

Lect. ÇAĞLAR FIRAT ÖZGENEL

Personal Information

Office Phone: [+90 312 210 4209](tel:+903122104209)

Fax Phone: [+90 312 210 7966](tel:+903122107966)

Email: fozgenel@metu.edu.tr

Web: <https://www.firatozgenel.com>

Address: ODTÜ Mimarlık Bölümü Üniversiteler Mahallesi Dumlupınar Bulvarı No:1 Çankaya Ankara

International Researcher IDs

ORCID: 0000-0001-8443-8584

ScopusID: 190224-003555

Education Information

Doctorate, Middle East Technical University, Faculty of Architecture, Department of Architecture, Turkey 2012 - 2018

Postgraduate, Middle East Technical University, Faculty of Architecture, Department of Architecture, Turkey 2009 - 2012

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, Turkey 2004 - 2009

Dissertations

Doctorate, Crack Detection with Deep Learning: An Exemplary Study of Data Design in Architecture, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2018

Postgraduate, Developing a tool for acoustical performance evaluation throughout the design, Middle East Technical University, Graduate School of Natural and Applied Sciences, Yapı Bilimleri (YI) (Tezli), 2012

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Architecture

Academic Titles / Tasks

Lecturer, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2010 - Continues

Courses

DIGITAL DESIGN STUDIO II: ADVANCED THEMES, Undergraduate, 2018 - 2019

DIGITAL DESIGN STUDIO, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Proposal of a New Tool for 3D Pattern Generation**

Ozgenel F., Sorguc A. G.

NEXUS NETWORK JOURNAL, vol.17, no.2, pp.655-670, 2015 (SCI-Expanded)

II. DEVELOPING AN INTERFACE IN PERFORMANCE BASED COMPUTATIONAL DESIGN: ACOUSTICAL PERFORMANCE OF PRELIMINARY DESIGNS

Ozgenel Ç. F., Sorguc A.

METU JOURNAL OF THE FACULTY OF ARCHITECTURE, vol.28, pp.243-253, 2011 (AHCI)

Books & Book Chapters

I. XI. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu: MSTAS2017 / İMKANSIZ MEKANLAR : OLANAKSIZIN OLANAĞI

Sorguç A. (Editor), Kruşa Yemişcioğlu M. (Editor), Özgenel Ç. F. (Editor)

Odtü Mimarlık Fakültesi, Ankara, 2017

Refereed Congress / Symposium Publications in Proceedings

I. A Computational Design Workshop Experience for 21st Century Architecture Education

SORGUÇ A., KRUŞA YEMİŞCİOĞLU M., ÖZGENEL Ç. F.

eCAADe SIGraDi 2019, Porto, Portugal, 11 - 13 September 2019, vol.1, pp.127-136

II. STEAM Approach for Architecture Education

SORGUÇ A., ÖZGENEL Ç. F., KRUŞA YEMİŞCİOĞLU M., Küçüksabaşı F., YILDIRIM İ. S., Antonini E., Bartolomei L., Ovesen N., Steino N.

eCAADe SIGraDi 2019, Porto, Portugal, 11 - 13 September 2019, vol.1, pp.137-146

III. Sayısal Tasarım Eğitiminde Doğa Öğrenili Mimarlık

Sorguç A., Kruşa Yemişcioğlu M., Özgenel Ç. F.

MSTAS2019: Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, Kocaeli, Turkey, 17 - 18 June 2019, vol.1, no.1

IV. Architecture 4.0: A New Manifestation of Contemporary Technology

Kruşa Yemişcioğlu M., Sorguç A., Özgenel Ç. F.

International Conference on Digital Transformation & Smart Systems, Ankara, Turkey, 24 - 26 October 2018

V. Multiverse of a Form

SORGUÇ A., KRUŞA YEMİŞCİOĞLU M., ÖZGENEL Ç. F.

Proceedings of the 36th International Conference on Education and Research in Computer Aided Architectural Design in Europe, Łódź, Poland, 19 - 21 September 2018, vol.2, pp.411-416

VI. Crystal Formations and Symmetry in the Search of Patterns in Architecture

KRUŞA YEMİŞCİOĞLU M., SORGUÇ A., ÖZGENEL Ç. F.

36. eCAADe: Education and Research in Computer Aided Architectural Design in Europe, Łódź, Poland, 19 - 21 September 2018, vol.2, pp.121-128

VII. Performance Comparison of Pretrained Convolutional Neural Networks on Crack Detection in Buildings

Özgenel Ç. F., Sorguç A.

35th International Symposium on Automation and Robotics in Construction (ISARC 2018), Berlin, Germany, 20 - 25 July 2018, pp.693-700

VIII. Yazılımların Biçimlendiriciliği, Biçime Yabancı Örüntüler

SORGUÇ A., ÖZGENEL Ç. F., KRUŞA YEMİŞCİOĞLU M.

MSTAS2018: Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, Isparta, Turkey, 21 - 22 June 2018

IX. Transcoding Crystals on the search for Extreme in Architecture

Sorguç A., Kruşa Yemişcioğlu M., Özgenel Ç. F.

ICMMA 2017, Tokyo, Japan, 11 - 13 December 2017

X. Multiverse of a Form Snowflake to Shelder

SORGUÇ A., Yemişcoğlu M. K., ÖZGENEL Ç. F.

36th International Conference on Education and Research in Computer Aided Architectural Design in Europe, eCAADe 2018, Łódź, Poland, 19 - 21 September 2018, vol.2, pp.411-416

XI. The Role of VR as a New Game Changer in Computational Design Education

Sorguç A., Kruşa Yemişcioğlu M., Özgenel Ç. F., Katipoğlu M. O., Rasulzade R.

35th eCAADe Conference, Rome, Italy, 20 - 22 September 2017, vol.1, pp.401-408

XII. Mimarlık Eğitiminde Tepkimeli Kinetik Sistem Yaklaşımı

SORGUÇ A., KÜÇÜKSUBAŞI F., ÜLGEN S., ÖZGENEL Ç. F., KRUSA YEMİŞCİOĞLU M.

MSTAS2017 : 11. MİMARLIKTAKI SAYISAL TASARIM ULUSAL SEMPOZYUMU, Ankara, Turkey, 14 - 15 June 2017, pp.60-69

XIII. Otonom Çatlık Tespitinde Kullanılan Görüntü İşleme Yöntemleri ve Teknolojinin Potansiyelleri

Özgenel Ç. F.

3. Ulusal Yapı Kongresi ve Sergisi, Ankara, Turkey, 24 - 26 November 2016

XIV. Biçim Arayışlarında Sayısal İmalat Üretim Teknolojilerinin Dönüştürücü Gücü

SORGUÇ A., ÖZGENEL Ç. F., ÜLGEN S., KÜÇÜKSUBAŞI F., KRUSA YEMİŞCİOĞLU M.

10. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, İstanbul, Turkey, 27 - 28 June 2016

XV. 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

XVI. A new method of curve fitting for calculation of reverberation time from impulse responses with insufficient length

Özgenel Ç. F., Sorguç A.

ASME 2012 Noise Control and Acoustics Division Conference at InterNoise 2012, NCAD 2012, New-York, United States Of America, 19 - 22 August 2012, pp.545-549

XVII. A new method of curve fitting for calculation of reverberation time from impulse responses with insufficient length

Özgenel Ç. F., SORGUÇ A.

41st International Congress and Exposition on Noise Control Engineering 2012, INTER-NOISE 2012, New York, United States Of America, 19 - 22 August 2012, vol.11, pp.9066-9070

XVIII. A NEW METHOD OF CURVE FITTING FOR CALCULATION OF REVERBERATION TIME FROM IMPULSE RESPONSES WITH INSUFFICIENT LENGTH

ÖZGENEL Ç. F., Sorguç A. G.

Internoise/ASME 2012 Noise Control and Acoustics Division Conference, New-York, United States Of America, 19 - 22 August 2012, pp.545-549

XIX. A New Method Of Curve Fitting For Calculating Reverberation Time From Impulse Responses With Insufficient Length

SORGUÇ A., ÖZGENEL Ç. F.

Internoise, 19 - 22 August 2012

Supported Projects

SORGUÇ A., ÖZGENEL Ç. F., Project Supported by Higher Education Institutions, Yapı Belgelemede Üretken Çekişmeli Ağlar (Generative Adversarial Network) ile Gürültü Silme, 2018 - 2019

Sorguç A., Özgenel Ç. F., Kruşa Yemişcioğlu M., Yıldırım İ. S., Erasmus Project, Greening the skills of Architecture students via STEAM education, 2017 - 2018

Sorguç A., Kruşa Yemişcioğlu M., Özgenel Ç. F., Yıldırım İ. S., EU Supported Other Project, Design of Curriculum for Woodworking CNC Operators in Turkey, 2015 - 2017

Kruşa Yemişcioğlu M., Özgenel Ç. F., Sorguç A., Company, İstanbul 3 Havalimanı Çelik Konstrüksiyonu, 2016 - 2016

Özgenel Ç. F., Sorguç A., Project Supported by Higher Education Institutions, Development of Navigation Algorithm for Autonomous/Semi-autonomous Robotic Systems to be Utilized in Building Inspection/Monitoring , 2016 - 2016

Özgenel Ç. F., Sorguç A., Industrial Thesis Project, Gişe Geçişleri İçin Aktif Gürültü Bariyeri , 2014 - 2015
Özgenel Ç. F., Sorguç A., Kruşa Yemişcioğlu M., Project Supported by Higher Education Institutions, METU Campus
Vertical and Horizontal Noise Mapping, 2013 - 2014

Scientific Refereeing

AUTOMATION IN CONSTRUCTION, Journal Indexed in SCI-E, October 2019
Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu 2019, Conference Paper (Full Text), March 2019
eCAADe SIGraDi 2019 Conference, Conference Paper (Full Text), March 2019
IEEE ACCESS, Journal Indexed in SCI-E, November 2018
Metu Journal Of The Faculty Of Architecture, Journal Indexed in AHCI, May 2018
Metu Journal Of The Faculty Of Architecture, Journal Indexed in AHCI, December 2014

Tasks In Event Organizations

Sorguç A., Kruşa Yemişcioğlu M., Özgenel Ç. F., STEAM Approach in Architectural Education, Scientific Congress, Ankara, Turkey, Aralık 2018
Sorguç A., Özgenel Ç. F., Kruşa Yemişcioğlu M., Cocoon: A Computational Design Workshop, Workshop Organization, Ankara, Turkey, Eylül 2018
Sorguç A., Kruşa Yemişcioğlu M., Özgenel Ç. F., MSTAS.2017: 11. National Symposium of Computational Design in Architecture, Scientific Congress, Ankara, Turkey, Haziran 2017
Sorguç A., Özgenel Ç. F., Kruşa Yemişcioğlu M., Nexus2014: Relationship between Mathematics and Architecture, Scientific Congress, Ankara, Turkey, Haziran 2014

Metrics

Publication: 23
Citation (WoS): 5
Citation (Scopus): 132
H-Index (WoS): 2
H-Index (Scopus): 2

Awards

Özgenel Ç. F., Yayın Teşvik Ödülü, Tübitak Ulakbim, January 2012