

# Sadık Yiğit

## Experience

- 07/2021 – Present**                      **Isik University – The Faculty of Engineering**  
Researcher - Assistant Professor (Civil Engineering Department)
- 11/2019 – 07/2021**                      **The University of Sydney**  
Postdoctoral Researcher (School of Civil Engineering)  
Research Title: Building energy optimization using machine learning methods.
- 09/2018 – 10/2019**                      **Istanbul Kultur University – The Faculty of Engineering**  
Assistant Professor (Civil Engineering Department)
- 02/2010 – 09/2018**                      **Istanbul Kultur University – The Faculty of Engineering**  
Research Assistant (Civil Engineering Department)  
Teaching Assistant (Construction Project Management, Building Cost Analysis)

## Education

- Ph.D.**                                      **September 2012 – March 2018**  
Bogazici University – Civil Engineering – Project Management  
Istanbul/TURKEY  
(A simulation-based optimization method for building thermal design)
- M.Sc.**                                      **September 2010 – June 2012**  
Istanbul Kultur University – Project Management  
Istanbul/TURKEY  
(Wind conditions in Istanbul and its potential effects on construction works)
- B.Sc.**                                      **September 2004 – June 2008**  
Istanbul Kultur University – Department of Civil Engineering  
Istanbul/TURKEY

## Articles published in refereed international journals (SCI & SSCI & Arts and Humanities)

1. **\*Yigit, S.** (2021). A Machine-Learning-Based Method for Thermal Design Optimization of Residential Buildings in Highly Urbanized Areas of Turkey. *Journal of Building Engineering*, 102225.
2. Kaya, E. S., Aksel, M., **Yigit, S.**, & \*Acikara, T. (2020, December). A Numerical Study on the Effect of Vent/Wall Area Ratio on Trombe Wall Thermal Performance. In *Proceedings of the Institution of Civil Engineers-Engineering Sustainability* (pp. 1-11). Thomas Telford Ltd.
3. \*Caglayan, S., **Yigit, S.**, Ozorhon, B., & Ozcan-Deniz, G. (2020, January). A genetic algorithm-based envelope design optimisation for residential buildings. In *Proceedings of the Institution of Civil Engineers-Engineering Sustainability* (Vol. 173, No. 6, pp. 280-290). Thomas Telford Ltd.
4. \*Caglayan, S., Ozorhon, B., Deniz, G. Ö., & **Yigit, S.** (2020). A Life Cycle Costing Approach to Determine the Optimum Insulation Thickness of Existing buildings. *Isı Bilimi ve Tekniği Dergisi*, 40(1), 1-14.

5. \***Yigit, S.**, & Ozorhon, B. (2018). A simulation-based optimization method for designing energy efficient buildings. *Energy and Buildings*, 178, 216-227.
6. **Yigit, S.**, & \*Özorhon, B. (2017). Altyapı Varlıkları Yönetimi: İstanbul Atatürk Havalimanı Terminal Binası Vaka Çalışması. *Teknik Dergi*, 28(2), 7883-7888. (Technical Note)

#### **Papers presented in international & national conferences and published in proceedings**

1. **S. Yigit**, S. Çağlayan, B. Özorhon, The 3rd of annual World Multidisciplinary Civil Engineering - Architecture - Urban Planning Symposium, "Evaluation of Optimum Building Envelope Materials in Different Climate Regions of Turkey", Prague, 18-22 June 2018
2. **S. Yigit**, B. Özorhon, 11th International Congress on Advances in Civil Engineering Proceedings Book "Infrastructure Asset Management: Case of Istanbul Atatürk Airport Terminal Building", Istanbul, Turkey, 21-25 October 2014.
3. S.Ü. Dikmen, **S. Yigit**, M. Aksel, 6th International Conference on Construction in the 21st Century "Construction Challenges in the new Decade" Symposium "CITC-IV" Proceedings Book "Effects of Wind in the Construction of Highrise Buildings", 693-700 pp., Kuala Lumpur, Malaysia, July 2011.
4. S.Ü. Dikmen, **S. Yigit**, M. Aksel, M. Sönmez, B. Şener, (2011) "Yüksek Yapı Çalışmalarında Bir Verimlilik Faktörü: Rüzgar", İMO 6. İnşaat Yönetimi Kongresi, Bursa, 25 – 27 November.
5. S.Ü. Dikmen, **S. Yigit**, F.S. Tüzer (2011) "4857 Sayılı Yasa ve İnşaat Şantiyelerinde İş Sağlığı ve Güvenliği Yaklaşımları", 3. İşçi Sağlığı ve İş Güvenliği Sempozyumu, Çanakkale, 21 – 23 October.
6. S.Ü. Dikmen, M. Aksel, **S. Yigit**, 6th ARCHENG-2010 International Architecture and Engineering Symposium, "CENG'10" Proceedings Books "A Study of The Effects of Tall Buildings on The Pedestrian Wind Comfort In Istanbul", 56-61 pp., Lefke, NCTR, November 2010.
7. S.Ü. Dikmen, **S. Yigit**, 6th ARCHENG-2010 International Architecture and Engineering Symposium "CENG'10" Proceedings Book "A Survey of Occupational Health And Safety Applications at Construction Sites In Istanbul", 51-55 pp., Lefke, NCTR, November 2010.
8. E.D. Birer, S.Ü. Dikmen, **S. Yigit**, International Sustainable Buildings Symposium "ISBS" Proceedings Book "İlköğretim Binalarında Sürdürülebilir Tasarım İlkeleri", 841-845 pp., Ankara, Turkey, May 2010.

#### **Other Peer Reviewed Articles**

1. Yigit, S., & Ozorhon, B. (2021). Effectiveness of standalone simulation-based optimization software in optimizing the life cycle cost of residential buildings. *Journal of Construction Engineering*, 4(4), 210-228.
2. \*S.Ü. Dikmen, F.S. Tüzer, **S. Yigit**, "4857 Sayılı Yasa ve İnşaat Şantiyelerinde İş Sağlığı ve Güvenliği Yaklaşımları", TMH – Türkiye Mühendislik Haberleri, Vol. 469
3. \*S.Ü. Dikmen, **S. Yigit**, M. Aksel, M. Sönmez, B. Şener, (2012) "A Productivity Factor in High Rise Construction: Wind", NWSA – Engineering Sciences, Vol. 7, No.1, pp. 84 – 95