Assoc. Prof. Can Baran Aktaş

Personal Information

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Biography

Dr. Aktaş completed his undergraduate and graduate studies within the Department of Civil Engineering at Middle East Technical University. He continued his doctoral studies at University of Pittsburgh where he graduated from in 2011. Following his graduation, he joined University of New Haven as an Assistant Professor within the Department of Civil and Environmental Engineering and coordinated the Sustainability Studies program during his time there. In 2018, he was promoted to Associate Professor and granted tenure at the University. Soon after he returned to Turkey and joined TED University.

Dr. Aktaş's expertise lies in sustainable engineering design. He has authored many publications on resilient and critical infrastructure design, integrated renewable energy systems, life cycle assessments, and Design for Environment. You can find a partial list of related publications from his <u>Google Scholar page</u>. He has taught courses on sustainability, engineering design, and construction management as well as engineering statistics, building materials, and engineering ethics. In addition to his full-time appointment at TED University, he continues to hold an adjunct faculty position at University of New Haven in the U.S.

Dr. Aktaş has served on the study committee for CT Academy of Science and Engineering, on technical evaluation committees of international conferences in his field, and continues to serve as a reviewer for several prominent journals related to his field of expertise. One of the articles he published was awarded the "Most Cited Paper Award 2019" by Resources, Conservation and Recycling, a prestigious journal in the field.

Education Information

Doctorate, University of Pittsburgh, Faculty of Engineering / Department of Civil and Environmental Engineering, United States Of America 2007 - 2011

Postgraduate, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 2005 - 2007

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 2000 - 2005

Foreign Languages

English, C2 Mastery

Research Areas

Environmental Risk Assessment, Materials in Civil Engineering, Concrete Technology, Building Components and Materials, Applications of Insulation Materials, Informatics in Construction Management, Construction Management, Project and Construction Management, Statistical Analysis and Applications

Academic Titles / Tasks

Associate Professor, TED University, Faculty of Engineering, Department of Civil Engineering, 2020 - Continues Assistant Professor, TED University, Faculty of Engineering, Department of Civil Engineering, 2018 - 2020 Associate Professor, University of New Haven, Mühendislik Fakültesi, Civil And Environmental Engineering, 2018 - 2018 Assistant Professor, University of New Haven, Mühendislik Fakültesi, Civil And Environmental Engineering, 2012 - 2018 Research Assistant, University of Pittsburgh, Mühendislik Fakültesi, Civil And Environmental Engineering, 2007 - 2011 Research Assistant, Middle East Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2005 - 2007

Academic and Administrative Experience

Sustainable TEDU Committee Member, TED University, Faculty of Engineering, Department of Civil Engineering, 2021 - Continues

Vice Dean, TED University, Faculty Of Engineering, Department Of Civil Engineering, 2023 - 2023

Assistant Director of the Institute, TED University, Graduate School, 2023 - 2023

Civil Engineering Graduate Program Director, TED University, Faculty Of Engineering, Department Of Civil Engineering, 2021 - 2023

Courses

Master's Thesis II, Postgraduate

Materials Science, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2018 - 2019

Sustainable Construction, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Introduction to Probability and Statistics for Engineers, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Master's Thesis I, Postgraduate, 2022 - 2023

Sustainable Construction, Postgraduate, 2021 - 2022

Special Topics in Civil Engineering, Postgraduate, 2022 - 2023

Construction Engineering and Management, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Practical Aspects of Construction Management, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Practical Aspects of Construction Manage, Postgraduate, 2021 - 2022

Pre-thesis Seminar, Postgraduate, 2022 - 2023

Summer Practice I, Undergraduate, 2018 - 2019

Pre-thesis seminar, Postgraduate, 2018 - 2019

Research Methods and Academic Publication Ethics, Postgraduate, 2017 - 2018

Advising Theses

Aktaş C. B., ULTRA-HIGH PERFORMANCE CONCRETE (UHPC): INNOVATIONS, APPLICATIONS, AND PATHWAYS TO SUSTAINABILITY, Postgraduate, K.GÜNEŞER(Student), 2024 Aktaş C. B., An Investigation of the Most Prevalent Sustainability Initiatives at Universities, Postgraduate, K.Ehab(Student), 2023 Aktaş C. B., Yaman I. Ö., Estimation of Lightweight Expanded Clay Concrete's Compressive Strength by Using Meta-Analysis, Postgraduate, İ.Uslu(Student), 2023 Aktaş C. B., Yaman İ. Ö., Physical and mechanical properties of lightweight expanded clay aggregate concrete, Postgraduate, O.UYSAL(Student), 2023 Aktaş C. B., BIM in vonstruction project planning, building sustainability, and its current state in turkey, Postgraduate, S.Massum(Student), 2020 Aktaş C. B., CFD Simulation and Analysis of Energy Consumption in Residential Buildings in Northeastern U.S., Postgraduate, M.Golbazi(Student), 2017 Aktaş C. B., Evaluating the Life Cycle Environmental and Economic Performance of Biochar Compared with Activated Carbon, Postgraduate, H.Adnan(Student), 2016

Taught Courses And Trainings

Aktaş C. B., Circular Economy with Examples for the Construction Industry, 2022 - 2022 Aktaş C. B., Ted Ankara Koleji - Meslekler Günü Etkinliği - Meslek Tanıtımı, 2022 - 2022 Aktaş C. B., Doktora Programı Seminerler Dizisi - İnşaat Mühendisliği ve Sürdürülebilirliğin Kesişiminde..., 2022 - 2022 Aktaş C. B., TED Bodrum Koleji - Meslekler Günü Sunumu, 2021 - 2021 Aktaş C. B., Beton Yol Semineri / Beton Yol Yaşam Döngüsü Maliyet Analizi, 2020 - 2020 Aktaş C. B., İl Genel Meclis Başkanları Eğitim Semineri – Konuşmacı, 2019 - 2019 Aktaş C. B., İnşaat Mühendisliği Meslek Tanıtımı, 2019 - 2019

Designed Courses And Trainings

Aktaş C. B., Circular Economy with Examples for the Construction Industry, June 2022 Aktaş C. B., Doktora Programı Seminerler Dizisi - İnşaat Mühendisliği ve Sürdürülebilirliğin Kesişiminde..., March 2022 Aktaş C. B., İnşaat Mühendisliği Meslek Tanıtımı, May 2020

Designed Programs

Aktaş C. B., Doctorate, Ph.D. in Civil Engineering, 2022 - Continues Aktaş C. B., Postgraduate, İnşaat Mühendisliği Yüksek Lisans Programı, 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. A survey of the most prevalent sustainability initiatives at universities
 Farag K., Aktaş C. B.
 International Journal of Sustainability in Higher Education, vol.25, no.8, pp.1581-1609, 2024 (SSCI)
- II. Environmental Assessment of Calcium Sulfoaluminate Cement: A Monte Carlo Simulation in an Industrial Symbiosis Framework Tanguler-Bayramtan M., Aktaş C. B., YAMAN İ. Ö. Buildings, vol.14, no.11, 2024 (SCI-Expanded)
- III. Dematerialization of Concrete: Meta-Analysis of Lightweight Expanded Clay Concrete for

	Compressive Strength
	Uslu İ., Uysal O., Aktaş C. B., Chang B., YAMAN İ. Ö.
	Sustainability (Switzerland), vol.16, no.15, 2024 (SCI-Expanded)
IV.	Physical and Mechanical Properties of Lightweight Expanded Clay Aggregate Concrete
	Uysal O., Uslu İ., Aktaş C. B., Chang B., YAMAN İ. Ö.
	Buildings, vol.14, no.6, 2024 (SCI-Expanded)
V.	Willingness to pay for green buildings: A survey on students' perception in higher education
	Golbazi M., El Danaf A., Aktaș C. B.
	ENERGY AND BUILDINGS, vol.216, 2020 (SCI-Expanded)
VI.	Leed certification and patient wellbeing in green healthcare facilities
	Golbazi M., Aktaş C. B.
	Journal of Green Building, vol.15, no.4, pp.3-18, 2020 (AHCI)
VII.	Embedding sustainability in lean six sigma efforts
	Erdil N. O., Aktaş C. B., Arani O. M.
	JOURNAL OF CLEANER PRODUCTION, vol.198, pp.520-529, 2018 (SCI-Expanded)
VIII.	Prospects for meeting the corporate average fuel economy standards in the US
	Zielinski J., Andreucci R., Rajagopalan N., Aktaş C. B.
	RESOURCES CONSERVATION AND RECYCLING, vol.136, pp.466-472, 2018 (SCI-Expanded)
IX.	Energy efficiency of residential buildings in the US: Improvement potential beyond IECC
	Golbazi M., Aktaş C. B.
	BUILDING AND ENVIRONMENT, vol.142, pp.278-287, 2018 (SCI-Expanded)
X.	Application of GIS to Prioritize Brownfield Sites for Green Building Construction Based on LEED
	Criteria
	Aktaş C. B., Bartholomew P., Church S.
	JOURNAL OF URBAN PLANNING AND DEVELOPMENT, vol.143, no.3, 2017 (SCI-Expanded)
XI.	Life cycle environmental and economic performance of biochar compared with activated carbon: A
	meta-analysis
	Alhashimi H. A., Aktaş C. B.
	RESOURCES CONSERVATION AND RECYCLING, vol.118, pp.13-26, 2017 (SCI-Expanded)
XII.	Vulnerability of coastal Connecticut to sea level rise: land inundation and impacts to residential
	property
	Andreucci R., Aktaş C. B.
	CIVIL ENGINEERING AND ENVIRONMENTAL SYSTEMS, vol.34, no.2, pp.89-103, 2017 (SCI-Expanded)
XIII.	Economic feasibility of campus-wide photovoltaic systems in New England
	Lee J., Chang B., Aktaş C. B., Gorthala R.
	RENEWABLE ENERGY, vol.99, pp.452-464, 2016 (SCI-Expanded)
XIV.	Developing a university-wide course on sustainability: a critical evaluation of planning and
	implementation
	- Aktaş C. B., Whelan R., Stoffer H., Todd E., Kern C. L.
	JOURNAL OF CLEANER PRODUCTION, vol.106, pp.216-221, 2015 (SCI-Expanded)
XV.	Reflections on interdisciplinary sustainability research with undergraduate students
	Aktaş C. B.
	INTERNATIONAL JOURNAL OF SUSTAINABILITY IN HIGHER EDUCATION, vol.16, no.3, pp.354-366, 2015 (SSCI)
XVI.	Online Teaching of Engineering Statistics: A Comparative Case Study
	Aktaş C. B., Omurtag Y.
	INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION, vol.29, no.2, pp.504-509, 2013 (SCI-Expanded)
XVII.	Impact of lifetime on US residential building LCA results
	Aktaş C. B., Bilec M. M.
	INTERNATIONAL JOURNAL OF LIFE CYCLE ASSESSMENT, vol.17, no.3, pp.337-349, 2012 (SCI-Expanded)
XVIII.	Service life prediction of residential interior finishes for life cycle assessment
	Aktaş C. B., Bilec M. M.

INTERNATIONAL JOURNAL OF LIFE CYCLE ASSESSMENT, vol.17, no.3, pp.362-371, 2012 (SCI-Expanded)

XIX. CRITICAL SUCCESS FACTORS TO LIMIT CONSTRUCTABILITY ISSUES ON A NET-ZERO ENERGY HOME Aktaş C. B., Ryan K. C., Sweriduk M. E., Bilec M. M. JOURNAL OF GREEN BUILDING, vol.7, no.4, pp.100-115, 2012 (AHCI)

Articles Published in Other Journals

- I. A review of international eco-industrial parks for implementation success in the United States Perrucci D. V., Aktaş C. B., Sorentino J., Akanbi H., Curabba J. City and Environment Interactions, vol.16, 2022 (ESCI)
 II. Ulusal enerji tüketiminin değerlendirmesi ve istatistiksel tahmini
- Aktaş C. B. Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.8, no.4, pp.1422-1431, 2019
- III. Yol Üstyapısı Yaşam Döngüsü Değerlendirmeleri: Beton Yol Örneği Aktaş C. B., Yaman İ. Ö. İstanbul Bülten, vol.153, pp.5-10, 2019
- IV. Türk Konut Stoğu Özellikleri: Kullanılan Modellerin Standartlaştırılmasına Yönelik Bir Çalışma Aktaş C. B.

Sanat Yazıları, vol.40, pp.15-27, 2019

- V. Global Cement Production: Outlook on Energy Consumption and Greenhouse Gas Emissions Aktaş C. B., Yaman İ. Ö.
 Cement and Concrete World, vol.119, pp.56-68, 2016
- VI. Life Cycle Assessment: the Method and its Development Aktaş C. B., Yaman İ. Ö.
 Cement and Concrete World, vol.110, pp.31-39, 2014

Books & Book Chapters

- İnşaat Sektöründe Sürdürülebilirlik: Gereksinimler ve Çözüm Önerileri Aktaş C. B.
 in: İnşaat Sektöründe Sürdürülebilirlik: Gereksinimler ve Çözüm Önerileri, , Editor, 2023
- Handbook of Sustainability Science in the Future Aktaş C. B. (Member Of Editors Board) Springer, London/Berlin , London, 2022
- III. Fostering Circular Economy in Urban Areas
 Aktaş K. O., Aktaş C. B.
 in: Sustainable Development Goals, Climate Change, and Digitalization Challenges in Planning, RA Castanho, Editor, Routledge, London/New York, Pennsylvania, pp.165-178, 2022

IV. Importance of Building Energy Efficiency Towards National and Regional Energy Targets Aktaş C. B.

in: Towards a Sustainable Future - Life Cycle Management Challenges and Prospects, Zbigniew Stanislaw Klos, Joanna Kalkowska, Jędrzej Kasprzak, Editor, Springer Nature, New York, pp.155-163, 2022

V. Dematerialization: Needs and Challenges

Aktaş C. B.

in: Handbook of Sustainability Science in the Future, WL Filho,AM Azul,F Doni,AL Salvia, Editor, Springer Nature, New York, pp.1-13, 2022

Refereed Congress / Symposium Publications in Proceedings

I.	Genleştirilmiş Kil Agregalı Hafif Betonun Mekanik Özelliklerinin Meta-Analiz ile İncelenmesi Uslu I., Aktaş C. B., Yaman I. Ö.
II.	Türkiye İnşaat Mühendisliği 18. Teknik Kongre ve Sergisi, İstanbul, Turkey, 7 - 09 November 2022, pp.1-6 Genleştirilmiş Kil Agregalı Taşıyıcı Hafif Betonun Mekanik Özelliklerinin İncelenmesi : Bir Meta-
11.	Analiz Çalışması
	Uslu İ., Aktaş C. B., Yaman İ. Ö.
	İZÜ FEN VE MÜHENDİSLİK BİLİMLERİ LİSANSÜSTÜ ÖĞRENCİ KONGRESİ, İstanbul, Turkey, 4 - 05 June 2022
III.	The Importance of Virtual Reality and Augmented Reality for the AEC Industry
	Beral H., Aktaş C. B.
	4th International Conference on Contemporary Architecture and Urbanism, Antalya, Turkey, 20 - 21 May 2020,
	pp.92
IV.	Patterns in the Development of Drones in the Construction Industry and Forecasts Regarding
	Turkey
	Al-Zariqi A., Farag K., Güryuva B., Aktaş C. B.
	4th International Conference on Contemporary Architecture and Urbanism, Antalya, Turkey, 20 - 21 May 2020,
	pp.92
V.	Virtual Reality and Augmented Reality Integration into AEC Industry
	Beral H., Aktaş C. B.
	International Congress of Engineering and Natural Sciences (ICENSS), Ankara, Turkey, 7 - 09 May 2021, pp.1-6
VI.	Quantifying Benefits of BIM for Quantity Takeoff: A Comparative Study
	Yörük K. B., Aktaş C. B. International Congress of Engineering and Natural Sciences (ICENSS), Ankara, Turkey, 7 - 09 May 2021, pp.1-6
VII.	Trends in the Deployment of Drones in the Construction Industry
V 11.	Al-Zariqi A., Farag K., Güryuva B., Aktaş C. B.
	International Congress of Engineering and Natural Sciences (ICENSS), Ankara, Turkey, 7 - 09 May 2021, pp.1-6
VIII.	Augmented Reality and Drone Usage in Construction Industry
	Dursun T., Aksu L., Ülkü B., Önal D., Aktaş C. B.
	International Congress of Engineering and Natural Sciences (ICENSS), Ankara, Turkey, 7 - 09 May 2021
IX.	Yaşam Döngüsü Değerlendirmeleri – Yol Altyapısı Üzerine Örnekler
	Aktaş C. B.
	Ankara, Turkey
Х.	Presence of Sustainability in Preschool Curriculum
	Arda Ö., Aktaş C. B.
	7th International Conference on Sustainable Development, 4 - 05 September 2019
XI.	Influence of Emotional Intelligence in Construction Management
	Uysal O., Şen A. C., Güryuva B., Aktaş C. B.
VII	International Civil Engineering and Architecture Conference, 17 - 20 April 2019 Turkey's Changing Infrastructure Need
XII.	Altay A. E., Şimşek Ç., Bingöl S. C., Aktaş C. B.
	International Civil Engineering and Architecture Conference, 17 - 20 April 2019
XIII.	Role of Building Information Modeling in the Future of Construction Management
	Boyacılar M. T., Mısırlı T. E., Uslu İ., Aktaş C. B.
	International Civil Engineering and Architecture Conference, 17 - 20 April 2019
XIV.	Risk Assessment Techniques Applicable in Construction Management
	Şahin G., Aktaş C. B.
	International Civil Engineering and Architecture Conference, 17 - 20 April 2019
XV.	Water Availability Projections for Ankara: Population Rise and Changing Precipitation Patterns
	Uslu İ., Aktaş C. B.
	International Civil Engineering and Architecture Conference, 17 - 20 April 2019
XVI.	Analysis on the effects of exterior openings on residential building energy consumption in Northeast
	U.S. climate conditions

	Golbazi M., Aktaș C. B.
	4th Biennial Residential Building Design and Construction Conference, 28 February - 01 March 2018
XVII.	Economic evaluation of wind energy investment in Texas
	Chang B., Starcher K., Aktaş C. B., Chen G., Egilmez G.
	67th Annual Conference and Expo of the Institute of Industrial Engineers 2017, Pennsylvania, United States Of
	America, 20 - 23 May 2017, pp.1601-1606
XVIII.	Assessing the Resilience of LEED Certified Green Buildings
	Champagne C. L., Aktaș C. B.
	International Conference on Sustainable Design, Engineering and Construction (ICSDEC), Arizona, United States Of
	America, 18 - 20 May 2016, vol.145, pp.380-387
XIX.	Resilience of Rail Infrastructure in the US Northeast Corridor
	Delgado D., Aktaș C. B.
	International Conference on Sustainable Design, Engineering and Construction (ICSDEC), Arizona, United States Of
	America, 18 - 20 May 2016, vol.145, pp.356-363
XX.	Analysis of Credits Earned by LEED Healthcare Certified Facilities
	Golbazi M., Aktaș C. B.
	International Conference on Sustainable Design, Engineering and Construction (ICSDEC), Arizona, United States Of
	America, 18 - 20 May 2016, vol.145, pp.203-210
XXI.	Sustainable Temporary Housing: Global Trends and Outlook
	Perrucci D. V., Vazquez B. A., Aktaş C. B.
	International Conference on Sustainable Design, Engineering and Construction (ICSDEC), Arizona, United States Of
	America, 18 - 20 May 2016, vol.145, pp.327-332
XXII.	Prospects for Meeting the Corporate Average Fuel Economy Standards in the US
	Zielinski J., Andreucci R., Aktaș C. B.
	International Conference on Sustainable Design, Engineering and Construction (ICSDEC), Arizona, United States Of
	America, 18 - 20 May 2016, vol.145, pp.460-467
XXIII.	Quantifying Sustainable Improvements: Interactions of Energy Efficient Construction Techniques and
	Estimating Their Efficiency
	Pustola K., Aktaş C. B.
	Zone 1 Conference of the American-Society-for-Engineering-Education (ASEE Zone), Connecticut, United States Of
	America, 3 - 05 April 2014
XXIV.	Strategies to Reduce Disparity between Design and Service Lifetimes of Building Products
	Aktaș C. B., Bilec M.
VVU	4th International Conference On Sustainable Enterprises of the Future, 18 - 19 April 2012
XXV.	Market and Environmental Analyses of Key Construction Commodities
	Bilec M., Marriott J., Aktaș C. B., Padilla F., Snyder M. Wastern Bannyukania Transportation Bassarch Forum of the International Bridge Conference, 01 June 2010
XXVI.	Western Pennsylvania Transportation Research Forum of the International Bridge Conference, 01 June 2010 Life Cycle Energy Consumption of Pultruded Flax Fiber Composites
	Aktaş C. B., Bilec M. M., Marriott J., Landis A. E., Mutnuri B.
	2010 IEEE International Symposium on Sustainable Systems and Technology, Darlington, England, 17 - 19 May
	2010 Hele international Symposium on Sustainable Systems and Technology, Darmiguon, England, 17 - 19 May 2010
XXVII.	Determining the Thickness of Concrete Pavements using Impact-Echo Method
<i>AA</i> V 11,	Aktaş C. B., Yaman İ. Ö.
	8th International Congress on Advances in Civil Engineering, 01 September 2008
	our mermanonal congress on navances in orn Engineering, or september 2000

Activities in Scientific Journals

Çimento ve Beton Dünyası, First Editor, 2024 - Continues

Scientific Refereeing

ENVIRONMENTAL SCIENCE & TECHNOLOGY, April 2020 CRITICAL REVIEWS IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY, March 2020 INTERNATIONAL JOURNAL OF SUSTAINABILITY IN HIGHER EDUCATION, January 2020 JOURNAL OF URBAN PLANNING AND DEVELOPMENT, February 2019 RESOURCES, CONSERVATION AND RECYCLING, January 2019 BUILDING AND ENVIRONMENT, January 2019

Tasks In Event Organizations

Aktaş C. B., 2. Ulusal Beton Yollar Kongre ve Sergisi, Scientific Congress, Ankara, Turkey, Kasım 2022 Aktaş C. B., 1. Beton Yollar Kongresi ve Sergisi, Scientific Congress, Ankara, Turkey, Kasım 2019 Aktaş C. B., 9th International Conference on Life Cycle Management, Scientific Congress, Poznan, Poland, Eylül 2019

Metrics

Publication: 57 Citation (WoS): 560 Citation (Scopus): 926 H-Index (WoS): 11 H-Index (Scopus): 13

Congress and Symposium Activities

ESG Türkiye Zirvesi, Attendee, Ankara, Turkey, 2022 International Workshop on Geothermal Energy for Sustainable Development, Attendee, Ankara, Turkey, 2021 Türkiye'de İklim Değişikliğine Uyum Eyleminin Güçlendirilmesi Projesi Kapasite Geliştirme Planı İstişare Toplantısı, Attendee, Ankara, Turkey, 2021 Ankara İli Yerel İklim Değişikliği Eylem Planı Paydaş Toplantısı, Attendee, Ankara, Turkey, 2020 Deprem Sivil İnisiyatif Toplantısı, Attendee, Ankara, Turkey, 2020 Zero Gravity Workshop, Attendee, Ankara, Turkey, 2019

Awards

Aktaş C. B., TEDU Engineering Faculty 2023 Excellence in Teaching Award, Ted Üniversitesi, July 2023 Aktaş C. B., Most Cited Paper Award 2019, Resources, Conservation And Recycling, January 2020