

## **Asst. Prof. SANIYE TUĞBA TOKEL**

### **Personal Information**

**Email:** stugba@metu.edu.tr

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### **Education Information**

Doctorate, Texas A&M University, United States Of America 2003 - 2008

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Bilgisayar Ve Öğretim Teknolojileri Eğitimi (Dr), Turkey 2001 - 2003

Undergraduate, Middle East Technical University, Faculty Of Education, Department Of Computer Education And Instructional Technology, Turkey 1995 - 2001

### **Foreign Languages**

English, C1 Advanced

### **Dissertations**

Doctorate, Scaffolding Middle School Students' Content Knowledge and Ill-Structured Problem Solving in a Problem-Based Hypermedia Learning Environment, Texas A&M University, 2008

Postgraduate, Communication Behaviors and Trust in Collaborative Online Teams, Middle East Technical University, Graduate School of Natural and Applied Sciences, Bilgisayar Ve Öğretim Teknolojileri Eğitimi (Dr), 2003

### **Academic Titles / Tasks**

Assistant Professor, Middle East Technical University, Faculty Of Education, Department Of Computer Education And Instructional Technology, 2018 - Continues

Associate Professor, Middle East Technical University, Faculty Of Education, Department Of Computer Education And Instructional Technology, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty Of Education, Department Of Computer Education And Instructional Technology, 2008 - 2018

### **Academic and Administrative Experience**

Vice Dean, Middle East Technical University, Faculty of Education, Department of Computer Education and Instructional Technology, 2021 - Continues

Deputy Head of Department, 2011 - 2014

### **Advising Theses**

TOKEL S. T. , Investigating the use of virtual worlds to teach basics of programming to children: A multiple case study,

Doctorate, A.BATTAL(Student), 2018

TOKEL S. T. , The Effect of flipped classroom as a teaching strategy on undergraduate students' self-efficacy, engagement and attitude in a computer programming course, Doctorate, C.Yurdagül(Student), 2018

TOKEL S. T. , The effect of flipped classroom as a teaching strategy on undergraduate students' self-efficacy, engagement and attitude in a computer programming course, Doctorate, C.YURDAGÜL(Student), 2018

TOKEL S. T. , Exploring the effectiveness of a mobile writing application for supporting handwriting acquisition of students with dysgraphia, Doctorate, S.HOPCAN(Student), 2017

TOKEL S. T. , Facilitating english as a foreign language learners' vocabulary learning, task completion and contextual vocabulary exploration processes in a mobile supported situated learning environment, Doctorate, Ç.UZ(Student), 2016

TOKEL S. T. , Exploring the use of 3D virtual worlds for psychoeducational groups: A multiple case study, Doctorate, A.GÜL(Student), 2016

TOKEL S. T. , Supporting students' scientific argumentation in technology-enhanced learning environments: Distribution of scaffolds, Doctorate, H.HAVVA(Student), 2013

TOKEL S. T. , Supporting students' scientific argumentation in technology-enhanced learning environments : distribution of scaffolds, Doctorate, H.Havva(Student), 2013

TOKEL S. T. , Effects of way finding affordances on usability of virtual world environments in terms of users' satisfaction, performance, and mental workload: Examination by eye-tracking and fnir device, Postgraduate, Y.CANSIZ(Student), 2012

TOKEL S. T. , Students' experiences and perceptions of anxiety, motivation, and self-confidence in speaking english during task-based language learning activities in second life: The case of METU, Postgraduate, T.KAMALI(Student), 2012

YILDIRIM İ. S. , TOKEL S. T. , Effects of scaffolding strategies embedded within web-based peer evaluation system on pre-service teachers' reflective thinking and self-efficacy, Doctorate, İ.YILDIZ(Student), 2012

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

- I. **Exploring the effectiveness of a mobile writing application for supporting handwriting acquisition of students with dysgraphia**  
HOPCAN S., TOKEL S. T.  
EDUCATION AND INFORMATION TECHNOLOGIES, vol.26, no.4, pp.3967-4002, 2021 (Journal Indexed in SSCI)
- II. **Facilitating Contextual Vocabulary Learning in a Mobile-Supported Situated Learning Environment**  
Bilgin C. U. , TOKEL S. T.  
JOURNAL OF EDUCATIONAL COMPUTING RESEARCH, vol.57, no.4, pp.930-953, 2019 (Journal Indexed in SSCI)
- III. **Acceptance of virtual worlds as learning space**  
TOKEL S. T. , Isler V.  
INNOVATIONS IN EDUCATION AND TEACHING INTERNATIONAL, vol.52, no.3, pp.254-264, 2015 (Journal Indexed in SSCI)
- IV. **Supporting problem-solving performance in a hypermedia learning environment: The role of students' prior knowledge and metacognitive skills**  
TOKEL S. T. , Pedersen S.  
COMPUTERS IN HUMAN BEHAVIOR, vol.28, no.4, pp.1162-1169, 2012 (Journal Indexed in SSCI)
- V. **Place presence, social presence, co-presence, and satisfaction in virtual worlds**  
TOKEL S. T.  
COMPUTERS & EDUCATION, vol.58, no.1, pp.154-161, 2012 (Journal Indexed in SCI)
- VI. **Scaffolding middle school students' content knowledge and ill-structured problem solving in a problem-based hypermedia learning environment**  
Bulu S. T. , Pedersen S.  
ETR&D-EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT, vol.58, no.5, pp.507-529, 2010 (Journal Indexed in SSCI)
- VII. **Communication behaviors and trust in collaborative online teams**  
Bulu S. T. , YILDIRIM Z.

## Articles Published in Other Journals

- I. **The Effects of Mathematics on Programming Skills and its Retention: An Experimental Study**  
Altın R., Tokel S. T. , Delialioğlu Ö.  
Journal of Computers in Mathematics and Science Teaching, vol.40, no.3, pp.183-199, 2021 (Refereed Journals of Other Institutions)
- II. **Investigating the factors affecting students' satisfaction in a programming course designed in 3d virtual worlds 3b sanal dünyalarda tasarlanan bir programlama dersinde öğrencilerin memnuniyetine etki eden faktörlerin incelenmesi**  
Battal A., Tuğba Tokel S. T.  
Turkish Online Journal of Qualitative Inquiry, vol.11, no.2, pp.218-246, 2020 (Refereed Journals of Other Institutions)
- III. **Distributed Scaffolding: Synergy in Technology-Enhanced Learning Environments**  
Ustunel H. H. , TOKEL S. T.  
TECHNOLOGY KNOWLEDGE AND LEARNING, vol.23, no.1, pp.129-160, 2018 (Journal Indexed in ESCI)
- IV. **Anxiety, Motivation, and Self-Confidence in Speaking English During Task Based Activities in Second Life - Second Life Ortamında Görev Temelli Dil Eğitimi Etkinliklerinde Öğrencilerin İngilizce Konuşmaya Yönelik Endişe, Güdülenme ve Özgüvenleri**  
KAMALI ARSLANTAŞ T., TOKEL S. T.  
Kastamonu Üniversitesi Kastamonu Eğitim Dergisi, vol.26, pp.287-296, 2018 (Other Refereed National Journals)
- V. **Teknoloji ile zenginleştirilmiş öğrenme ortamlarında öğrencilerin bilimsel argümantasyonuna rehberli öğrenme desteği sağlanması**  
ÜSTÜNEL H. H. , TOKEL S. T.  
Ömer Halisdemir Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.10, pp.122-152, 2017 (Other Refereed National Journals)
- VI. **Exploring Internet addiction academic procrastination and general procrastination among Pre Service ICT teachers**  
Tokel S. T.  
Mevlana International Journal of Education, vol.4, no.1, pp.189-201, 2014 (National Refreed University Journal)
- VII. **Three Dimensional Virtual Worlds Research Trends and Future Directions**  
TOKEL S. T. , CEVİZCİ KARATAŞ E.  
Mersin Üniversitesi Eğitim Fakültesi Dergisi, vol.10, pp.1-12, 2014 (Other Refereed National Journals)
- VIII. **Türkiye'deki ebeveynlerin çocuklarının İnternet ve sosyal paylaşım siteleri kullanımına yönelik bilgi seviyeleri ve algıları**  
Tokel S. T.  
Mersin Üniversitesi Eğitim Fakültesi Dergisi, vol.9, no.1, pp.225-236, 2013 (National Refreed University Journal)

## Books & Book Chapters

- I. **Design and Development of a Mobile Writing Application for Students With Dysgraphia**  
Hopcan S., Tokel S. T. , Karasu N., Aykut Ç.  
in: Mobile Technologies in Educational Organizations, Alona Forkosh Baruch, Hagit Meishar Tal, Editor, IGI-Global, Pennsylvania, pp.233-262, 2019
- II. **3 Boyutlu Sanal Dünyaların Eğitimde Kullanımı**  
GÖKTAŞ Y., TOPU F. B. , ÇOBAN M., KARAKUŞ YILMAZ T., BAYDAŞ Ö., YILMAZ R. M. , REİSOĞLU İ., TOKEL S. T. , KOÇAK Ö.  
Pegem Akademi, Ankara, 2017

III. **3B Sanal Dünyalar ve Kullanım Alanları**

TOKEL S. T. , TOPU F. B.

in: 3B Sanal Dünyaların Eğitimde Kullanımı, Göktaş Yüksel, Editor, Pegem, pp.1-24, 2017

IV. **Üç Boyutlu Sanal Dünyalar**

Tokel S. T.

in: Öğretim Teknolojilerinin Temelleri Teoriler Araştırmalar Eğilimler, Çağltay,K.,Göktaş,Y., Editor, Pegem A Yayıncılık, Ankara, pp.825-845, 2016

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **The use of pair programming in education: A systematic Review**  
Tunga Y., Tokel S. T.  
EDUCCON 2018 Educational Conference, Ankara, Turkey, 27 - 28 September 2018, pp.19-29
- II. **Engaging with the Scenario: Affect and Facial Patterns from a Scenario-Based Intelligent Tutoring System**  
Nye B., Karumbaiah S., TOKEL S. T. , Mark C., Giota S., Auerbach D., Kallirroï G.  
19th International Conference on Artificial Intelligence in Education, 23 - 30 June 2018
- III. **Özel Eğitim Öğretmenlerinin Disgrafi Yaşayan Öğrenciler İçin Geliştirilen Mobil Yazma Uygulaması Hakkındaki Görüşleri**  
HOPCAN S., TOKEL S. T.  
International Computer Instructional Technologies Symposium, İzmir, Turkey, 2 - 04 May 2018
- IV. **Virtual Standardized Patients for Facilitating Conversational Medical Interview**  
TOKEL S. T. , Bautista M., Talbot T., Leeds A.  
AECT 2017, 7 - 11 November 2017
- V. **Investigating the effects of using virtual worlds in introductory programming education on students' problem solving skills**  
BATTAL A., TOKEL S. T.  
IVth International Eurasian Educational Research Congress, Denizli, Turkey, 11 - 14 May 2017
- VI. **Implications of 3D Virtual Worlds for Counseling Services In Higher Education**  
GÜL A., AYDIN G., ÇAĞ P., TOKEL S. T.  
IVnd International Eurasian Educational Research Congress, 11 - 14 May 2017
- VII. **Analyzing Learner Affect in a Scenario-Based Intelligent Tutoring System**  
Nye B., Karumbaiah S., TOKEL S. T. , Core M. G. , Stratou G., Auerbach D., Georgila K.  
18th International Conference on Artificial Intelligence in Education (AIED), Wuhan, China, 28 June - 01 July 2017, vol.10331, pp.544-547
- VIII. **Analyzing Learner Affect in a Scenario-Based Intelligent Tutoring System**  
Nye B., Karumbaiah S., TOKEL S. T. , Core M. G. , Stratou G., Auerbach D., Kallirroï G.  
Artificial Intelligence in Education 2017 (AIED), 28 June - 02 July 2017, vol.10331, pp.544-547
- IX. **Design Report of Geography Island Project: Description of Environment and Instructional Elements**  
KEFELİ P., İLKHAN M., GÜLEÇ M., TOKEL S. T.  
ICITS 2016, Rize, Turkey, 16 - 18 May 2016, pp.387-396
- X. **Development of a Virtual Learning Environment Hittites Empire**  
KİLİS S., ALKIŞ Y., KADIRHAN Z., ÇETİNKAYA H. H. , ÖZGENEL Ç. F. , TOKEL S. T.  
5th European Immersive Education Summit (EiED 2015), 9 - 11 September 2015
- XI. **Comparing Two Open Source Virtual Worlds In Terms Of Educational Purposes: OpenSim And Open Wonderland**  
BATTAL A., TOKEL S. T.  
7th ICITS International Computer and Instructional Technologies Symposium, Turkey, 6 - 09 June 2013
- XII. **Üç Boyutlu Sanal Dünyalar: Eğitimciler İçin Yol Haritası**  
TOKEL S. T. , CEVİZCİ KARATAŞ E., GÜL A.

Akademik Bilişim 2013, Turkey, 23 - 25 January 2013

- XIII. **FOREIGN LANGUAGE EDUCATION IN VIRTUAL WORLDS: A REVIEW OF PERVASIVE STUDIES**  
TOKEL S. T. , Kamali T.  
4th International Conference on Education and New Learning Technologies (EDULEARN), Barcelona, Spain, 2 - 04 July 2012, pp.4349-4358
- XIV. **Effects of Way Finding Affordances on Usability of Virtual World Environments in Terms of Users' Satisfaction, Performance, and Mental Workload: Examination by Eye-Tracking and fNIR**  
CANSIZ Y., TOKEL S. T.  
Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2012, 26 - 29 June 2012, pp.1073-1079
- XV. **3D learning environment for "conscious individuals & livable environment for elementary students**  
KAMALI ARSLANTAŞ T., CEVİZCİ KARATAŞ E., Leymun C., TOKEL S. T.  
5th International Computer & Instructional Technologies Symposium, Turkey, 1 - 03 June 2011
- XVI. **Second Life ODTÜ Kampüsü**  
TOKEL S. T. , İŞLER V.  
Akademik Bilişim 2011, Turkey, 2 - 04 February 2011
- XVII. **Virtual Environments for Learning: The Design Model**  
TOKEL S. T. , PEDERSEN S.  
Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2007, 25 - 28 June 2007
- XVIII. **Teachers' beliefs underlying their assessment practices in a problem-based learning activity**  
TOKEL S. T. , Pedersen S.  
Proceedings of the World Conference on Educational Multimedia, Hypermedia and Telecommunications, 25 - 28 June 2004

## Supported Projects

TOKEL S. T. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

TOKEL S. T. , Project Supported by Higher Education Institutions, Second Life Sanal Ortamında Odtü. Ek Kampüsü Ve Böte Bölümü Geliştirilmesi Projesi, 2012 - 2012

TOKEL S. T. , Project Supported by Higher Education Institutions, Second Life Sanal Ortamında Odtü Ek Kampüsü Ve Böte Bölümü Geliştirilmesi Projesi, 2010 - 2010

## Memberships / Tasks in Scientific Organizations

TEMEG, Executive Board Member, 2020 - Continues, Turkey

## Citations

Total Citations (WOS):259

h-index (WOS):5