

## Prof. EMİN KAHYA

### Personal Information

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### International Researcher IDs

ORCID: 0000-0001-9763-2714

Yoksis Researcher ID: 6520

### Education Information

Doctorate, Anadolu University, Institute Of Science, Endüstri Mühendisliği (Dr), Turkey 1985 - 1992

Postgraduate, Anadolu University, Institute Of Science, Endüstri Mühendisliği (YI) (Tezli), Turkey 1983 - 1985

Undergraduate, Anadolu University, Faculty Of Engineering-Architecture, Department Of Industrial Engineering, Turkey 1979 - 1983

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Kapasite artış planlaması problemine fayda fonksiyonu yaklaşımı, Anadolu University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), 1992

### Research Areas

Ergonomics and Occupational Safety, Engineering Economics

### Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Endüstri Mühendisliği Bölümü, 1985 - Continues

### Academic and Administrative Experience

Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Endüstri Mühendisliği Bölümü, 2017 - Continues

Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, 2015 - 2017

Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, 2012 - 2015

## Courses

Occupational Health and Safety , Undergraduate, 2020 - 2021  
Engineering Economy , Undergraduate, 2020 - 2021  
System Design, Undergraduate, 2020 - 2021  
Yatırım Analizi , Undergraduate, 2020 - 2021

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A bi-objective ergonomic assembly line balancing model with conic scalarization method**  
YETKİN B. N., KAHYA E.  
Human Factors and Ergonomics In Manufacturing, vol.32, no.6, pp.494-507, 2022 (SCI-Expanded)
- II. **Assessment of musculoskeletal disorders among employees working office workplaces in the manufacturing sector**  
KAHYA E.  
Work, vol.69, no.3, pp.1103-1113, 2021 (SSCI)
- III. **Improving the rapid office strain assessment method with an integrated multi-criteria decision making approach**  
KILIÇ DELİCE E., Can G. F., KAHYA E.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.3, pp.1297-1314, 2020 (SCI-Expanded)
- IV. **Mismatch between classroom furniture and anthropometric measures of university students**  
KAHYA E.  
INTERNATIONAL JOURNAL OF INDUSTRIAL ERGONOMICS, vol.74, 2019 (SCI-Expanded)
- V. **Evaluation of brain computer interface usage in terms of cognitive load: a pilot study**  
Kahya E., Özkan N. F., Ulutaş B.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.2, pp.648-662, 2019 (SCI-Expanded)
- VI. **Classification of BCI Users Based on Cognition**  
ÖZKAN N. F., KAHYA E.  
COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE, 2018 (SCI-Expanded)
- VII. **Assessing ergonomic risks in an university's administrative offices**  
ÖZKAN N. F., KAHYA E.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.32, no.1, pp.141-150, 2017 (SCI-Expanded)
- VIII. **The effects of job performance on effectiveness**  
Kahya E.  
INTERNATIONAL JOURNAL OF INDUSTRIAL ERGONOMICS, vol.39, no.1, pp.96-104, 2009 (SCI-Expanded)
- IX. **Ransom E. and the job evaluation group (2007) - Response**  
Kahya E.  
JOURNAL OF ADVANCED NURSING, vol.60, no.5, pp.572-573, 2007 (SCI-Expanded)
- X. **Determination of optimum insulation thicknesses of the external walls and roof (ceiling) for Turkey's different degree-day regions**  
Sisman N., Kahya E., Aras N., ARAS H.  
ENERGY POLICY, vol.35, no.10, pp.5151-5155, 2007 (SCI-Expanded)
- XI. **The effects of job characteristics and working conditions on job performance**  
Kahya E.  
INTERNATIONAL JOURNAL OF INDUSTRIAL ERGONOMICS, vol.37, no.6, pp.515-523, 2007 (SCI-Expanded)
- XII. **A modified Secant method for unconstrained optimization**  
Kahya E., Chen J.  
APPLIED MATHEMATICS AND COMPUTATION, vol.186, no.2, pp.1000-1004, 2007 (SCI-Expanded)

- XIII. **A class of exponential quadratically convergent iterative formulae for unconstrained optimization**  
Kahya E.  
APPLIED MATHEMATICS AND COMPUTATION, vol.186, no.2, pp.1010-1017, 2007 (SCI-Expanded)
- XIV. **A revision of a job evaluation system**  
Kahya E.  
JOURNAL OF ADVANCED NURSING, vol.56, no.3, pp.314-324, 2006 (SCI-Expanded)
- XV. **Modified Secant-type methods for unconstrained optimization**  
Kahya E.  
APPLIED MATHEMATICS AND COMPUTATION, vol.181, no.2, pp.1349-1356, 2006 (SCI-Expanded)
- XVI. **Comment on titled "An improvement on Fibonacci search method in optimization theory"**  
Kahya E.  
APPLIED MATHEMATICS AND COMPUTATION, vol.173, no.2, pp.753-756, 2006 (SCI-Expanded)
- XVII. **A new unidimensional search method for optimization: The 5/9 method**  
Kahya E.  
APPLIED MATHEMATICS AND COMPUTATION, vol.171, no.1, pp.163-179, 2005 (SCI-Expanded)
- XVIII. **A new unidimensional search method for optimization: Linear interpolation method**  
Kahya E.  
APPLIED MATHEMATICS AND COMPUTATION, vol.171, no.2, pp.912-926, 2005 (SCI-Expanded)
- XIX. **Comment on titled "On Fibonacci search method with k-Lucas numbers"**  
Kahya E.  
APPLIED MATHEMATICS AND COMPUTATION, vol.162, no.3, pp.1321-1324, 2005 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Ergonomik Montaj Hattı Dengeleme Problemine Farklı Çözüm Yaklaşımları**  
KAHYA E., YETKİN B. N.  
Endüstri Mühendisliği, vol.32, no.2, pp.217-234, 2021 (Peer-Reviewed Journal)
- II. **Büyük Ölçekli Bir Üretim İşletmesinin Ofislerinde Risk Değerlendirmesi.**  
KAHYA E., ADA G., ÇETİNKAYA Ö.  
Eskişehir Osmangazi Üniversitesi Mühendislik ve Mimarlık Fakültesi Dergisi, vol.29, no.1, pp.97-109, 2021 (Peer-Reviewed Journal)
- III. **Work-Related Injuries And Exposures Among Emergency Medical Service Personnel Due To Interior Design Of Ambulance**  
KAHYA E., Sakarya S., Özkan H., ANIK N.  
ESTÜDAM Halk Sağlığı Dergisi, vol.5, no.2, pp.257-269, 2020 (Peer-Reviewed Journal)
- IV. **Seramik Sektöründe Çevre Koşullarının Analizi**  
KAHYA E.  
Eskişehir Osmangazi Üniversitesi Mühendislik ve Mimarlık Fakültesi Dergisi, vol.28, no.2, pp.136-142, 2020 (Peer-Reviewed Journal)
- V. **Ambulans Çalışanlarının Kas İskelet Sistemi Rahatsızlıklarının Değerlendirilmesi**  
KAHYA E., Sakarya S.  
Ergoterapi ve Rehabilitasyon Dergisi, vol.8, no.2, pp.99-106, 2020 (Peer-Reviewed Journal)
- VI. **Bir Metal Sanayi İşletmesinde Fiziksel Zorlanmaların Kas İskelet Sistemi Rahatsızlıklarına Etkisi**  
KAHYA E.  
Endüstri Mühendisliği, vol.31, no.2, pp.148-158, 2020 (Peer-Reviewed Journal)
- VII. **ERGONOMİK MONTAJ HATTI DENGELEME İÇİN YENİ BİR MODEL ÖNERİSİ**  
KAHYA E., ŞAHİN B. N.  
Mühendislik Bilimleri ve Tasarım Dergisi, vol.7, no.4, pp.767-778, 2019 (Peer-Reviewed Journal)
- VIII. **A Wage Scheme Based on Job and Performance Evaluations**  
KAHYA E.

- Journal of Industrial Engineering, vol.30, no.3, pp.187-203, 2019 (Peer-Reviewed Journal)
- IX. **JANT SEKTÖRÜNDE QEC ve REBA YÖNTEMLERİYLE ERGONOMİK RİSK DEĞERLENDİRMESİ**  
KAHYA E., Sema S.  
Karaelmas İş Sağlığı ve Güvenliği Dergisi, vol.3, pp.83-96, 2019 (Peer-Reviewed Journal)
- X. **THE EFFECTS OF ENVIRONMENTAL FACTORS ON JOB PERFORMANCE IN METAL INDUSTRY**  
Kahya E., Ulutaş B., Özkan N. F.  
Journal of Industrial Engineering, vol.30, no.1, pp.1-14, 2019 (Peer-Reviewed Journal)
- XI. **METAL ENDÜSTRİSİNDE KİŞİSEL KORUYUCU DONANIM KULLANIMININ ANALİZİ**  
Kahya E., Ulutaş B., Özkan N. F.  
Selcuk University Journal of Engineering ,Science and Technology, vol.7, no.2, pp.420-433, 2019 (Peer-Reviewed Journal)
- XII. **SERAMİK SEKTÖRÜNDE TAŞIMA İŞLEMLERİNDE ERGONOMİK RİSK ANALİZİ**  
KAHYA E., ÇİÇEK E.  
Ergoterapi ve Rehabilitasyon Dergisi, vol.7, no.1, pp.47-58, 2019 (Peer-Reviewed Journal)
- XIII. **Soba Montaj Hattında Ergonomik Risk Değerlendirmesi**  
Kahya E., Acar Ş. B., Şahin D., Sarıççek İ.  
Eskişehir Osmangazi Üniversitesi Mühendislik ve Mimarlık Fakültesi Dergisi, vol.27, no.1, pp.21-39, 2019 (Peer-Reviewed Journal)
- XIV. **ANALYSIS OF ENVIRONMENTAL CONDITIONS IN METAL INDUSTRY**  
Kahya E., Ulutaş B., Özkan N. F.  
Mühendislik Bilimleri ve Tasarım Dergisi, vol.6, no.1, pp.38-46, 2018 (Peer-Reviewed Journal)
- XV. **HEDEF PROGRAMLAMA MODELİ İLE ERGONOMİK KISITLAR ALTINDA MONTAJ HATTI DENGELMESİ**  
ŞAHİN B. N., KAHYA E.  
Mühendislik Bilimleri ve Tasarımı Dergisi, vol.6, pp.188-196, 2018 (Peer-Reviewed Journal)
- XVI. **Kabin Üretimi Yapan Bir İşletmenin Kaynak Atölyesinde İş Sağlığı Ve Güvenliği Risk Değerlendirmesi**  
AYDIN F., ÇİDEM Ç., KAHYA E.  
Ergonomi, vol.1, no.3, pp.137-147, 2018 (Peer-Reviewed Journal)
- XVII. **Nöroloji Yoğun Bakım Ünitesinde Çalışan Hemşirelerin Maruz Kaldığı Fiziksel Zorlanmaların Analizi**  
KAHYA E., GÜRLEYEN E., GÜLBANDILAR S.  
Ergonomi, vol.1, no.1, pp.39-48, 2018 (Peer-Reviewed Journal)
- XVIII. **Bir Yüksek Öğretim Kurumunda Öğrenci Sıralarının Uygunluğunun Analizi,**  
KAHYA E., ÜNLÜER G., GÜZELDAL Z., DEMİRCİ Z. Ö.  
Ergonomi, vol.1, no.2, pp.59-76, 2018 (Peer-Reviewed Journal)
- XIX. **BİR MOBİLYA İŞLETMESİNİN MONTAJ HATTINDA ERGONOMİK RİSK ANALİZİ**  
ÇİÇEK E., KAZANÇ N., KAHYA E.  
Mühendislik Bilimleri ve Tasarımı Dergisi, vol.6, pp.67-82, 2018 (Peer-Reviewed Journal)
- XX. **THE EFFECTS OF INTERPERSONAL AFFECT AND OPPORTUNITY TO OBSERVE ON RATINGS IN MULTI-SOURCE ASSESSMENT PROCESS.**  
KAHYA E.  
Süleyman Demirel Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.23, no.4, pp.1505-1519, 2018 (Peer-Reviewed Journal)
- XXI. **MEASUREMENT OF CLINICAL NURSE PERFORMANCE: DEVELOPING A TOOL INCLUDING CONTEXTUAL ITEMS**  
KAHYA E., ORAL N.  
Journal of Nursing Education and Practice, vol.8, no.6, pp.112-123, 2018 (Peer-Reviewed Journal)
- XXII. **A wage model consisted of job evaluation employee characteristics and job performance**  
KAHYA E.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BİLİMLERİ DERGISI, vol.24, no.4, pp.720-729, 2018 (ESCI)
- XXIII. **APPLICABLE PERFORMANCE CRITERIA TO EVALUATE CLINICAL NURSES**  
KAHYA E., ORAL N.

- Hacettepe Sağlık İdaresi Dergisi, vol.21, no.2, pp.289-304, 2018 (Peer-Reviewed Journal)
- XXIV. **PERSONEL DEĞERLEME SİSTEMİ İÇİN KARAR DESTEK SİSTEMİ TASARIMI**  
KAHYA E., TÜRKOĞLU M.  
Süleyman Demirel Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.23, no.3, pp.937-960, 2018 (Peer-Reviewed Journal)
- XXV. **Evaluation Of The Classroom Furniture For University Students**  
KAHYA E.  
Eskişehir Osmangazi Üniversitesi Mühendislik ve Mimarlık Fakültesi Dergisi, vol.26, no.1, pp.20-29, 2018 (Peer-Reviewed Journal)
- XXVI. **KOMBİ MONTAJ HATTINDA ERGONOMİK RİSK ANALİZİ**  
KAHYA E., GÜRLEYEN E.  
Mühendislik Bilimleri ve Tasarımı Dergisi, vol.6, no.0, pp.58-66, 2018 (Peer-Reviewed Journal)
- XXVII. **ERGONOMİK RİSK KISITLARI ALTINDA YENİ BİR MONTAJ HATTI DENGEME MODELİ GELİŞTİRİLMESİ**  
KAHYA E., ŞAHİN B. N., DAŞDELEN E., DOĞRU S.  
Mühendislik Bilimleri ve Tasarım Dergisi, vol.6, pp.49-57, 2018 (Peer-Reviewed Journal)
- XXVIII. **BİR METAL SANAYİ İŞLETMESİNDE ERGONOMİK RİSK ANALİZİ.**  
ÖZOĞUL B., ÇİMEN B., KAHYA E.  
Mühendislik Bilimleri ve Tasarımı Dergisi, vol.6, pp.159-175, 2018 (Peer-Reviewed Journal)
- XXIX. **An Investigation on the Ratings from Four Sources for Different Positions in a 360 Degree Feedback System**  
KAHYA E., ÇEMREK F.  
ESKİŞEHİR OSMANGAZI ÜNİVERSİTESİ İİBF DERGİSİ-ESKİŞEHİR OSMANGAZI UNIVERSITY JOURNAL OF ECONOMICS AND ADMINISTRATIVE SCIENCES, vol.12, no.3, pp.49-64, 2017 (ESCI)
- XXX. **An Experiment in Use of Brain Computer Interfaces for Cognitive Researches**  
ÖZKAN N. F., KAHYA E.  
International Journal of Intelligence Science, vol.5, pp.80-88, 2015 (Peer-Reviewed Journal)
- XXXI. **Revising the Metal Industry Job Evaluation System for Blue Collar Jobs**  
KAHYA E.  
Compensation & Benefits Review, vol.38, no.6, pp.49-63, 2006 (Peer-Reviewed Journal)
- XXXII. **A New Unidimensional Serach Method for Optimization The Tangential Interpolation**  
KAHYA E.  
International Journal of Applied Mathematics, vol.1, no.7, pp.711-724, 1999 (Peer-Reviewed Journal)

## **Books & Book Chapters**

- I. **Mühendislik Ekonomisi**  
Kahya E.  
Üniversite Yayınları, Eskişehir, 2020
- II. **Work Study**  
Kahya E.  
Üniversite Yayınları, Eskişehir, 2020
- III. **İŞ GÜVENLİĞİ**  
KAHYA E., ÖZKAR D.  
DORLİON Yayın Evi, Eskişehir, 2018
- IV. **İş Etüdü**  
KAHYA E.  
ESOGÜ Yayın No : 253, Eskişehir, 2017
- V. **Mühendislik Ekonomisi**  
KAHYA E.

ESOGU yayın No : 248, Eskişehir, 2017

**VI. İş Güvenliği**

KAHYA E., ÖZKAR D.

ESOGU Yayın No : 246, Eskişehir, 2014

**VII. Measurement of Cognitive Workload by Use of Combined Methods Including Brain-Computer Interfaces**

Özkan N. F., Kahya E.

in: Advances in Social and Organizational Factors, Peter Vink, Editor, CRC, New York, New York, pp.458-468, 2014

## **Refereed Congress / Symposium Publications in Proceedings**

**I. Assessing work related musculoskeletal disorders in metal industry**

ULUTAŞ B., ÖZKAN N. F., KAHYA E.

UGAL International Conference - Multidisciplinary HUB for Higher Education Internationalization by Means of Innovative Interaction with the Labour Market and Society, 26 - 27 October 2018

**II. Montaj Hattında Ergonomik İnceleme ve Düzenlemeler**

KAHYA E., Eryiğit B., Cerit M., ÖZKAN N. F.

21. Ulusal Ergonomi Kongresi, Turkey, 2 - 04 October 2015

**III. Beyin Bilgisayar Arayüzlerinin Bilişsel Durum Takibinde Kullanımı**

ÖZKAN N. F., KAHYA E.

20. Ulusal Ergonomi Kongresi, Turkey, 26 - 28 September 2014

**IV. Bir mobilya Fabrikasında Postür analizi**

Demir A., Durkaya E., KAHYA E., ÖZKAN N. F.

20. Ulusal Ergonomi Kongresi, Turkey, 26 September 2014 - 28 September 2013

## **Supported Projects**

KAHYA E., Project Supported by Higher Education Institutions, Sinirsel Geri Bildirim Yaklaşımıyla Bilişsel Performansın İncelenmesi, 2013 - 2015

## **Metrics**

Publication: 62

Citation (WoS): 306

Citation (Scopus): 383

H-Index (WoS): 5

H-Index (Scopus): 6

## **Non Academic Experience**

Eskişehir Jant A.Ş.