

Lect. PhD BAHADIR ERMAN YÜCE

Personal Information

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International Researcher IDs

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Biography

Yurt dışı deneyimi:

Postdoctoral Researcher, International Center of Indoor Environment and Energy - Technical University of Denmark, 2021-2022. (TUBITAK -2219-International Postdoctoral Research Fellowship Program for Turkish Citizens-2021)

Araştırma alanları:

- I. Thermodynamics
- II. Heat Transfer
- III. Computational Fluid Dynamics
- IV. Droplet Dispersion
- V. Ventilation
- VI. Indoor Air Quality
- VII. Thermal Comfort
- VIII. Cross Infection Risk
- IX. Infection control
- X. Healthy Buildings

Education Information

Post Doctorate, Technical University of Denmark, Denmark 2021 - 2022

Doctorate, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Mechanical Engineering, Turkey 2015 - 2019

Postgraduate, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Mechanical Engineering, Turkey 2013 - 2015

Undergraduate, Selcuk University, Mechanical Engineering, Turkey 2008 - 2012

Dissertations

Doctorate, Ofis ortamında türbülanslı akış modellerinin karşılaştırılması ve çeşitli ısıtma sistemlerinin ısı konfor indisleri

ve Gagge modeli kullanılarak sayısal simülasyonu, 2019

Postgraduate, Oda havalandırılmasında hava akışı, sıcaklık dağılımı, ısı transferi ve ısıl konforun sayısal simülasyonları, 2015

Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Conventional Energy Systems and Their Technology, Alternative Energy Resources, Advanced Energy Technologies, Geothermal energy, Heat and Mass Transfer, Heating, Refrigerating and Air Conditioning, Internal Combustion Engines, Computational fluid dynamics, Thermal Systems

Academic Titles / Tasks

Lecturer, Bursa Uludağ University, Yenişehir İbrahim Orhan Myo, Elektrik Ve Enerji, 2024 - Continues

Assistant Professor, Bitlis Eren University, Faculty of Engineering and Architecture, Mechanical Engineering, 2020 - 2024

Research Assistant, Bitlis Eren University, Institute of Science and Technology, Mechanical Engineering, 2019 - 2020

Research Assistant, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Yenişehir İbrahim Orhan Vocational School, 2013 - 2019

Academic and Administrative Experience

Vice Dean, Bitlis Eren University, Mühendislik Fakültesi, 2023 - 2024

Deputy Head of Department, Bitlis Eren University, Mühendislik Fakültesi, Makine Mühendisliği, 2021 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of infectious droplet dispersion in a hospital examination room cooled by split-type air conditioner**
Yüce B. E., Kalay O. C., Karpat F., Alemdar A., Temel Ş. G., Görek Dilektaşlı A., Bülbül Başkan E., Özakın C., Çoşkun B.
Journal of Environmental Health Science and Engineering, vol.2, pp.1-12, 2024 (SCI-Expanded)
- II. **Multi objective optimization of emission and performance characteristics in a spark ignition engine with a novel hydrogen generator**
Yuce B. E., Oral F.
ENERGY, vol.289, 2024 (SCI-Expanded)
- III. **Analysis of parameters influencing pathogen concentration in a room with displacement ventilation using computational fluid dynamics and Taguchi methods**
Yuce B. E., Aganovic A., Nielsen P. V., Wargocki P.
JOURNAL OF BUILDING ENGINEERING, vol.80, 2023 (SCI-Expanded)
- IV. **A metaheuristic approach for multi-objective optimization of the Stirling cycle with internal irreversibilities and regenerative losses using artificial bee colony algorithm**
Eser S., Yuce B. E.
ENERGY CONVERSION AND MANAGEMENT, vol.292, 2023 (SCI-Expanded)
- V. **PREDICTION OF SKIN TEMPERATURE IN DIFFERENT THERMAL CONDITIONS USING ARTIFICIAL NEURAL NETWORK**
Yuce B. E.
HEAT TRANSFER RESEARCH, vol.54, no.10, pp.1-17, 2023 (SCI-Expanded)
- VI. **Cooling of Heated Blocks with Triangular Guide Protrusions Simulating Printed Circuit Boards**
Beyazoglu E., Yuce B. E., Ates M., YALINDAĞ R., Sokmen K. F., PULAT E.
SUSTAINABILITY, vol.14, no.23, 2022 (SCI-Expanded)

- VII. **The use of Taguchi, ANOVA, and GRA methods to optimize CFD analyses of ventilation performance in buildings**
Yuce B. E., Nielsen P. V., Wargocki P.
BUILDING AND ENVIRONMENT, vol.225, 2022 (SCI-Expanded)
- VIII. **THE EFFECT OF ELEVATOR CABIN SIZE ON INFECTIOUS DROPLET DISPERSION**
Yuce B. E.
HEAT TRANSFER RESEARCH, vol.53, no.11, pp.17-29, 2022 (SCI-Expanded)
- IX. **A PARAMETRIC STUDY ON THE EFFECT OF BLOWING PARAMETERS OF SPLIT-TYPE AIR CONDITIONERS ON THERMAL COMFORT AND VENTILATION**
PULAT E., Yuce B. E.
HEAT TRANSFER RESEARCH, no.15, pp.63-76, 2021 (SCI-Expanded)
- X. **Forced, natural and mixed convection benchmark studies for indoor thermal environments**
Yuce B. E., PULAT E.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, pp.1-14, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of Thermal Insulation Performance at Different Coating Thicknesses by Using Finite Volume Method**
YUCE B. E., ÖZEL S.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.28, no.2, pp.641-650, 2023 (Peer-Reviewed Journal)
- II. **Application of the Taguchi and ANOVA Methods to Optimize Ventilation Parameters for Infection Risk Based on the Wells-Riley Model**
YUCE B. E.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.12, no.1, pp.199-206, 2023 (Peer-Reviewed Journal)
- III. **Analysis of Optimum Insulation Thickness and Energy Saving for Different Fuels and Wall Components in Bitlis Province**
YUCE B. E., ACAR M. C.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.10, no.4, pp.1426-1434, 2021 (Peer-Reviewed Journal)
- IV. **Altan Isıtma Sisteminin Kullanıldığı Bir Ofis Odasında Isıl Konfor ve İç Hava Kalitesinin Sayısal Olarak İncelenmesi**
YUCE B. E., PULAT E.
Tesisat Mühendisliği, vol.2021, no.184, pp.60-65, 2021 (Peer-Reviewed Journal)
- V. **Performance prediction of a single-stage refrigeration system using R134a as a refrigerant by artificial intelligence and machine learning method**
YUCE B. E.
Bitlis Eren University Journal of Science and Technology, vol.10, no.2, pp.84-87, 2020 (Peer-Reviewed Journal)
- VI. **Çilek Kurutulmasının Deneysel ve Nümerik Olarak İncelenmesi**
TAN F., CANBOLAT A. S., YUCE B. E., TÜRKAN B.
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.21, no.1, pp.203-216, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **FARKLI KAPLAMA MALZEMELERİNİN EGZOZ MANİFOLDU ÜZERİNDE OLUŞAN SICAKLIK DAĞILIMINA ETKİSİ**
YUCE B. E., ÖZEL S.
in: INTERNATIONAL ENERGY RESEARCH AND APPLICATIONS, Yıldız Alim, Ünsal Derya Betül, Editor, Sivas Cumhuriyet University Rectorate Publishing Office, Sivas, pp.151-165, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **CONVENTIONAL AND ADVANCED EXERGY ANALYSIS OF A RANKINE CYCLE**
YÜCE B. E.
II. INTERNATIONAL ENERGY DAYS, Turkey, 27 September 2023
- II. **DUVAR TİPİ KLİMALARIN ENFEKTE DAMLACIK DAĞILIMINA ETKİSİ**
YÜCE B. E.
15. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, İzmir, Turkey, 26 April 2023
- III. **Optimization Of Ventilation Parameters To Minimize The Infection Risk With The Taguchi Method**
YÜCE B. E.
2nd INTERNATIONAL RAHVA TECHNICAL AND SOCIAL RESEARCHES CONGRESS, Bitlis, Turkey, 3 - 04 December 2022, pp.253
- IV. **Thermal Analysis of Ceramic Coated Exhaust Manifold**
YÜCE B. E., ÖZEL S.
International Energy Days, Sivas, Turkey, 04 October 2022
- V. **Numerical Investigation of Thermal Performance of Diesel Engine Piston Coated with WC and ZrO2**
YÜCE B. E., ÖZEL S.
Global Summit on Advanced Materials & Sustainable Energy (G-AMSE22), Van, Turkey, 03 October 2022, pp.75-82
- VI. **ARAÇ KABİNİ İÇERİSİNDE HAVANIN ÇIKIŞ KONUMUNUN ISIL KONFORA OLAN ETKİSİ**
YÜCE B. E., PULAT E.
10th Automotive Technologies Congress, Bursa, Turkey, 06 September 2021
- VII. **A Numerical Study on Cooling Performance of Various Flow Field Designs of Cooling Plates**
ACAR M. C., YÜCE B. E.
5th International Hydrogen Technologies Congress 26-28 May 2021, Niğde, Turkey, 26 - 28 May 2021, pp.98-100
- VIII. **ALTTAN ISITMA SİSTEMİNİN KULLANILDIĞI BİR OFİS ODASINDA ISIL KONFOR VE İÇ HAVA KALİTESİNİN SAYISAL OLARAK İNCELENMESİ**
YÜCE B. E., PULAT E.
14. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, İzmir, Turkey, 17 April 2019
- IX. **ISITILAN BİR OFİS ODASINDA HAVA AKIŞI VE KONFORUN SAYISAL SİMÜLASYONU**
YÜCE B. E., PULAT E.
IV. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, Edirne, Turkey, 18 - 20 April 2018, vol.2, pp.1112-1121
- X. **NUMERICAL PREDICTION OF INDOOR AIR DISTRIBUTION AND THERMAL COMFORT FOR AN OFFICE ROOM**
YÜCE B. E., PULAT E.
RoomventVentilation 2018, Aalto-Helsinki, Finland, 2 - 05 June 2018
- XI. **Some Natural, Forced and Mixed Convection Benchmark Studies for Indoor Thermal Environments**
PULAT E., YÜCE B. E.
3rd INTERNATIONAL CONFERENCE ON SUSTAINABLE DEVELOPMENT (ICSD), Saraybosna, Bosnia And Herzegovina, 19 - 23 April 2017, pp.234-241
- XII. **BİR OFİS ODASINDAKİ TERMAL AKIŞIN KIŞ ŞARTLARINDA SAYISAL OLARAK İNCELENMESİ**
YÜCE B. E., PULAT E.
13. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, İzmir, Turkey, 19 - 22 April 2017, vol.1, pp.1231-1240
- XIII. **NUMERICAL SIMULATION OF THERMAL FLOW AND COMFORT IN AN OFFICE ROOM**
YÜCE B. E., PULAT E.
12th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, Malaga, Spain, 11 June 2016
- XIV. **ELEKTRONİK CİHAZLARIN SOĞUTULMASININ FARKLI TÜRBÜLANS MODELLERİ VE DUVAR YAKLAŞIMLARI İLE CFD SİMÜLASYONU**
tan f., CANBOLAT A. S., TÜRKAN B., YÜCE B. E.
12. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, İzmir, Turkey, 8 - 11 April 2015

- XV. **ÜLKEMİZDEKİ TÜKETİM TİPLİ GIDA ÜRÜNLERİNE VE KURUTMA TEKNİKLERİNE GENEL BİR BAKIŞ**
YÜCE B. E., TÜRKAN B., TAN F., CANBOLAT A. S.
2. Ulusal İklimlendirme Soğutma Eğitimi Sempozyumu ve Sergisi, Balıkesir, Turkey, 23 - 25 October 2014
- XVI. **ODA HAVALANDIRMASINDA ISIL KONFORUN SAYISAL SİMÜLASYONU**
YÜCE B. E., PULAT E.
12. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, Turkey, 8 - 11 April 2015

Supported Projects

Yüce B. E., Project Supported by Higher Education Institutions, İç Ortam Havalandırma, Hava Kalitesi, Isıl Konfor ve Enfeksiyon Riski Çalışmaları İçin Laboratuvar Alt Yapısının Oluşturulması, 2023 - 2024

Metrics

Publication: 33
Citation (WoS): 53
Citation (Scopus): 60
H-Index (WoS): 3
H-Index (Scopus): 3