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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAC-5719-2019

ScopusID: 57192439542

Yoksis Researcher ID: 31594

Education Information

Doctorate, Istanbul Technical University, Mimarlık, Turkey 2009 - 2013

Postgraduate, Architectural Association School of Architecture, Mimarlık, United Kingdom 2004 - 2006

Undergraduate, Istanbul Technical University, Mimarlık, Turkey 1999 - 2003

Research Areas

Performance Modelling and Evaluation, Numerical Algorithms, Computer Graphics, Building Design, Architectural Design, Building materials

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Mimarlık, Mimarlık, 2021 - Continues

Assistant Professor, Istanbul Technical University, Mimarlık, Mimarlık, 2020 - 2021

Assistant Professor, Ozyegin University, Faculty Of Architecture And Design, 2013 - 2020

Academic and Administrative Experience

Bölüm Kalite Komisyonu Üyesi, Istanbul Technical University, Mimarlık, Mimarlık, 2022 - Continues

Member of Programme Steering Committee, Istanbul Technical University, Fen Bilimleri Enstitüsü, Bilişim, 2021 - Continues

Deputy Head of Department, Istanbul Technical University, Mimarlık, Mimarlık, 2022 - 2023

Advising Theses

Yazıcı S., Strüktürel Tasarım Sistemlerine Dayalı Hesaplamalı Form Bulma Süreçleri , Postgraduate, H.Kadioğlu(Student), Continues

Yazıcı S., Digital Crafting driven by Performative Materials, Postgraduate, Z.Candar(Student), Continues

Jury Memberships

Doctoral Examination, Doctoral Examination, Orta Doğu Teknik Üniversitesi, December, 2020
Post Graduate, Post Graduate, Özyeğin Üniversitesi, May, 2020
Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, December, 2019
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, December, 2019
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, May, 2019
Award, British Council UK Alumni Awards, British Council, March, 2019
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Teknik Üniversitesi, September, 2018
Doctorate, Doctorate, İstanbul Teknik Üniversitesi, July, 2018
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2018
Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, May, 2018
Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, May, 2018
Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, May, 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **THE PERFORMANCE-BASED INTERLINKED MODEL (PBIM) IN ARCHITECTURAL DESIGN: EXCHANGING ENVIRONMENTAL, STRUCTURAL AND SPATIAL PARAMETERS IN THE EARLY DESIGN STAGE**
Yazıcı S.
METU JOURNAL OF THE FACULTY OF ARCHITECTURE, vol.38, no.1, pp.23-52, 2021 (AHCI)
- II. **Material-based computational design (MCD) in sustainable architecture**
Yazıcı S., Tanaçan L.
Journal of Building Engineering, vol.32, 2020 (SCI-Expanded)
- III. **Rule-based rationalization of form: learning by computational making**
Yazıcı S.
International Journal of Technology and Design Education, vol.30, pp.613-633, 2020 (SCI-Expanded)
- IV. **A study towards interdisciplinary research: a Material-based Integrated Computational Design Model (MICD-m) in architecture**
Yazıcı S., Tanaçan L.
ARCHITECTURAL SCIENCE REVIEW, vol.61, pp.68-82, 2018 (AHCI)

Articles Published in Other Journals

- I. **The Use of Smart Materials in Architecture: Nitinol-based Foldable Façade Systems**
Battal A., Yazıcı S.
Journal of Technology in Architecture, Design and Planning, vol.1, no.1, pp.1-9, 2023 (Peer-Reviewed Journal)
- II. **A Method for Decoding and Representing Time in Fourdimensional Spaces via Digital Game Environment**
Uyan B., Yazıcı S.
Journal of Computational Design, vol.4, no.1, pp.99-120, 2023 (Peer-Reviewed Journal)
- III. **Computational Design Informed by Natural Systems**
Yazıcı S.
Journal of Computational Design, vol.1, no.3, pp.1-16, 2020 (Peer-Reviewed Journal)
- IV. **Building in Extraterrestrial Environments: T-Brick Shell**
Yazıcı S.
JOURNAL OF ARCHITECTURAL ENGINEERING, vol.24, no.1, 2018 (ESCI)

- V. **A parametric landscape urbanism method: The search for an optimal solution**
Yazıcı S.
A/Z ITU Journal of the Faculty of Architecture, vol.13, no.3, pp.155-165, 2016 (Scopus)
- VI. **Computing through holistic systems design method: material formations workshop**
Yazıcı S.
Dearq Journal of Architecture, no.9, pp.90-101, 2011 (Peer-Reviewed Journal)
- VII. **Malzeme Zekâsı ile Mekânı Kurgulama**
Yazıcı S.
Mimarlıkta Malzeme, no.15, pp.53-63, 2010 (Peer-Reviewed Journal)
- VIII. **Yenilikçi Malzeme Sistemleri**
Yazıcı S.
Mimarlıkta Malzeme, no.14, pp.42-48, 2009 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Computational Design in Architecture, 15th National Symposium Proceedings**
Çağdaş G. (Editor), Özkar M. (Editor), Gül L. F. (Editor), Alaçam S. (Editor), Gürer E. (Editor), Yazıcı S. (Editor), Delikanlı B. (Editor), Altun S. (Editor), Çavuş Ö. (Editor), Kırdar G. (Editor)
İstanbul Teknik Üniversitesi Yayınları, İstanbul, 2021
- II. **Dijital Çağda Mimari Tasarıma İlişkin Fikri Hakların Korunması**
Yazıcı S.
in: Hukuk ve Sanat, Yener Ünver, Özlem Yenerer Çakmut, Editor, Seçkin Yayıncılık, Ankara, pp.733-743, 2019
- III. **IX. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu: Sürdürülebilir Sayısal Ekolojiler**
Yazıcı S. (Editor), Akoğlu C. (Editor), Özbil Torun A. (Editor), Tekçe I. (Editor), Bayazitoğlu Ü. C. (Editor)
Özyeğin Üniversitesi Yayınları, İstanbul, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. **Computational Design and Fabrication of Adobe-Hemp Mixture as a Vernacular Composite Material**
Karcı Y. E., Yazıcı S.
XVII. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, İstanbul, Turkey, 17 - 20 June 2023, vol.1, no.1, pp.126-138
- II. **Virtual Prototyping in Production Systems - Use of Modular Materials**
Doğan A. Z., Yazıcı S.
XVII. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, İstanbul, Turkey, 17 - 20 June 2023, vol.1, no.1, pp.112-125
- III. **Design of Lightweight Fibrous Shells by the Use of Knitting Patterns**
Keles A., Yazıcı S.
41st Conference on Education and Research in Computer Aided Architectural Design in Europe, eCAADe 2023, Graz, Austria, 20 - 22 September 2023, vol.2, pp.317-326
- IV. **A Generative Design Model for Demolition Waste Reuse: Recycled Aggregate Incorporated Rammed Earth Structures**
Buyukmihci K., Yazıcı S.
41st Conference on Education and Research in Computer Aided Architectural Design in Europe, eCAADe 2023, Graz, Austria, 20 - 22 September 2023, vol.2, pp.79-86
- V. **Computational Design and Analysis of Shell Topologies driven by Different Microstructural Patterns found in Natural Materials**
Battal A., Yazıcı S.
41st Conference on Education and Research in Computer Aided Architectural Design in Europe, eCAADe 2023, Graz, Austria, 20 - 22 September 2023, vol.2, pp.297-306
- VI. **A Methodology for Material-based Computational Design Supported by Mobile Augmented Reality**

Application

Karacif E., Yazıcı S.

10th ASCAAD Conference, Bayrut, Lebanon, 12 - 13 October 2022, pp.302-312

VII. **Malzemeye, Başarıma ve Veriye Dayalı Hesaplamalı Tasarım Yöntemleri: Araştırma, Uygulama ve Mimarlık Eğitimi**

Yazıcı S.

Mimari Tasarım Araştırmaları Ulusal Sempozyumu (MİTA III): Mimari Tasarım Araştırmaları ve Bilişim Teknolojileri, İstanbul, Turkey, 24 September 2021, pp.82-91

VIII. **A machine-learning model driven by geometry, material and structural performance data in architectural design process**

Yazıcı S.

38th eCAADe (Education and research in Computer Aided Architectural Design in Europe), Berlin, Germany, 16 - 17 September 2020, vol.1, pp.411-418

IX. **Prototyping Generative Architecture: Experiments on Multi-Agent Systems, Environmental Performance and 3D Printing**

Yazıcı S., Gerber D. J.

8.ASCAAD (Arab Society for Computer Aided Architectural Design) Conference, London, United Kingdom, 7 - 08 November 2016, pp.145-153

X. **Mimarlık ve Teknoloji Arakesitinde Sayısal Araçlar: Sayısal Araçların Mimari Tasarım Süreci ile Bütünleştirilmesi**

Yazıcı S.

Mimari Tasarım Araştırmaları Ulusal Sempozyumu: 21. Yüzyıl, İstanbul, Turkey, 16 - 17 April 2015, pp.208-219

XI. **Doğal Sistemlerden Öğrenmek: Parametre, Kural ve İlişkiler**

Yazıcı S.

9. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, İstanbul, Turkey, 25 - 26 June 2015, pp.144-155

XII. **A Course on Biomimetic Design Strategies**

Yazıcı S.

33rd International Conference on Education and Research in Computer Aided Architectural Design in Europe (eCAADe), Vienna, Austria, 16 - 18 September 2015, pp.111-118

XIII. **Malzeme Biçim ve Başarım Tabanlı Bir Yazılım Geliştirme**

Yazıcı S., Tanaçan L.

8.Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, İzmir, Turkey, 26 - 27 June 2016, pp.279-288

XIV. **Efficiency in Architectural Geometry Informed by Materials**

Yazıcı S.

32nd International Conference on Education and Research in Computer Aided Architectural Design in Europe (eCAADe), Newcastle-Upon-Tyne, United Kingdom, 10 - 12 September 2014, pp.547-554

XV. **Doğal Sistemlerdeki Optimizasyon Süreçleri ve Malzeme Üzerinden Hesaplamalı Morfogenez**

Yazıcı S., Tanaçan L.

7.Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, İstanbul, Turkey, 27 - 28 June 2013, pp.179-188

XVI. **Performance Based Pavilion Design A dialogue between environmental and structural performance**

Yazıcı S.

31st International Conference on Education and Research in Computer Aided Architectural Design in Europe (eCAADe), Delft, Netherlands, 18 - 20 September 2013, pp.127-135

XVII. **Material in Performance driven Architectural Geometry**

Yazıcı S., Tanaçan L.

100. Association of Collegiate Schools of Architecture (ACSA) Meeting, Digital Aptitudes Conference, Massachusetts, United States Of America, 1 - 04 March 2012, pp.266-273

Supported Projects

Yazıcı S., Project Supported by Higher Education Institutions, Hesaplamalı Malzeme Tasarımında Mikrostrüktürün Mimari Tasarımla İlişkilendirilmesi, 2021 - 2023

Patent

Yazıcı S., Yapısal ve Çevresel Faktörler Işığında bir Yapı Sisteminin Tasarım ve Üretim Yöntemi , Patent, CHAPTER A Human Needs, The Invention Registration Number: TR 2018 09558 A2 , Standard Registration, 2022

Yazıcı S., Manufacturing method for a building system in regards to structural and environmental factors, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: US11141881B2 , Standard Registration, 2021

Tanaçan L., Yazıcı S., Mimarlıkta Malzeme Tabanlı Bütünleşik Hesaplamalı Tasarım Modeli, Patent, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 2014/00551 , Standard Registration, 2018

Chima J. S., Leung E. H. C., Nikolakaki S., Yazıcı S., Intelligent Bi-stable Structure System, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: GB2445572 , 2009

Activities in Scientific Journals

JCoDe: Journal of Computational Design, Committee Member, 2020 - Continues

Scientific Refereeing

XV. mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, Conference Paper (Abstract), April 2021

39th eCAADe Conference: Education and Research in Computer Aided Architectural Design in Europe, Conference Paper (Full Text), April 2021

the International Journal of Digital Innovation in the Built Environment (IJDIBE), Other Indexed Journal, April 2021

OPEN HOUSE INTERNATIONAL, Journal Indexed in AHCI, March 2021

INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, November 2020

Journal of Design Studio, Other Indexed Journal, October 2020

38th eCAADe Conference: Education and Research in Computer Aided Architectural Design in Europe, Conference Paper (Full Text), May 2020

XIV. mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, Conference Paper (Abstract), March 2020

Project Supported by Public Organizations in Other Countries, Einstein Foundation Berlin, Germany, June 2019

eCAADe (Education and Research in Computer Aided Architectural Design in europe) and SIGraDi (Sociedad Iberoamericana de Gráfica Digital) 2019, Conference Paper (Abstract), March 2019

XIII. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, Conference Paper (Abstract), March 2019

CAAD Futures Conference, Daejeon / Korea, Conference Paper (Full Text), February 2019

ARCHITECTURAL SCIENCE REVIEW, Journal Indexed in AHCI, April 2018

XII. mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, Conference Paper (Abstract), March 2018

SIGraDi (Sociedad Iberoamericana de Gráfica Digital) 2017, Conference Paper (Abstract), May 2017

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E, April 2017

XI. mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, Conference Paper (Abstract), March 2017

SIGraDi (Sociedad Iberoamericana de Gráfica Digital) 2016, Conference Paper (Abstract), May 2016

X. mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, Conference Paper (Abstract), March 2016

IX. mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, Conference Paper (Abstract), March 2015

Mimari Tasarım Araştırmaları Ulusal Sempozyumu: 21. Yüzyıl, Conference Paper (Abstract), February 2015

Tasks In Event Organizations

Yazıcı S., XV. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, Scientific Congress, İstanbul, Turkey, Haziran 2021

Yazıcı S., IX. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, Scientific Congress, İstanbul, Turkey, Haziran 2015

Yazıcı S., MİTA-2015 “Mimari Tasarım Araştırmaları: 21. Yüzyıl” Ulusal Sempozyumu, Scientific Congress, İstanbul, Turkey, Nisan 2015

Scientific Research / Working Group Memberships

Codenetwork: Türkiye Hesaplamalı Tasarım Araştırmaları Ve Eğitimi Ağı, Istanbul Technical University, Turkey, <http://www.codenetwork.info/>, 2016 - Continues

Metrics

Publication: 33

Citation (WoS): 22

Citation (Scopus): 34

H-Index (WoS): 3

H-Index (Scopus): 4

Congress and Symposium Activities

Eurasian BIM Forum 2021, Session Moderator, İstanbul, Turkey, 2021

Mimari Tasarım Araştırmaları Ulusal Sempozyumu III , Invited Speaker, İstanbul, Turkey, 2021

Busan International Architectural Culture Festival, Working Group, Busan, South Korea, 2015

Invited Talks

Methods, Models and Applications in Material-based Computational Design, Seminar, THE AMERICAN UNIVERSITY IN CAIRO, Egypt, April 2021

Disiplinler Arası Araştırmalar ve Fikri Hakların Korunumu: Mimarlıkta Malzeme-tabanlı Bütünleşik Hesaplamalı Tasarım Modeli Örneği, Seminar, İstanbul Teknik Üniversitesi, Turkey, May 2018

Material-Based Integral Computational Design, Conference, İhsan Doğramacı Bilkent Üniversitesi, Turkey, December 2012

Scholarships

Architectural Association Graduate School Bursary, University, 2004 - 2006

Von Gerkan & Marg und Partners, Berlin Office, Internship Scholarship, Official Institutions of Foreign Countries, 2002 - 2002

Awards

Yazıcı S., Gold Medal: Design and Manufacturing Method for a Building System in Regards to Structural and

Environmental Factors, Türkipatent, October 2018

Yazıcı S., Gold Medal: Design and Manufacturing Method for a Building System in Regards to Structural and

Environmental Factors, China Association Of Inventions, September 2018

Yazıcı S., UK Alumni Awards / Professional Achievement Award, Turkey, British Council, March 2016

Yazıcı S., Best PhD Dissertation Award, İstanbul Teknik Üniversitesi, May 2014

Yazıcı S., 1st Prize (Zaha Hadid Architects Project Team) / Kral Abdullah II Art and Culture House Competition Project, Amman Büyükşehir Belediyesi, June 2008

Yazıcı S., 1st Prize (Zaha Hadid Architects Project Team) / Kartal-Pendik Masterplan Competition Project, İstanbul Büyükşehir Belediyesi, March 2006

Non Academic Experience

Company, Zaha Hadid Architects

Zaha Hadid Mimarlık, Londra Ofisi

von Gerkan, Marg und Partners, Berlin Ofisi