

## Personal Information

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Çankaya/Ankara/Turkey

## International Researcher IDs

ORCID: 0000-0003-4417-0776

Publons / Web Of Science ResearcherID: C-1703-2017

ScopusID: 58151157700

Yoksis Researcher ID: 238336

## Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Yapı Bilimleri (Dr), Turkey  
2014 - 2021

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Turkey 2009 - 2013

Undergraduate, Middle East Technical University, Faculty of Architecture, Department of Architecture, Turkey 2004 -  
2009

## Foreign Languages

English, C2 Mastery

Italian, B1 Intermediate

## Certificates, Courses and Trainings

Other, Origami and Deployable Mechanisms Workshop, Okinawa Institute of Science and Technology Graduate University  
OIST, 2019

Environment and Sustainability, D1 - Temel Bina Akustiği Sertifika Programı / Fundamentals of Building Acoustics, The  
Chamber of Physics Engineers, 2019

## Dissertations

Doctorate, NATURE-INFORMED ARCHITECTURE (NIA): LEARNING FROM DEFECTS IN CRYSTALS, Middle East Technical  
University, Graduate School of Natural and Applied Sciences, Building Sciences, 2021

Postgraduate, Human crowd simulation as an evaluation tool for generative temporary site organization, Middle East  
Technical University, Graduate School of Natural and Applied Sciences, Mimarlıkta Sayısal Tasarım Ve Üretim  
Teknolojileri (YI) (Tezli) (Uoylp-Delft Teknik Üniv. Ortak), 2013

## Research Areas

Architecture, Engineering and Technology

## Academic Titles / Tasks

Lecturer PhD, Middle East Technical University, Presidency Office, DESIGN FACTORY: Design and Prototyping Application and Research Center, 2023 - Continues

Expert, Middle East Technical University, Presidency Office, Design and Prototyping Application and Research Center (Design Factory), 2020 - 2022

Research Assistant, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2014 - 2020

## Courses

Digital Design Studio, Undergraduate, 2023 - 2024

## Jury Memberships

Competition, Tasarla Çukurova: UNDP Türkiye, UNDP Turkey, December, 2020

## Designed Lessons

Sorguç A., Özgenel Ç. F., Kruşa Yemişcioğlu M., Introduction to Machine Learning in Architecture, Postgraduate, 2019 - 2020

Sorguç A., Kruşa Yemişcioğlu M., Özgenel Ç. F., Nature-informed Computational Design in Architecture, Postgraduate, 2019 - 2020

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. Mapping Crystal Symmetry into Architecture**  
KRUŞA YEMİŞCİOĞLU M., Gönenc Sorguç A.  
Nexus Network Journal, vol.25, pp.313-319, 2023 (SCI-Expanded)

## Articles Published in Other Journals

- I. DEMYSTIFYING MACHINE LEARNING FOR ARCHITECTURE STUDENTS**  
Sorguç A., Yemişcioğlu M. K., Yetkin O.  
Eskişehir Technical University Journal of Science and and Technology A- Applied Sciences and Engineering, vol.23, pp.60-67, 2022 (Peer-Reviewed Journal)
- II. Fabrication Technologies in Architecture and Industry/Architecture 4.0**  
Sorguç A., Kruşa Yemişcioğlu M.  
Dosya 45: Gelecek, Teknoloji ve Mimarlık, no.45, pp.6-17, 2020 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **15. Is circularity a measure of complexity in architecture?**  
Sorgu A., KruŐa YemiŐcioęlu M.  
in: Architectures for Next Generation EU Cities, Antonini Ernesto, Gaspari Jacopo, Editor, FrancoAngeli, Milan, pp.249-262, 2022
- II. **XI. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu: MSTAS2017 / İMKANSIZ MEKANLAR : OLANAKSIZIN OLANAęI**  
Sorgu A. (Editor), KruŐa YemiŐcioęlu M. (Editor), zgenel . F. (Editor)  
Odtü Mimarlık Fakóltesi, Ankara, 2017

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

- I. **Levels of Mapping in Nature-informed Studies A Case Study on Informed Wall**  
KruŐa YemiŐcioęlu M., Gnen Sorgu A., Yetkin O.  
40th Education and Research in Computer Aided Architectural Design in Europe (eCAADe) Conference, Ghent, Belgium, 13 - 16 September 2022, vol.1, pp.271-280
- II. **Origami to Decode Folding Strategies in Nature**  
Sorgu A., KruŐa YemiŐcioęlu M., Hagiwara I.  
WCCM-APCOM 2022: 15th World Congress on Computational Mechanics & 8th Asian Pacific Congress on Computational Mechanics, Yokohama, Japan, 31 July - 05 August 2022
- III. **Demystifying Machine Learning for Architecture Students**  
Sorgu A., KruŐa YemiŐcioęlu M., Yetkin O.  
Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, EskiŐehir, Turkey, 22 - 26 June 2022
- IV. **Is Circularity a Measure for Complexity in Architecture?**  
Sorgu A., KruŐa YemiŐcioęlu M.  
NEXTBUILT 2022: International conference on Challenges for the Next generation Built environment, Bologna, Italy, 13 May 2022
- V. **Is the Winter of Computational Design Tools coming?**  
Sorgu A., Yetkin O., KruŐa YemiŐcioęlu M.  
MSTAS2020: Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, Trabzon, Turkey, 24 October 2020, pp.12-20
- VI. **A Computational Design Workshop Experience for 21st Century Architecture Education**  
SORGU A., KRUŐA YEMİŐCİOęLU M., ZGENEL . F.  
eCAADe SIGraDi 2019, Porto, Portugal, 11 - 13 September 2019, vol.1, pp.127-136
- VII. **STEAM Approach for Architecture Education**  
SORGU A., ZGENEL . F., KRUŐA YEMİŐCİOęLU M., KksubaŐı 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
- VIII. **Sayısal Tasarım Eęitiminde Doęa ęrenili Mimarlık**  
Sorgu A., KruŐa YemiŐcioęlu M., zgenel . F.  
MSTAS2019: Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, Kocaeli, Turkey, 17 - 18 June 2019, vol.1, no.1
- IX. **Architecture 4.0: A New Manifestation of Contemporary Technology**  
KruŐa YemiŐcioęlu M., Sorgu A., zgenel . F.  
International Conference on Digital Transformation & Smart Systems, Ankara, Turkey, 24 - 26 October 2018
- X. **Multiverse of a Form**  
SORGU A., KRUŐA YEMİŐCİOęLU M., ZGENEL . 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
- XI. **Crystal Formations and Symmetry in the Search of Patterns in Architecture**  
KRUŐA YEMİŐCİOęLU M., SORGU A., ZGENEL . F.  
36. eCAADe: Education and Research in Computer Aided Architectural Design in Europe, Łódź, Poland, 19 - 21 September 2018, vol.2, pp.121-128

- XII. **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
- XIII. **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
- XIV. **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
- XV. **Mimarlık Eğitiminde Tepkimeli Kinetik Sistem Yaklaşımı**  
SORGUÇ A., KÜÇÜKSUBAŞI F., ÜLGEN S., ÖZGENEL Ç. F., KRUŞA YEMİŞCİOĞLU M.  
MSTAS2017 : 11. MİMARLIKTA SAYISAL TASARIM ULUSAL SEMPOZYUMU, Ankara, Turkey, 14 - 15 June 2017, pp.60-69
- XVI. **DOĞADAN ÖĞRENMENİN YENİ MİMARİ TEKTONİKLERDEKİ ETKİSİ**  
KRUŞA YEMİŞCİOĞLU M.  
3. Ulusal Yapı Kongresi ve Sergisi, Ankara, Turkey, 24 - 26 November 2016
- XVII. **Biçim Arayışlarında Sayısal İmalat Üretim Teknolojilerin Dönüştürücü Gücü**  
SORGUÇ A., ÖZGENEL Ç. F., ÜLGEN S., KÜÇÜKSUBAŞI F., KRUŞA YEMİŞCİOĞLU M.  
10. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu, İstanbul, Turkey, 27 - 28 June 2016

## Supported Projects

- 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., 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
- Sorguç A., Özgenel Ç. F., Ülgen S., Kruşa Yemişcioğlu M., Project Supported by Higher Education Institutions, ODTÜ YERLEŞKESİNİN GÜRÜLTÜ HARİTASININ ÇIKARILMASI VE KAMPÜS PLANLANMASI ETKİ DEĞERLEMESİ, 2013 - 2013

## Scientific Refereeing

- METU JOURNAL OF THE FACULTY OF ARCHITECTURE = ODTÜ MİMARLIK FAKÜLTESİ DERGIS, Journal Indexed in AHCI, July 2023

## 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: 22

Citation (WoS): 4

Citation (Scopus): 11

H-Index (WoS): 1

H-Index (Scopus): 2

## **Non Academic Experience**

ORTA DOĐU TEKNİK ÜNİVERSİTESİ

ORTA DOĐU TEKNİK ÜNİVERSİTESİ