER 2014, Attendee, Barcelona, Spain, 2014

1st IEEE International Workshop on Ad Hoc Networking with MIMO and Cognitive Radio, GLOBECOM 2012, Attendee, California, United States Of America, 2012

6. ULUSAL YAZILIM MÜHENDİSLİĞİ SEMPOZYUMU, UYMS 2012, Attendee, Ankara, Turkey, 2012

45th Annual Simulation Symposium 2012 Spring Simulation Multiconference, Attendee, Florida, United States Of America, 2012

14th Euromicro Conference on Digital System Design Architectures, Methods and Tools, Attendee, Oulu, Finland, 2011

19th International Conference on Software Engineering and Data Engineering, Attendee, California, United States Of America, 2010

International Conference on Computational Intelligence and Software Engineering, Attendee, Wuhan, China, 2009

## **Citations**

Total Citations (WOS):65

h-index (WOS):4