

## Prof. İPEK GÜRSEL DİNO

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAA-6763-2019

ScopusID: 55316964000

Yoksis Researcher ID: 190679

## Education Information

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- I. Doctorate, Technische Universiteit Delft, Architecture, Building Technology , Netherlands 2006 - 2010
- II. Postgraduate, Carnegie Mellon University, Mimarlık, School of Architecture, United States Of America 2002 - 2005
- III. Postgraduate, Middle East Technical University, Faculty of Architecture, Department of Architecture, Turkey 2000 - 2002
- IV. Undergraduate, Gazi University, Mimarlık Fakültesi, Mimarlık Bölümü, Turkey 1996 - 2000

## Foreign Languages

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- I. Dutch, A1 Beginner
- II. English, C1 Advanced

## Dissertations

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- I. Doctorate, CLIP. Computational Support for Lifecycle Integral. Building Performance Assessment, Delft University Of Technology, Building Technology Department, 2010
- II. Postgraduate, The Limits of virtuality in space: The transformative relations between immateriality and architecture, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2002

## Research Areas

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Performance of Constructed Facilities, Architecture, Building Design, Physical Urban Protection, Engineering and Technology

## Academic Titles / Tasks

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- I. Professor, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2024 - Continues
- II. Associate Professor, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2019 - 2024
- III. Assistant Professor, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2011 - 2018

## Academic and Administrative Experience

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- I. Enstitü Yönetim Kurulu Üyesi, Middle East Technical University, Presidency Office, Presidency Office, 2020 - Continues

## Courses

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- I. Climate change and the Built Environment, Postgraduate, 2021 - 2022
- II. Performative Architectural Lab, Undergraduate, 2020 - 2021
- III. DIRECTED STUDIES IN ENVIRON. DESIGN I, Postgraduate, 2018 - 2019, 2017 - 2018
- IV. BASIC DESIGN, Undergraduate, 2018 - 2019
- V. M.ARCH THESIS IN ARCHITECTURE, Postgraduate, 2018 - 2019
- VI. DIGITAL MEDIA IN ARCHITECTURE I, Undergraduate, 2018 - 2019
- VII. INTRODUCTION TO ARCHITECTURAL DESIGN, Undergraduate, 2017 - 2018

## Advising Theses

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- I. Gürsel Dino I., Analyzing thermal comfort of transitional spaces through climate-responsive design solutions, Postgraduate, Ü.NUR(Student), 2023
- II. Gürsel Dino I., Akgül Ç., Climate change impact on a 3D printed concrete building, Postgraduate, F.SİNAN(Student), 2023
- III. Gürsel Dino I., Kalkan S., Urban scale prediction of indoor daylighting illumination for sustainable buildings, Postgraduate, İ.CANLI(Student), 2022
- IV. Gürsel Dino I., Akgül Ç., Global Sensitivity Analysis for Urban Heat Island Effect: A Case Study in a Residential Neighbourhood in Ankara, Turkey, Postgraduate, B.ÇAKIR(Student), 2022
- V. Gürsel Dino I., Baş Bütüner F., Nature-based design for water-sensitive cities: A street-scale computational approach, Postgraduate, A.CAN(Student), 2022
- VI. Gürsel Dino I., DECODING CITY SQUARES WITH BIG DATA: A METHOD FOR URBAN ANALYTICS, Postgraduate, A.ÖZEN(Student), 2022
- VII. Gürsel Dino I., Akgül Ç., A data-driven approach for predicting solar energy potential of buildings in urban fabric, Postgraduate, A.DURAN(Student), 2022
- VIII. Gürsel Dino İ., THE EFFECTS OF PERFORMANCE-BASED DESIGN TOOLS ON DESIGN THINKING PROCESS, Postgraduate, G.GÖRGÜN(Student), 2022
- IX. Gürsel Dino İ., AN INVESTIGATION INTO BUILDING OCCUPANT BEHAVIOR OF DIFFERENT HOUSEHOLD TYPOLOGIES IN ARCHITECTURE, Postgraduate, M.İPEK(Student), 2022
- X. Gürsel Dino İ., Computational urban analytics for walkability: Çankaya, Ankara case, Postgraduate, S.İREM(Student), 2021
- XI. Gürsel Dino İ., An integrated computational framework for natural ventilation and airborne contaminant dispersion analysis in architectural design, Doctorate, G.MERİN(Student), 2021
- XII. Gürsel Dino İ., Sürer E., Immersive Design Environments for Performative Architectural Design: A BIM-Based Approach, Postgraduate, Ş.AKIN(Student), 2020
- XIII. Gürsel Dino İ., Sürer E., The Influence of Emergent Mixed-Reality Technologies on Design Thinking, Postgraduate, H.CEREN(Student), 2019
- XIV. Sürer E., Gürsel Dino İ., Developing Building Information Modelling Based Virtual Reality and Mixed Reality Environments for Architectural Design and Improving User Interactions with Serious Games, Postgraduate, O.Ergün(Student), 2019
- XV. Gürsel Dino I., ÇAKMAKLI A. B., SUSTAINABILITY IN ARCHITECTURAL EDUCATION: THE IMPACT OF EDUCATION

- ON PERCEPTIONS OF SUSTAINABILITY, Postgraduate, A.NİLÜFER(Student), 2019
- XVI. Gürsel Dino I, FREE FORM ARCHITECTURE AND INTERIOR SPACE: A CRITICAL ANALYTICAL APPROACH, Postgraduate, S.YILMAZ(Student), 2019
- XVII. Gürsel Dino I, COMPUTATIONAL DESIGN LEARNING: THE SMARTGEOMETRY CASE, Postgraduate, Ö.NUR(Student), 2019
- XVIII. GÜRSEL DİNO İ., An exploratory data analysis on architectural research agenda., Postgraduate, B.Ekinci(Student), 2019
- XIX. Gürsel Dino I, MAP-MAKING AS A WALKING-BASED SPATIAL PRACTICE IN ARCHITECTURE, Postgraduate, S.ÖZCIVANOĞLU(Student), 2019
- XX. GÜRSEL DİNO İ., An inquiry of space architecture: design considerations and design process., Postgraduate, E.Yeğen(Student), 2019
- XXI. Gürsel Dino I, Yoncaci Arslan P., Bunker-scape: Defense Architecture in Gallipoli Peninsula, Postgraduate, C.ARIKBOĞA(Student), 2019
- XXII. Gürsel Dino İ., An exploratory data analysis on architectural research agenda, Postgraduate, B.EKİNCİ(Student), 2019
- XXIII. Gürsel Dino I, Akgül Ç., Architectural Design for Climate Change Mitigation and Adaptation Strategies in Existing Buildings, Postgraduate, G.AKKÖSE(Student), 2019
- XXIV. Gürsel Dino I, Çakmaklı A. B., COLLABORATIVE WORKING SPACES: PROJECT ECOLOGIES AND MEANS OF INTERACTION AND COLLABORATION, Postgraduate, S.ERTAN(Student), 2019
- XXV. GÜRSEL DİNO İ., Performance-based facades: Retrofit strategies for energy efficiency and comfort in existing office buildings, Postgraduate, N.JAHED(Student), 2018
- XXVI. GÜRSEL DİNO İ., Performative Design Thinking in Architectural Practice, Postgraduate, C.ATAMAN(Student), 2018
- XXVII. GÜRSEL DİNO İ., An interactive computational approach to 3D layout design of single-family houses by evolutionary algorithms, Postgraduate, A.SAKARYALI(Student), 2017
- XXVIII. GÜRSEL DİNO İ., A computational method for the design exploration and optimization of daylighting performance of museum buildings, Postgraduate, M.FOOLADY(Student), 2017
- XXIX. GÜRSEL DİNO İ., BAYKAN A. C., Visual structures for generative design search spaces /, Postgraduate, G.MERİN(Student), 2014

## Designed Lessons

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- I. Gürsel Dino I, Performative Architecture Lab, Postgraduate, 2017 - 2018
- II. Gürsel Dino I, Generative Design in Architecture, Undergraduate, 2013 - 2014
- III. Sorguç A., Gürsel Dino İ., DIGITAL MEDIA IN ARCHITECTURE I, Undergraduate, 2012 - 2013

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

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- I. **Spatial variation of physical, mechanical, and thermophysical properties of 3D printed concrete across a full-scale wall**  
Bayrak A. T., Shaban N., Seyedian Choubi S., Tuncer E., Yang S., Yılmaz H. D., Alkilani A. Z., Dal H., Unluer C., Gürsel Dino I, et al  
CONSTRUCTION AND BUILDING MATERIALS, vol.431, 2024 (SCI-Expanded)
- II. **Perspectives of Machine Learning and Natural Language Processing on Characterizing Positive Energy Districts**  
Han M., Canli I., Shah J., Zhang X., GÜRSEL DİNO İ., KALKAN S.  
Buildings, vol.14, no.2, 2024 (SCI-Expanded)
- III. **Resilient cooling of the Mediterranean office spaces under climate change**  
Abbas G. M., AKGÜL Ç., GÜRSEL DİNO İ.

Architectural Engineering and Design Management, 2024 (SCI-Expanded)

- IV. **The diagonal axis from VERB to VOID: interdisciplinarity in basic design studio education**  
Çakmaklı A. B., Dino I. G., Daglioglu E. K., Pinar E., Arslan P. Y.  
ARCHNET-IJAR INTERNATIONAL JOURNAL OF ARCHITECTURAL RESEARCH, vol.17, no.4, pp.774-792, 2023 (AHCI)
- V. **Coupling PCM wallboard utilization with night Ventilation: Energy efficiency and overheating risk in office buildings under climate change impact**  
Tamer T., Gürsel Dino İ., Baker D. K., Meral Akgül Ç.  
ENERGY AND BUILDINGS, vol.298, 2023 (SCI-Expanded)
- VI. **An integrated pipeline for building performance analysis: Daylighting, energy, natural ventilation, and airborne contaminant dispersion**  
Abbas G. M., Gursel Dino I., Perçin M.  
JOURNAL OF BUILDING ENGINEERING, vol.75, pp.1-30, 2023 (SCI-Expanded)
- VII. **The impact of architectural design studio education on perceptions of sustainability**  
Çalıkuşu A. N., Çakmaklı A. B., Gürsel Dino I.  
International Jouranal of Architectural Research: Archnet-IJAR, vol.17, no.2, pp.375-392, 2023 (AHCI)
- VIII. **Proposing a novel mixed-reality framework for basic design and its hybrid evaluation using linkography and interviews**  
Cindioglu H. C., GÜRSEL DİNO İ., SÜRER E.  
INTERNATIONAL JOURNAL OF TECHNOLOGY AND DESIGN EDUCATION, vol.32, no.5, pp.2775-2800, 2022 (SCI-Expanded)
- IX. **Performative design processes in architectural practices in Turkey: architects' perception**  
Ataman C., Gürsel Dino I.  
Architectural Engineering and Design Management, vol.18, no.5, pp.690-704, 2022 (SCI-Expanded)
- X. **Vision-based estimation of the number of occupants using video cameras**  
Dino İ., Kalfaoglu E., Iseri O. K., Erdogan B., Kalkan S., Alatan A. A.  
Advanced Engineering Informatics, vol.53, 2022 (SCI-Expanded)
- XI. **Data-driven, long-term prediction of building performance under climate change: Building energy demand and BIPV energy generation analysis across Turkey**  
Tamer T., Gürsel Dino I., Meral Akgül Ç.  
Renewable and Sustainable Energy Reviews, vol.162, 2022 (SCI-Expanded)
- XII. **The impact of natural ventilation on airborne biocontaminants: a study on COVID-19 dispersion in an open office**  
Abbas G. M., Gürsel Dino İ.  
ENGINEERING CONSTRUCTION AND ARCHITECTURAL MANAGEMENT, vol.29, no.4, pp.1609-1641, 2022 (SCI-Expanded)
- XIII. **Heritage Building Information Modelling for the Conservation of 20th Century Modernist Architecture**  
Akin S., Gursel Dino İ., Savas Sargin A.  
METU JOURNAL OF THE FACULTY OF ARCHITECTURE = ODTÜ MIMARLIK FAKULTESİ DERGIS, vol.1, pp.1-11, 2022 (AHCI)
- XIV. **COVID-19 dispersion in naturally-ventilated classrooms: a study on inlet-outlet characteristics**  
Abbas G. M., Gürsel Dino I.  
Journal of Building Performance Simulation, vol.15, no.5, pp.656-677, 2022 (SCI-Expanded)
- XV. **Involving end users in retrofit of higher education buildings**  
Gooding L., Erdogan B., Gürsel Dino I.  
Journal of Building Engineering, vol.44, 2021 (SCI-Expanded)
- XVI. **Educational building retrofit under climate change and urban heat island effect**  
Akkose G., Akgül Ç., Gürsel Dino I.  
Journal of Building Engineering, vol.40, 2021 (SCI-Expanded)
- XVII. **An immersive performative architectural design tool with daylighting simulations: a building information modeling-based approach**

- Akin S., Ergun O., Sürer E., Gürsel Dino İ.  
ENGINEERING CONSTRUCTION AND ARCHITECTURAL MANAGEMENT, vol.28, no.4, pp.1319-1344, 2021 (SCI-Expanded)
- XVIII. **Image-based construction of building energy models using computer vision**  
GÜRSEL DİNO İ., Sari A. E., Iseri O. K., Akin S., Kalfaoglu E., Erdogan B., KALKAN S., ALATAN A. A.  
AUTOMATION IN CONSTRUCTION, vol.116, 2020 (SCI-Expanded)
- XIX. **Climate change impact assessment in residential buildings utilizing RCP4.5 and RCP8.5 scenarios**  
Akgul Ç., Dino I.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.3, pp.1665-1683, 2020 (SCI-Expanded)
- XX. **Impact of climate change on the existing residential building stock in Turkey: An analysis on energy use, greenhouse gas emissions and occupant comfort**  
Gürsel Dino I., Akgül Ç.  
RENEWABLE ENERGY, vol.141, pp.828-846, 2019 (SCI-Expanded)
- XXI. **Multiobjective Design Optimization of Building Space Layout, Energy, and Daylighting Performance**  
Dino I. G., Üçoluk G.  
Journal of Computing in Civil Engineering, vol.31, 2017 (SCI-Expanded)
- XXII. **An evolutionary approach for 3D architectural space layout design exploration**  
Dino I. G.  
AUTOMATION IN CONSTRUCTION, vol.69, pp.131-150, 2016 (SCI-Expanded)
- XXIII. **Evaluation of reference modeling for building performance assessment**  
Dino I. G., Stouffs R.  
AUTOMATION IN CONSTRUCTION, vol.40, pp.44-59, 2014 (SCI-Expanded)
- XXIV. **Method for energy performance integration in corporate public real estate management**  
Dino I. G., Leeuw R., SARIYILDIZ S., Stouffs R.  
Journal of Performance of Constructed Facilities, vol.28, no.2, pp.286-302, 2014 (SCI-Expanded)
- XXV. **CREATIVE DESIGN EXPLORATION BY PARAMETRIC GENERATIVE SYSTEMS IN ARCHITECTURE**  
GÜRSEL DİNO İ.  
METU JOURNAL OF THE FACULTY OF ARCHITECTURE, vol.29, no.1, pp.207-224, 2012 (AHCI)
- XXVI. **Modeling and visualization of lifecycle building performance assessment**  
Gursel I., Sariyildiz S., Akin O., STOUFFS R.  
ADVANCED ENGINEERING INFORMATICS, vol.23, no.4, pp.396-417, 2009 (SCI-Expanded)

## Articles Published in Other Journals

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- I. **Shading Effect of Transparent Photovoltaic Panels on Crops Underneath Agrivoltaic Systems**  
Seyedpour Esmailzad S., Gürsel Dino İ., Güney D., Yıldırım Y. E., Turan R., Özden T.  
AgriVoltaics Conference Proceedings, vol.1, pp.1-9, 2024 (Conference Book)
- II. **Teaching Architectural Design Studio Remotely: The Introduction to Architectural Design Course at METU**  
Daglioglu E. K., Pinar E., Dino I. G., Arslan P. Y., Butuner F. B.  
JOURNAL OF DESIGN STUDIO, vol.2, no.2, pp.153-157, 2020 (Peer-Reviewed Journal)
- III. **Binalarda Güneş Kontrol Yöntemlerinin Optimizasyon Temelli Performans Değerlendirilmesi**  
Gürsel Dino I.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part: C Tasarım ve Teknoloji, vol.5, no.3, pp.71-87, 2017 (Peer-Reviewed Journal)
- IV. **Tasarım ve Hesaplamanın Doğası**  
GÜRSEL DİNO İ.  
Dosya, 2015 (Peer-Reviewed Journal)

## Books & Book Chapters

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### I. GELECEK, TEKNOLOJİ VE MİMARLIK

Gürsel Dino I, Abbas G. M.

in: GELECEK, TEKNOLOJİ VE MİMARLIK, İpek Gürsel Dino, Günsu Merin Abbas, Editor, TMMOB Mimarlar Odası Ankara Şubesi, Ankara, pp.1-5, 2020

## Refereed Congress / Symposium Publications in Proceedings

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- I. **Transfer Learning-Based Prediction of Heating Energy Consumption Using Urban Building Energy Models (UBEM)**  
Canlı I, UÇAR Ş., GURSOY F. E., HALAÇLI E. G., İŞERİ O. K., YAVUZ F., GÜRSEL DİNO İ., KALKAN S.  
31st International Workshop on Intelligent Computing in Engineering, EG-ICE 2024, Vigo, Spain, 3 - 05 July 2024, pp.580-589
- II. **From crisis to recovery: An examination of sheltering response in Türkiye after the February 6, 2023, earthquakes**  
Akdede N., Özaydin Ö., Ay B. Ö., Gürsel Dino I.  
The NEEDS Conference, Enschede, Netherlands, 31 October - 03 November 2023
- III. **Integrating Nature-Based Water Management At Street-Scale: A Design Approach For Sustainable Urban Development**  
Karakadılar A. C., Gürsel Dino İ., Baş Bütüner F.  
ICSULA 2023 2. ULUSLARARASI SÜRDÜRÜLEBİLİR KENTLER KONGRESİ, Konya, Turkey, 26 - 27 October 2023
- IV. **A Study on Planned and Unplanned Playgrounds of Post-Disaster Transitional Settlements after February 6, 2023, Kahramanmaraş earthquakes**  
Akdede N., Özaydin Ö., Ay B. Ö., Gürsel Dino I.  
5th International Disaster and Resilience Congress, Kocaeli, Turkey, 11 - 13 October 2023
- V. **A Novel Graph Neural Network for Zone-Level Urban-Scale Building Energy Use Estimation**  
Halaçlı E. G., Canlı I, İŞERİ O. K., YAVUZ F., AKGÜL Ç., KALKAN S., GÜRSEL DİNO İ.  
10th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (BuildSys), İstanbul, Turkey, 15 - 16 November 2023, pp.169-176
- VI. **Useful Daylight Illuminance Prediction Under Data Imbalance in an Urban Context**  
Canlı I, KALKAN S., GÜRSEL DİNO İ.  
41st Conference on Education and Research in Computer Aided Architectural Design in Europe, eCAADe 2023, Graz, Austria, 20 - 22 September 2023, vol.2, pp.599-608
- VII. **Future performance evaluation of PCM integrated buildings under changing climate**  
Tamer T., Baker D. K., Gürsel Dino I., Akgül Ç.  
IOP Conference Series: Earth and Environmental Science, Volume 1085, SBE22Delft - Innovations for the Urban Energy Transition: Preparing for the European Renovation Wave, Zuid-Holland, Netherlands, 11 - 13 October 2022, pp.1-8
- VIII. **Impact of Urban Street Network on BIPV Generation Capacity of Buildings**  
Duran A., Akgül Ç., Gürsel Dino I.  
IOP Conference Series: Earth and Environmental Science, Volume 1085, SBE22Delft - Innovations for the Urban Energy Transition: Preparing for the European Renovation Wave, Zuid-Holland, Netherlands, 11 - 13 October 2022, pp.1-8
- IX. **Compiling Open Datasets to Improve Urban Building Energy Models with Occupancy and Layout Data**  
Duran A., İŞERİ O. K., AKGÜL Ç., KALKAN S., GÜRSEL DİNO İ.  
Conference of the Association for ComputerAided Architectural Design Research in Asia (CAADRIA) 2022, Sydney, Australia, 12 April - 14 May 2022, vol.2, pp.669-678
- X. **Building Archetype Characterization Using K-Means Clustering in Urban Building Energy Models**

İşeri O. K., Gürsel Dino İ.

19th International Conference on Computer-Aided Architectural Design Futures, CAAD Futures 2021, Virtual, Online, 16 - 18 July 2021, vol.1465 CCIS, pp.222-236

- XI. **Afet Sonrası ve Kriz Sonrası Geçici Barınma Yerleşimleri için Sayısal Tasarım Araçlarının Kullanımı**  
Akdede N., Ay B. Ö., Gürsel Dino I.  
3rd International Disaster and Resilience Congress, Ankara, Turkey, 05 October 2021
- XII. **Data-driven Analysis of the Impact of Occupants' Preference on Building Performance in Classroom Spaces**  
Duran A., Gürsel Dino I.  
Joint CIB W099 & W123 Annual International Conference 2021, Glasgow, Scotland, 9 - 10 September 2021, pp.245-255
- XIII. **Future Use Framework for Post-Disaster and Post-Conflict Temporary Accommodation Settlements and Units in Turkey**  
Akdede N., Ay B. Ö., Gürsel Dino İ.  
European Network for Housing Research Conference - 2021, Lefkosa, Cyprus (Gkry), 30 August - 02 September 2021, pp.1-8
- XIV. **Artificial Neural Networks to Predict Performance of Classroom Spaces**  
Duran A., Gürsel Dino I.  
Mimarlıkta Sayısal Tasarım Sempozyumu, 28 June 2021, pp.224-233
- XV. **A multidisciplinary approach to address climate-resilience, conservation and comfort in traditional architecture: The PROT3CT example**  
JAHED N., ERSOY S. N., GRIFFITHS N., GÜRSEL DİNO İ., MARINCIONI V., ÖZÇAKIR Ö., RICKABY P., SIRT ÇIPLAK E., WANG K., YILDIRIM ESEN S., et al.  
1st International Conference on Moisture in Buildings 2021 (ICMB21), England, 28 - 29 June 2021
- XVI. **From Streetscape to Data Semantic segmentation for the prediction of outdoor thermal comfort**  
Yazıcıoğlu G., GÜRSEL DİNO İ.  
39th International Conference on Education and Research in Computer Aided Architectural Design in Europe, eCAADe 2021, Novi-Sad, Serbia, 8 - 10 September 2021, vol.1, pp.555-562
- XVII. **Minimizing cooling energy demand of an office building with respect to green roof types and the angle of sun shading elements: A case study in Izmir, Turkey**  
Yazıcıoğlu G., Deniz E., GÜRSEL DİNO İ.  
6th International Project and Construction Management Conference (e-IPCMC2020), 12 - 14 October 2020
- XVIII. **ENERGY DEMAND PREDICTION FOR RESIDENTIAL BUILDINGS AT DIFFERENT CLIMATE CONDITIONS BASED ON DIFFERENT DATA-DRIVEN TECHNIQUES**  
İşeri O. K., GÜRSEL DİNO İ.  
BAUSIM 2020, 23 - 25 September 2020
- XIX. **An exploratory multi-objective retrofit decision-making process**  
Akin Ş., İşeri O. K., Erdogan B., Gürsel Dino I.  
International Symposium of Architecture, Technology and Innovation (ATI), İzmir, Turkey, 26 - 28 August 2020, pp.1-10
- XX. **An Algorithm for Efficient Urban Building Energy Modeling and Simulation**  
İşeri O. K., Gürsel Dino I.  
The Symposium on Simulation for Architecture and Urban Design (SimAUD), Vienna, Austria, 23 - 25 May 2020
- XXI. **Climate Change Impact on Multi-Objective Optimization: A Case Study on Educational Buildings**  
Akin Ş., İşeri O. K., Akgül Ç., Erdoğan B., Gürsel Dino I.  
The Symposium on Simulation for Architecture and Urban Design (SimAUD), Vienna, Austria, 23 - 25 May 2020
- XXII. **Vision-Based Lighting State Detection and Curtain Openness Ratio Prediction**  
Kalfaoğlu E., Gürsel Dino I., İşeri O. K., Akin Ş., Sarı A. E., Erdoğan B., Kalkan S., Alatan A. A.  
The Symposium on Simulation for Architecture and Urban Design (SimAUD), Vienna, Austria, 23 - 25 May 2020
- XXIII. **Early Stage Retrofit Stakeholder Engagement: Enhancing Higher Education Project Success**  
Gooding L., Erdogan B., Gürsel Dino I.

SBE19 Malta International Conference | Sustainability and Resilience, Attard, Malta, 21 - 22 November 2019, pp.1-10

- XXIV. **Video Content Analysis-Based Detection of Occupant Presence for Building Energy Modelling**  
Gürsel Dino I., Kalfaoğlu E., Sarı A. E., Akın Ş., Işeri O. K., Alatan A. A., Kalkan S., Erdoğan B.  
CIB W78: Conference: Advances in ICT in Design, Construction and Management in Architecture, Engineering, Construction and Operations (AECO), Newcastle-Upon-Tyne, United Kingdom, 18 - 20 September 2019
- XXV. **Automated building energy modeling for existing buildings using computer vision**  
Gürsel Dino I., Sarı A. E., Kalfaoğlu E., Akın Ş., Işeri O. K., Kalkan S., Alatan A. A., Erdoğan B.  
CIB W78: Conference: Advances in ICT in Design, Construction and Management in Architecture, Engineering, Construction and Operations (AECO), Newcastle-Upon-Tyne, United Kingdom, 18 - 20 September 2019
- XXVI. **A parametric design method for CFD-supported wind-driven ventilation**  
ABBAS G. M., GÜRSEL DİNO İ.  
IAQVEC 2019, Bari, Italy, 5 - 07 September 2019
- XXVII. **Collective Residential Spaces in Sustainability Development: Turkish Housing Units within Co-Living Understanding**  
Ataman C., Gürsel Dino I.  
Sustainable Built Environment (SBE) Resilient Built Environment for Sustainable Mediterranean Countries Conference, Milan, Italy, 4 - 05 September 2019
- XXVIII. **Computational Design Tools and Education: The Smartgeometry Case**  
Acican Ö., GÜRSEL DİNO İ.  
DRS Learn X Design - Fifth International Conference for Design Education Researchers, 9 - 12 July 2019
- XXIX. **Improving Visual Design Perception by an Integrated Mixed Reality Environment for Performative Architecture**  
Akın Ş., Ergün O., Gürsel Dino I., Sürer E.  
Virtually Real - 7th eCAADe Regional International Symposium, Aalborg, Denmark, 2 - 03 May 2019, pp.1-10
- XXX. **Improving Building Performance of Higher Education Buildings, Involvement of End Users**  
Gooding L., Erdogan B., Gürsel Dino I.  
INTERNATIONAL CIVIL ENGINEERING AND ARCHITECTURE CONFERENCE 2019, Trabzon, Turkey, 17 - 20 April 2019, pp.178-188
- XXXI. **Representations of Performative Architecture in Design Synthesis**  
ATAMAN C., GÜRSEL DİNO İ.  
Materiart, 11 - 12 April 2019
- XXXII. **Constituting an Archive: Documentation as a Tool for the Preservation of the METU Faculty of Architecture**  
SAVAŞ SARGIN A., GÜRSEL DİNO İ.  
3RD RMB AND 16TH DOCOMOMO GERMANY CONFERENCE, Berlin, Germany, 1 - 02 March 2019
- XXXIII. **Constituting an Archive: Documentation as a Tool for the Preservation of the METU Faculty of Architecture**  
Savaş Sargin A., Gürsel Dino I.  
3RD RMB AND 16TH DOCOMOMO GERMANY CONFERENCE, Berlin, Germany, 1 - 02 March 2019, pp.319-331
- XXXIV. **Architectural Design in Virtual Reality and Mixed Reality Environments: A Comparative Analysis**  
Ergün O., Akın Ş., GÜRSEL DİNO İ., SÜRER E.  
26th IEEE Conference on Virtual Reality and 3D User Interfaces (VR), Osaka, Japan, 23 - 27 March 2019, pp.914-915
- XXXV. **Sürdürülebilir Kalkınma Hedeflerinin Yüksek Öğretime Yansıması: Mimarlık Eğitimi Örneği**  
ÇALIKUŞU A. N., GÜRSEL DİNO İ., ÇAKMAKLI A. B.  
4.Ulusal Yapı Kongresi Ve Sergisi, Antalya, Turkey, 6 - 08 December 2018
- XXXVI. **Paylaşımlı Çalışma Mekanları (Coworking Spaces)**  
ERTAN S., GÜRSEL DİNO İ., ÇAKMAKLI A. B.  
4. Ulusal Yapı Kongresi Ve Sergisi, Antalya, Turkey, 6 - 08 December 2018
- XXXVII. **The Computation of Performative Architecture within Integrated Design Process**



ATAMAN C., GÜRSEL DİNO İ.

BEYOND ALL LIMITS 2018: International Congress on Sustainability in Architecture, Planning, and Design, 17 - 19 October 2018

**XXXVIII. An Assessment of the Energy Performance Evaluation within the Form Conception Process**

ATAMAN C., GÜRSEL DİNO İ.

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**XXXIX. Energy consumption of a day-occupied building utilizing phase changing material incorporating gypsum boards**

Akgül Ç., Gürsel Dino İ., Şimşek B.

13th International Congress on Advances in Civil Engineering, İzmir, Turkey, 12 - 14 September 2018

**XL. Performance-Based Façades: Retrofit Strategies for Energy Efficiency and Comfort in Existing Office Buildings**

Jahed N., GÜRSEL DİNO İ.

13th International Congress on Advances in Civil Engineering, 12 - 14 September 2018

**XLII. Approaching Net-Zero Energy Building Through Utilization of Building-Integrated Photovoltaics for Three Cities in Turkey-Preliminary Calculations**

Uygun U., Akgül Ç., Gürsel Dino I., Akinoğlu B. G.

2018 International Conference on Photovoltaic Science and Technologies (PVCon), Ankara, Turkey, 4 - 06 July 2018

**XLII. Approaching Net-Zero Energy Building Through Utilization of Building-Integrated Photovoltaics for Three Cities in Turkey-Preliminary Calculations**

Uygun U., AKGÜL Ç., GÜRSEL DİNO İ., AKINOĞLU B. G.

2018 International Conference on Photovoltaic Science and Technologies (PVCon), 4 - 06 July 2018

**XLIII. An Immersive Design Environment for Performance-Based Architectural Design: A BIM-based Approach**

Akin S., Ergun O., Sürer E., Gürsel Dino İ.

4th EAI International Conference on Smart Objects and Technologies for Social Good, Bologna, Italy, 28 - 30 November 2018, pp.306-307

**XLIV. AN EVOLUTIONARY APPROACH FOR BUILDING ENVELOPE DESIGN WITH PHOTOVOLTAICS-INTEGRATED SHADING DEVICES**

GÜRSEL DİNO İ.

Conference on Computing in Construction, 4 - 07 July 2017

**XLV. Perception Based Design Space Structures for Evolutionary Design Systems**

ABBAS G. M., GÜRSEL DİNO İ.

Generative Art Conference, 15 - 17 December 2016

**XLVI. Computational Design Emergence by Complexity and Morphogenesis**

GÜRSEL DİNO İ., SAKARYALI A.

Generative Art Conference, 15 - 17 December 2016

**XLVII. Net sıfır Enerji ve Su Tüketen Binaların Tasarımında Simülasyon ve Optimizasyon Araçlarının Önemi**

MERAL Ç., GÜRSEL DİNO İ., Yener Celiker Z.

4. Proje ve Yapım Yönetimi Kongresi, Anadolu Üniversitesi, Eskişehir, Turkey, 3 - 05 November 2016, pp.1312-1323

**XLVIII. Enerji Etkin ve Sürdürülebilir Binaların Fotovoltaik ve Yeşil Çatı Entegrasyonunda Çok Objektifli Karar Desteği**

GÜRSEL DİNO İ., MERAL Ç.

4. Proje ve Yapım Yönetimi Kongresi, Anadolu Üniversitesi, Eskişehir, Turkey, 3 - 05 November 2016, pp.1278-1289

**XLIX. A study on different dynamic solar shading control strategies using multi criteria design optimization**

GÜRSEL DİNO İ.

Sustainable Built Environment Conference, 13 - 15 October 2016

- L. **Visual Structuring for Generative Design Search Spaces**  
ABBAS G. M., GÜRSEL DİNO İ.  
CAADence in Architecture, 16 - 17 June 2016
- LI. **Supporting performance data acquisition and analysis for corporate public real estate management**  
GÜRSEL DİNO İ., Sariyildiz S., Stouffs R.  
Int. Conference on Computing in Civil Engineering, Nottingham, United Kingdom, 30 June - 02 July 2010
- LII. **Contextual Ontology Support as External Knowledge Representation for Building Information Modeling**  
GÜRSEL DİNO İ., SARIYILDIZ S., STOUFFS R., AKIN Ö.  
Joining Languages, Cultures and Visions: CAADFutures 2009, Montreal, Canada, 17 - 19 June 2009
- LIII. **Managing Visual Complexity in a Digital Performance Assessment Tool**  
GÜRSEL DİNO İ., STOUFFS R., SARIYILDIZ S.  
Intelligent Computing in Engineering (ICE08), Plymouth, United Kingdom, 2 - 04 July 2008
- LIV. **A digital performance assessment tool for the Dutch Government Building Agency**  
GÜRSEL DİNO İ., STOUFFS R., SARIYILDIZ S., LEEUW R.  
5th International Conference on Innovation in Architecture, Engineering and Construction, Antalya, Turkey, 25 - 28 June 2008
- LV. **A computational framework for integration of performance information during the building lifecycle**  
GÜRSEL DİNO İ., Stouffs R., Sariyildiz S.  
CIB 24th W78 Conference, Maribor, Slovenia, 26 - 29 June 2007
- LVI. **Linking Building Commissioning and Operations and Maintenance Towards an Embedded Commissioning Practice**  
Akin Ö., GÜRSEL DİNO İ.  
Fifth International Conference for Enhanced Building Operations, Pittsburgh, United States Of America, 11 - 13 October 2005
- LVII. **Embedded commissioning for building design**  
Akin Ö., Turkaslan Bulbul T., GÜRSEL DİNO İ., Garrett J., Akinci B., Wang H.  
eWork and eBusiness in Architecture, Engineering and Construction:, İstanbul, Turkey, 8 - 10 September 2004
- LVIII. **Towards domain oriented semi automated model matching for supporting data exchange**  
HONGJUN W., AKINCI B., GARRETT J., AKIN Ö., TURKASLAN BULBUL T., GÜRSEL DİNO İ.  
10th International Conference on Computing in Civil and Building Engineering, Weimar, Germany, 2 - 04 June 2004

## Supported Projects

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- I. Gürsel Dino I, Turan R., Akgül Ç., Göl M., Kalkan S., Taylan O., H2020 Project, LEGOFIT: Adaptable technological solutions based on early design actions for the construction and renovation of Energy Positive Homes, 2023 - 2027
- II. Yerci S., Gürsel Dino I, Yaşa M., Günbaş E. G., TUBITAK Project, Güç Üreten Perovskit Tabanlı Mimari Bileşenlerin Geliştirilmesi, 2023 - 2026
- III. Gürsel Dino İ., Kalkan S., Akgül Ç., Göl M., H2020 Project, UP2030: Urban Planning and design ready for 2030, 2023 - 2026
- IV. UYSAL E., HAREEDY A., Miramirkhani F., YAZAR A., Acartürk A., Erkün Osunluk A. H., KUYMULU M. B., Taşkın B., ULUSOY İ., FİLİZ N., et al., TUBITAK Project, Sustainable Urbanization with Innovative Technologies (SUIT) , 2022 - 2025
- V. Pekiçli M. K., Savaş Sargin A., Erdoğan S. T., Tavukcuoğlu A., Gürsel Dino İ., Ay B. Ö., Erasmus Project, REcube: REthink, REvive, REuse - Transmitting the knowledge for the green regeneration of the European Concrete Heritage, 2021 - 2024
- VI. Gürsel Dino I, Kalkan S., Akgül Ç., Gerçek Kurt D., TUBITAK Project, MAKİNE ÖĞRENMESİ VE SİMÜLASYON

## TABANLI, İKLİM DEĞİŞİKLİĞİNE YÖNELİK KENTSEL BİNA ENERJİ MODELLEMESİ (KBEM) İÇİN ARAÇ GELİŞTİRİLMESİ , 2021 - 2024

- VII. AKGÜL Ç., GÜRSEL DİNO İ., TAMER T., AKKÖSE G., Project Supported by Higher Education Institutions, Türkiye'deki yapı çevrenin iklim değişikliği direncinin haritalanması Enerji tüketimi BIPV enerji üretimi karbon ayak izi ve kullanıcı termal konforu üzerine veri analizi Mapping climate change resilience of Turkish built environment Data analytics on energy consumption BIPV energy generation carbon footprint and occupant thermal comfort, 2021 - 2023
- VIII. GÜRSEL DİNO İ., TÜBİTAK International Bilateral Joint Cooperation Program Project, Bina Enerji Retrofiti İçin Paydaş-Temelli Bir Akıllı Sistem, 2018 - 2020
- IX. SÜRER E., ERGÜN O., GÜRSEL DİNO İ., Project Supported by Higher Education Institutions, Mimarlık Eğitiminde Karma Gerçeklik Etkileşimi ve Ciddi Oyun Uygulaması, 2018 - 2019
- X. GÜRSEL DİNO İ., SÜRER E., AKIN Ş., Project Supported by Higher Education Institutions, Karma Gerçeklik (KG) ile BIM-Temelli Sürdürülebilir Mimari Tasarım Ortamı Geliştirilmesi, 2018 - 2019
- XI. Savaş Sargin A., Gürsel Dino I., Project Supported by Private Organizations in Other Countries, METU Faculty of Architecture Conservation Planning, 2017 - 2019
- XII. GÜRSEL DİNO İ., MERAL Ç., Project Supported by Higher Education Institutions, İklim Değişikliği Bağlamında Bina Tasarım Desteği Geliştirilmesi, 2017 - 2017
- XIII. GÜRSEL DİNO İ., Project Supported by Higher Education Institutions, Performans temelli bina tasarımında bütünlük performans analiz araç ve yöntemlerinin araştırılması, 2013 - 2015

## Activities in Scientific Journals

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- I. Smart and Sustainable Built Environment (SASBE) , Committee Member, 2020 - Continues
- II. Metu Journal Of The Faculty Of Architecture, Committee Member, 2016 - Continues
- III. Mimarlar Odası Dosya, Committee Member, 2018 - 2022

## Memberships / Tasks in Scientific Organizations

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- I. MÜHENDİSLİK ARAŞTIRMA DESTEK GRUBU (MAG), Member of Advisory Board, 2023 - Continues, Turkey

## Scientific Refereeing

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- I. EU Supported Other Project, CETP, Belgium, December 2023
- II. ENGINEERING, CONSTRUCTION AND ARCHITECTURAL MANAGEMENT, SCI Journal, July 2021
- III. COGNITIVE NEURODYNAMICS, Journal Indexed in SCI-E, November 2019
- IV. SUSTAINABLE CITIES AND SOCIETY, Journal Indexed in SCI-E, September 2019
- V. AUTOMATION IN CONSTRUCTION, SCI Journal, September 2019
- VI. APPLIED THERMAL ENGINEERING, Journal Indexed in SCI-E, June 2019
- VII. ENGINEERING CONSTRUCTION AND ARCHITECTURAL MANAGEMENT, Journal Indexed in SCI-E, October 2018

## Tasks In Event Organizations

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- I. Gürsel Dino İ., Sürer E., Immersive and Responsive Environments, Workshop Organization, Ankara, Turkey, Kasım 2018
- II. Gürsel Dino I., Sürer E., Immersive and Responsive Performative Architectural Design in Mixed Reality, Workshop Organization, Lisbon, Portugal, Haziran 2018

- III. Sorgu A., Grsel Dino İ., Aggregated Workshop , Workshop Organization, Ankara, Turkey, Mayıs 2013
- IV. Sorgu A., Grsel Dino İ., Vogler V., Parametric Design Workshop: Design with Light, Workshop Organization, Ankara, Turkey, Kasım 2011

## Mobility Activity

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- I. Erasmus Programme, Staff Mobility, Universidade de Lisboa, Portugal, 2018 - 2018

## Metrics

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Publication: 92  
Citation (WoS): 306  
Citation (Scopus): 544  
H-Index (WoS): 9  
H-Index (Scopus): 12

## Congress and Symposium Activities

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- I. 36th CIB W78 2019 Conference, Attendee, Newcastle-Upon-Tyne, United Kingdom, 2019

## Invited Talks

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- I. Computer vision for performance-based architectural design, Seminar, Yasar University, Turkey, December 2019
- II. Design Computing in Architecture, Seminar, Gazi University, Turkey, October 2019

## Coaching Duties

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## Refereeing Duties

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