

FATİH TOPAK

RES. ASST. PHD

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International Researcher IDs

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Publons / Web Of Science ResearcherID: F-6882-2018

ScopusID: 57202690690

Yoksis Researcher ID: 215098



Learning Knowledge

Post Doctorate 2024 - Continues	Technische Universitaet Wien, The Institute of Architectural Sciences, Austria
Doctorate 2016 - 2023	Middle East Technical University, Faculty of Architecture, Department of Architecture, Turkey
Postgraduate 2013 - 2016	Middle East Technical University, Faculty of Architecture, Department of Architecture, Turkey
Undergraduate 2009 - 2013	Middle East Technical University, Faculty of Architecture, Department of Architecture, Turkey

Foreign Languages

English, C2 Mastery

German, A1 Beginner

Certificates, Courses and Trainings

Data Analysis, PH526x - Using Python for Research, Harvard University & edX, 2022

Environment and Sustainability, Summer School on Energy Efficiency in Buildings, Beuth Hochschule für Technik Berlin, 2018

Dissertations

Doctorate, Leveraging Divergences: Building Control, Personal Comfort and Indoor Climate, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2023

Postgraduate, Evaluation of Bluetooth Low Energy Technology for Indoor Localization in Built Environments, Middle East Technical University, Faculty of Architecture, Department of Architecture, 2016

Academic Titles / Tasks

Research Assistant
2014 - Continues

Middle East Technical University, Faculty of Architecture, Department of
Architecture

Researcher
2021 - 2022

The Pennsylvania State University, College of Engineering, Department of
Architectural Engineering

Supported Projects

1. TANYER A. M., AY M. B., KIZILKAYA ÖKSÜZ N., TOPAK F., PEKERİÇLİ M. K., Project Supported by Higher Education Institutions, Giyilebilir Teknolojiler Yardımıyla Şantiyedeki Proje Ekibinin Performansının Belirlenmesi, 2017 - 2020

Awards

1. METU Graduate Thesis of the Year Award, Metu Graduate School Of Natural And Applied Sciences, June 2024
2. Topak F., Scientific Publication Award (Bilimsel Yayın Ödülü), Odtü Geliştirme Vakfı, December 2023
3. Topak F., Scientific Publication Award (Bilimsel Yayın Ödülü) , Odtü Geliştirme Vakfı, September 2023
4. Topak F., International Scientific Publication Incentive Award (Yayın Teşvik Ödülü), Tubitak, November 2018
5. Topak F., Scientific Publication Award (Bilimsel Yayın Ödülü), Odtü Geliştirme Vakfı, September 2018

Scholarships

Visiting Scholar Fellowship for PhD Research, TUBITAK, 2021 - 2022

Scholarship for Summer School on Energy Efficiency, Official Institutions of Foreign Countries, 2018 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

1. **The role of user controls with respect to indoor environmental quality: From evidence to standards**
Berger C., Mahdavi A., Ampatzi E., Bandurski K., Hellwig R. T., Schweiker M., TOPAK F., Zgank M.
Journal of Building Engineering, vol.76, 2023 (SCI-Expanded)
2. **Collective comfort optimization in multi-occupancy environments by leveraging personal comfort models and thermal distribution patterns**
Topak F., Pavlak G. S., Pekeriçli M. K., Wang J., Jazizadeh F.
BUILDING AND ENVIRONMENT, vol.239, 2023 (SCI-Expanded)
3. **Technological Viability Assessment of Bluetooth Low Energy Technology for Indoor Localization**
Topak F., Pekeriçli M. K., Tanyer A. M.
Journal of Computing in Civil Engineering, vol.32, no.5, 2018 (SCI-Expanded)

Articles Published in Other Journals

1. **Collaborative building control: a conceptual mixed-initiative framework**
Topak F., Pekeriçli M. K.
Intelligent Buildings International, vol.14, no.4, pp.487-498, 2022 (ESCI)
2. **Transformation of the Interface: Future Human-Building Interactions**
Topak F., Pekeriçli M. K.
Grid - architecture, planning and design journal (Online), vol.4, no.1, pp.38-52, 2021 (Peer-Reviewed Journal)

3. Sustainable construction in Turkish higher education context

Topak F., Tokdemir O. B., Pekerli M. K., Tanyer A. M.

Journal of Construction Engineering, Management and Innovation, vol.2, pp.40-47, 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

1. **Bina Performans Optimizasyonu ve Bina Kullanıcı Konforunun Artırılması için Takip Kavramlarının İncelenmesi**
Uçak E., Topak F., Pekerli M. K.
4.Ulusal Yapı Fiziği ve Çevre Kontrolü Kongresi, İstanbul, Turkey, 2 - 03 May 2024, pp.1-10
2. **Yapı Tasarımı ve İşletiminde Bina Kullanıcılarının Dikkate Alınması: Türkiye Bağlamı**
Topak F.
4.Ulusal Yapı Fiziği ve Çevre Kontrolü Kongresi, İstanbul, Turkey, 2 - 03 May 2024, pp.1-8
3. **Accounting for occupants in current building design and operation practice**
Hellwig R. T., Gauthier S., Mino-Rodriguez ., Syndicus M., Markovic R., Amanowicz Ł., André M., Arpan L., Azar E., Balazs R., et al.
CIBSE Technical Symposium 2024 Fit for 2050 - Delivering buildings and defining performance for a net zero built environment, Cardiff, England, 11 - 12 April 2024, pp.1-8
4. **Analysis of Thermal Distribution Patterns in Multi-Occupancy Environments**
Topak F., Pavlak G. S., Pekerli M. K., Wang J.
ASHRAE 2023 Annual Conference, Florida, United States Of America, 24 - 28 June 2023, vol.129, pp.445-452
5. **Energy Efficiency and Comfort Optimization in Shared Indoor Spaces**
TOPAK F., PAVLAK G. S., PEKERİÇLİ M. K., WANG J.
Next Built - International Conference on Challenges for the Next Generation Built Environment, Bologna, Italy, 13 May 2022
6. **Towards Using Human-Computer Interaction Research for Advancing Intelligent Built Environments: A Review**
Topak F., Pekerli M. K.
6th international Project and Construction Management Conference (IPCMC2020), 12 - 14 November 2020, pp.835-843
7. **Human-Building Interactions in Intelligent Built Environments**
Topak F., Pekerli M. K., Tanyer A. M.
II. International Conference and Exhibition on Digital Transformation & Smart Systems - DTSS 2019, Ankara, Turkey, 23 - 25 October 2019, pp.89-92
8. **Turkish Architectural and Civil Engineering Education within the Scope of Sustainable Construction**
Topak F., Tokdemir O. B., Pekerli M. K., Tanyer A. M.
5. International Project and Construction Management Conference (IPCMC), Girne, Cyprus (Kktc), 16 - 18 November 2018, pp.200-208
9. **Integration of Fire Vulnerability and Indoor Localization in Built Environments**
Kızılkaya Öksüz N., Topak F., Pekerli M. K., Tanyer A. M.
MSTAS 2017 - 11th Computational Design in Architecture National Symposium, Ankara, Turkey, 14 - 15 June 2017
10. **Yapılı Çevre İçin Kapalı Alanlarda Konum Belirleme Kullanım Potansiyellerinin İncelenmesi**
Topak F., Pekerli M. K., Tanyer A. M.
3. Ulusal Yapı Kongresi, Ankara, Turkey, 25 - 26 November 2016, pp.181-192
11. **Kapalı Alanlarda Konum Bulma Teknolojilerinin Yapılı Çevre için Değerlendirilmesi**
Topak F., Pekerli M. K., Tanyer A. M.
4. Proje ve Yapım Yönetimi Kongresi, Eskişehir, Turkey, 3 - 05 November 2016, pp.831-842
12. **An Assessment of Bluetooth Low Energy Technology for Indoor Localization**
Topak F., Pekerli M. K., Tanyer A. M.
CIB W78: 33rd International IT in Construction Conference, Brisbane, Australia, 31 October - 02 November 2016

13. **A Bluetooth Low Energy Based Framework Approach for Real time Occupancy Detection**
Topak F., Pekerikli M. K., Tanyer A. M.
Sustainable Built Environments 2016 (SBE16), İstanbul, Turkey, 13 - 15 October 2016, pp.716-725
14. **A Review of Indoor Localization Use Cases in the Built Environment**
Topak F., Pekerikli M. K., Tanyer A. M.
International Conference on Advanced Technology Science (ICAT'16), Konya, Turkey, 1 - 03 September 2016, pp.967-972

Courses

ARCHITECTURAL DESIGN II, Undergraduate, 2023 - 2024
ARCHITECTURAL DESIGN I, Undergraduate, 2023 - 2024
Structural Design in Architecture II, Undergraduate, 2020 - 2021, 2019 - 2020, 2016 - 2017, 2015 - 2016, 2014 - 2015
Analysis of Building Envelope Design Through Case Studies, Undergraduate, 2020 - 2021
Building Detail Modeling, Undergraduate, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Digital Media in Architecture, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2014 - 2015
Environmental and Building Systems, Undergraduate, 2019 - 2020
Building Construction Technologies, Undergraduate, 2018 - 2019
Building Materials Technologies, Undergraduate, 2018 - 2019
Structural Design in Architecture I, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015

Scientific Refereeing

BUILDING AND ENVIRONMENT, SCI Journal, May 2024
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, February 2024
INTELLIGENT BUILDINGS INTERNATIONAL, Journal Indexed in ESCI, January 2024
METU Journal Of The Faculty Of Architecture, Journal Indexed in AHCI, January 2024
METU Journal Of The Faculty Of Architecture , Journal Indexed in AHCI, December 2023
BUILDING AND ENVIRONMENT, SCI Journal, May 2023
Healthy Buildings Europe 2023, Conference Paper (Full Text), February 2023
ENERGY SUSTAINABILITY AND SOCIETY, SCI Journal, April 2021
The 4th International Conference on Computer Science and Application Engineering, Conference Paper (Full Text), July 2020

Scientific Research / Working Group Memberships

Swice - Sustainable Well-Being For The Individual And The Collectivity In The Energy Transition , SFOE - Swiss Energy Research for the Energy Transition, Switzerland, <https://sweet-swice.ch/>, 2024 - Continues
Annex 87 - Energy And Indoor Environmental Quality Performance Of Personalised Environmental Control Systems, International Energy Agency - Energy in Buildings and Communities Programme (IEA EBC), United States Of America, <https://annex87.iea-ebc.org/>, 2022 - Continues
Annex 79 - Occupant-Centric Building Design And Operation, International Energy Agency - Energy in Buildings and Communities Programme (IEA EBC), United States Of America, <https://annex79.iea-ebc.org/>, 2021 - 2023

Metrics

Publication: 20
Citation (WoS): 51

Citation (Scopus): 57

H-Index (WoS): 3

H-Index (Scopus): 3

Congress and Symposium Activities

33rd International CIB W78 IT in Construction Conference, Attendee, Brisbane, Australia, 2016

Research Areas

Architecture, Building Information, Engineering and Technology