

Res. Asst. MURAT ALTUN

Personal Information

Office Phone: [+90 210 542 22](tel:+9021054222)

Email: mualtun@metu.edu.tr

Web: <https://blog.metu.edu.tr/mualtun/>

International Researcher IDs

ScholarID: TYxTyoEAAAAJ

ORCID: 0000-0002-8782-9545

Publons / Web Of Science ResearcherID: AAR-6765-2020

ScopusID: 57194687956

Yoksis Researcher ID: 218974

Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 2015 - Continues

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 2012 - 2015

Undergraduate Double Major, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 2009 - 2013

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 2007 - 2012

Dissertations

Postgraduate, Model based building energy optimization using meta-heuristics, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2015

Research Areas

Evolutionary Computing, Neural Networks, Informatics in Construction Management, Construction Management, Optimization Theory and Methods

Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2014 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

1. Utilizing digital technologies for rapid damage assessment and reconnaissance: the February 6, 2023 Kahramanmaraş-Türkiye earthquakes (Mw 7.7 and Mw 7.6)

ERSÖZ A. B., PEKCAN O., ALTUN M., TEKE T., AYDOĞMUŞ Ö.

Bulletin of Earthquake Engineering, 2024 (SCI-Expanded)

II. Effect of envelope insulation on building heating energy requirement, cost and carbon footprint from a life-cycle perspective

Altun M., Akgül Ç., Akçamete A.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.1, pp.147-163, 2020 (SCI-Expanded)

III. A modified approach to cross entropy method: Elitist stepped distribution algorithm

Altun M., Pekcan O.

APPLIED SOFT COMPUTING, vol.58, pp.756-769, 2017 (SCI-Expanded)

Articles Published in Other Journals

I. A mixed integer programming method for multi-project resource leveling

Altun M., Sönmez R., Akçamete Güngör A.

Journal of Construction Engineering, Management Innovation, vol.3, no.2, pp.131-140, 2020 (Peer-Reviewed Journal)

II. Dış sıcaklık verisinin bina ısıtma enerji gereksinimine etkisinin ve TS 825 derece-gün bölge kümelenmesinin geçerliliğinin incelenmesi

ALTUN M., AKÇAMETE GÜNGÖR A., AKGÜL Ç.

Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, 2020 (ESCI)

III. Investigation of the effect of outdoor temperature data on the building heating energy requirement and validity of the TS 825 degree-day region clustering

Altun M., Akçamete Güngör A., Akgül Ç.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.26, no.6, pp.1062-1075, 2020 (ESCI)

Books & Book Chapters

I. Optimizing Reinforced Cantilever Retaining Walls Under Dynamic Loading Using Improved Flower Pollination Algorithm

TUTUŞ E. B., PEKCAN O., ALTUN M., TÜRKEZER M.

in: Applications of Flower Pollination Algorithm and its Variants, Nilanjan Dey, Editor, Springer Singapore, pp.139-169, 2021

II. Optimum Sizing of Truss Structures Using a Hybrid Flower Pollinations

ALTUN M., PEKCAN O.

in: Applications of Flower Pollination Algorithm and its Variants, Nilanjan Dey, Editor, Springer Singapore, pp.113-137, 2021

III. A Hybrid Cuckoo Search Algorithm for Cost Optimization of Mechanically Stabilized Earth Walls

Altun M., Yalcin Y., Pekcan O.

in: Applications of Cuckoo Search Algorithm and its Variants, Nilanjan Dey, Editor, Springer, London/Berlin , Singapore, pp.277-306, 2020

Refereed Congress / Symposium Publications in Proceedings

I. Application of TS 825 Turkish thermal insulation standard using BIM

Altun M., Akçamete Güngör A.

International Civil Engineering Architecture Conference (ICEARC 2019), Trabzon, Turkey, 17 - 20 April 2019,

pp.314-323

- II. **Multi-Project Multi-Resource Leveling Using Mixed Integer Programming**
ALTUN M., SÖNMEZ R., AKÇAMETE GÜNGÖR A.
IPCMC2018, 16 - 18 November 2018
- III. **A Method for Facilitating 4D Modeling by Automating Task Information Generation and Mapping**
Altun M., Akçamete Güngör A.
35th CIB W78 2018 Conference IT in Design, Construction, and Management, Illinois, United States Of America, 1 - 03 October 2018
- IV. **Analysis of Slopes Using Elitist Differential Evolution Algorithm**
YALÇIN Y., ALTUN M., PEKCAN O.
6th International Conference on Engineering Optimization, Lizbon, Portugal, 17 - 19 September 2018
- V. **Application of Artificial Neural Networks on Building Energy Estimation**
ALTUN M., ERSÖZ A. B., TEKE T., KURT T., AKÇAMETE GÜNGÖR A., PEKCAN O.
International Conference on Engineering Technologies, Konya, Turkey, 7 - 09 December 2017
- VI. **Kaynak Dengeleme Problemine Öncelikli Diferansiyel Evrim Algoritmasıyla Bir Yaklaşım**
ALTUN M., SÖNMEZ R., AKÇAMETE GÜNGÖR A.
4. Proje ve Yapım Yönetimi Kongresi, Eskişehir, Turkey, 3 - 05 November 2016
- VII. **Yapı Bilgi Modellemesi Tabanlı Bina Enerji Optimizasyonu**
ALTUN M., AKÇAMETE GÜNGÖR A.
4. Proje ve Yapım Yönetimi Kongresi, Eskişehir, Turkey, 3 - 05 November 2016
- VIII. **BIM based Multi Objective Building Life Cycle Energy Performance Evaluation Using Particle Swarm Optimization**
ALTUN M., AKÇAMETE GÜNGÖR A.
CIB W78 conference 2015, 27 - 29 October 2015
- IX. **Yapay Arı Kolonisi Algoritmasının Zaman-Maliyet Ödünleşim Problemlerine Uygulanması**
ALTUN M., AKÇAMETE GÜNGÖR A.
3. Proje ve Yapım Yönetimi Kongresi, Turkey, 6 - 08 November 2014, pp.708-719
- X. **Economic Performance Analysis of Turkish Airports 2002-2009**
Altun M., Pekcan O.
1st International Aviation Management Conference, Ankara, Turkey, 7 - 08 December 2012

Scientific Refereeing

APPLIED SOFT COMPUTING, SCI Journal, July 2020

Metrics

Publication: 19

Citation (WoS): 19

Citation (Scopus): 20

H-Index (WoS): 3

H-Index (Scopus): 2

Scholarships

2210-National Scholarship Programme for MSc Students, TUBITAK, 2012 - 2014

Awards

Altun M., Best Presenter, "International Conference On Engineering Technologies 2017" Konferansı Bilim Komitesi, April 2017