Res. Asst. Oğuz Orkun Doma

Personal Information

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Biography

Oğuz Orkun Doma is an architect who has earned his Ph.D. in the Architectural Design Computing program at Istanbul Technical University.

Obtained a Bachelor's degree in Architecture in 2012 and a Master's degree in Architecture in 2014 from Bahçeşehir University. Granted a scholarship from Bahçeşehir University in 2013 to attend the M.Arch. program at Virginia Tech WAAC for one semester as a non-degree seeking visiting student. Worked as a Teaching Assistant at Bahçeşehir University Faculty of Architecture from February 2012 to August 2014. Worked as a Research Assistant at ITU Faculty of Architecture from September 2014 to July 2021.

Professional experience includes architectural design, virtual reality, game design, level design, project management, graphic design and visualization, and teaching in higher education. Academic research areas include architectural design computation, virtual and augmented reality, computer graphics and video games, design cognition, and brain-computer interfaces.

Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mimari Tasarımda Bilişim (Dr), Turkey 2014 - 2023
Postgraduate, Bahcesehir University, Institute Of Science, Mimarlık (Yl) (Tezli), Turkey 2012 - 2014
Undergraduate, Bahcesehir University, Faculty Of Architecture And Design, Department Of Architecture, Turkey 2007 - 2012

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, DREAMSCAPE: Use of Virtual Reality in Architectural Design & Education, Istanbul Technical University, Lisansüstü Eğitim Enstitüsü, Architectural Design Computing, 2023
Postgraduate, Architectural Experience in Video Games: Spatial, Temporal & Narrative, Bahcesehir University, Institute Of Science, Architecture (M.A.), 2014

Research Areas

Art and Design, Simulation and Modelling, Computer Graphics, Augmented Reality, Virtual Reality, Human Computer Interaction, Architecture, Architectural Design, Engineering and Technology

Academic Titles / Tasks

Lecturer, Bahcesehir University, Faculty Of Communıcatıon, Department Of Dıgıtal Game Desıgn, 2023 - Continues
Visiting Lecturer, Istanbul Technical University, Lisansüstü Eğitim Enstitüsü, Game and Interaction Technologies, 2023 - Continues
Research Assistant, Istanbul Technical University, Mimarlık, Mimarlık, 2014 - 2021
Research Assistant, Bahcesehir University, Faculty Of Archıtecture And Desıgn, Department Of Archıtecture, 2012 - 2014

Academic and Administrative Experience

Araştırma Görevlisi Fakülte Temsilcisi, Istanbul Technical University, Mimarlık, Mimarlık, 2017 - 2018
Araştırma Görevlisi Fakülte Temsilcisi, Istanbul Technical University, Mimarlık, Mimarlık, 2015 - 2016

Courses

Serious Games, Undergraduate, 2022 - 2023
Visualization in Virtual Reality, Postgraduate, 2022 - 2023

Designed Lessons

Doma O. O., Şener S. M., Visualization in Virtual Reality, Postgraduate, 2018 - 2019
Doma O. O., Şener S. M., Architectural Visualization in Virtual Reality, Undergraduate, 2016 - 2017

Taught Courses And Trainings

Doma O. O., Component-Based Living Units (LEGO Workshop), 2021 - 2021
Doma O. O., Bayat U., COP4454 - Introduction to Game Development with CRYENGINE, 2017 - 2018
Doma O. O., Özkan O., COOP4454 - Introduction to Game Development with CRYENGINE, 2016 - 2017
Doma O. O., Özkan O., Introduction to Level Design with CRYENGINE V, 2016 - 2016
Doma O. O., Özkan O., Video Games & Digital Narratives: A Quick Introduction, 2015 - 2015

Articles Published in Other Journals

I. **Procedural architectural settlement generator for container housing: A study on Marmara and Mediterranean Regions**
   Şen Bayram A. K., Torus B., Doma O. O., Şener S. M.
   ESTOA : REVISTA DE LA FACULTAD DE ARQUITECTURA Y URBANISMO DE LA UNIVERSIDAD DE CUENCA, vol.12, no.24, pp.161-173, 2023 (ESCI)
II. **An investigation of architectural design process in physical medium and VR**
   Doma O. O., Şener S. M.
   A/Z ITU Journal of the Faculty of Architecture, vol.19, no.3, pp.631-649, 2022 (Scopus)

III. **Dreamscape Bricks VR: An Experimental Virtual Reality Tool for Architectural Design**
Doma O. O., Şener S. M.
Interaction Design and Architecture(s), no.52, pp.234-258, 2022 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. **Using Modular Construction Brick-Based CAD in Online Design Education**
Doma O. O., Şener S. M.
CIVAE 2021 3rd Interdisciplinary and Virtual Conference on Arts in Education, Madrid, Spain, 14 - 15 June 2021,
pp.106-111

II. **Generative Systems in Design: A Container Settlement Generator**
Torus B., Şen Bayram A. K., Doma O. O., Şener S. M.
iaSU 2019 "Archi-Cultural Interactions through the Silkroad", Ulaanbaatar, Mongolia, 24 - 26 June 2019, pp.51-53

III. **bBox: A Framework for Container Settlements**
Torus B., Şen Bayram A. K., Doma O. O., Şener S. M.
The Paradigmatic City (IV): Transforming Cities, İstanbul, Turkey, 8 - 10 May 2019, pp.15-24

IV. **Beyin-Bilgisayar Arayüzüyle Sanal Gerçeklikte Dinamik Etkileşim**
Doma O. O., Karahan R.
10. Mimarlıkta Sayısal Tasarım Sempozyumu, İstanbul, Turkey, 27 - 28 June 2016, pp.290-299

V. **Video Oyunu Mekanlarında Mimari Deneyim: Mekansal, Zamansal, Anlatısal**
Doma O. O., Eyüce E. Ö.
8. Mimarlıkta Sayısal Tasarım Sempozyumu, İzmir, Turkey, 26 - 27 June 2014, pp.1-11

Episodes in the Encyclopedia

I. **Spatio-Temporal Narrative Framework for Architecture in Video Games**
Doma O. O.
Springer, London/Berlin , pp.1-9, 2018

II. **EEG as an Input for Virtual Reality**
Doma O. O.
Springer, London/Berlin , pp.1-4, 2018

Other Publications

I. **Gençlik Merkezleri Mimari Tasarım İlkeleri**
Çolakoğlu M. B., Doma O. O.
Technical Report, pp.1-30, 2015

Supported Projects

Şener S. M., Doma O. O., Güleç Özer D., Project Supported by Higher Education Institutions, DREAMSCAPE: Mimari
Tasarım ve Eğitiminde Sanal Gerçeklik Kullanımı, 2018 - 2023

Scientific Consultations

Crytek Istanbul, Scientific Consultancy, Istanbul Technical University, Mimarlık, Mimarlık, Turkey, 2016 - 2019

Tasks In Event Organizations

Doma O. O., International Children and Information Security Digital Games Workshop, Workshop Organization, Ankara, Turkey, Ekim 2021

Doma O. O., International Child and Information Safety Congress "Digital Games", Scientific Congress, Ankara, Turkey, Nisan 2018

Metrics

Publication: 11

Congress and Symposium Activities

Uluslararası Çocuk ve Bilgi Güvenliği Kongresi: Dijital Oyunlar, Invited Speaker, Ankara, Turkey, 2018

GETEK '17 - Technology and Innovative Thinking | Istanbul University IEEE Student Branch, Invited Speaker, İstanbul, Turkey, 2017

12th ILTEK Days | Yıldız Technical University IEEE Student Branch, Invited Speaker, İstanbul, Turkey, 2017

10. Mimarlıkta Sayısal Tasarım Sempozyumu, Attendee, İstanbul, Turkey, 2016

8. Mimarlıkta Sayısal Tasarım Sempozyumu, Attendee, İzmir, Turkey, 2014

Invited Talks

Digital Dreamscapes and Architectural Design in the Metaverse, Seminar, Metametrik | Çarşamba Buluşmaları #100, Turkey, July 2022

Design in the Metaverse: Productivity and Creativity in the Virtual Future of the Real World, Seminar, Piri Reis Üniversitesi, Turkey, May 2022

Towards Metaverse Architecture: Architectural Design and Experience in Digital Realities, Seminar, Kocaeli MITAB 2022 2nd Architecture and Design Meetings: Alternate Realities, Turkey, March 2022

Game and Space in Mixed Reality, Seminar, VRDays Europe | Immersive Tech Week Istanbul, Turkey, November 2021

As a Changing and Transforming Reality: Virtual Reality, Seminar, Arkitera, Turkey, October 2020

Scholarships

Virginia Tech WAAC & BAU Consortium - Visiting Graduate Student, University, 2013 - 2013

Awards

Doma O. O., Best Presentation Award, Mstas 2016 X. Mimarlıkta Sayısal Tasarım Sempozyumu, June 2016

Artistic Activity

Doma O. O., Sónar+D Istanbul 2023 | Dreamscape Bricks VR demonstration, Festival, April 2023

Doma O. O., IKSV 2014, The 2nd Istanbul Design Biennial, IAPS-CSBE Network | neoIstanbul Workshop, Workshop, October 2014

Representation and Promotion Activities

Institutional Promotion, Istanbul Technical University, Taşkışla Campus, Turkey, İstanbul, 2019 - 2019

Institutional Representation, ITU Faculty of Architecture, Turkey, İstanbul, 2015 - 2018

Institutional Representation, İTÜ Faculty of Architecture, Turkey, İstanbul, 2015 - 2018

Institutional Promotion, ITU Faculty of Architecture, Turkey, İstanbul, 2014 - 2015