ERMAN ÇAKIT

Professor

Department of Industrial Engineering, Gazi University, 06570, Ankara, Turkey
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RESEARCH INTERESTS

- *Applications:* Human Factors/Ergonomics and Safety
- *Methodologies:* Machine Learning Algorithms, Soft-Computing Techniques, Applied Artificial Intelligence, and Applied Statistics.

EDUCATION

- Ph.D. in Industrial Engineering, August 2013
  - Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, FL, USA
  - *Dissertation Title:* Investigating the Relationship Between Infrastructure Development and Adverse Events in an Active War Theater Using Soft Computing Techniques
  - *Advisor:* Waldemar Karwowski (http://www.iems.ucf.edu/people/waldemar-karwowski)
- M.Sc. in Industrial Engineering, August 2008
  - Department of Industrial Engineering, Çukurova University, Adana, Turkey
  - *Thesis Title:* Fuzzy Logic Approach to Determine the Factors Affecting Hand Dexterity
  - *Advisor:* Behice Durgun
- B.Sc. in Industrial Engineering, 2006
  - Department of Industrial Engineering, University of Gaziantep, Gaziantep, Turkey

PUBLICATIONS

PEER REVIEWED JOURNAL ARTICLES (SCI, SCI- Expanded, SSCI)

1. Harputlu Aksu, Ş., Çakıt, E., Dağdeviren, M. (2024). Mental Workload Assessment Using Machine Learning Techniques Based on EEG and Eye Tracking Data. ***Applied Sciences (IF:2.7, Q2)***, 14 (6), 1-20.
2. Çakıt, E., Karwowski, W. (2024). Soft computing applications in the field of human factors and ergonomics: A review of the past decade of research. ***Applied Ergonomics (IF: 3.2, Q2)***, 114, 1-19.

3. Xu, Z., Karwowski, W., Çakıt, E., Reineman-Jones, L., Murata, A., Aljuaid, A., Sapkota, N., Hancock, P. (2023). Nonlinear Dynamics of EEG Responses to Unmanned Vehicle Visual Detection with Different Levels of Task Difficulty. *Applied Ergonomics (IF: 3.2, Q2)*, 111, 1-9.

4. Çakıt E., Dağdeviren M. (2023). Comparative analysis of machine learning algorithms for predicting standard time in a manufacturing environment. *Artificial Intelligence for Engineering Design, Analysis and Manufacturing (IF: 2.1, Q3)*, 37 (e2), 1-12.

5. Harputlu Aksu, Ş., Çakıt E. (2023). A machine learning approach to classify mental workload based on eye tracking data. *Journal of the Faculty of Engineering and Architecture of Gazi University (IF: 1.1, Q4)*, 38(2), 1027-1039.

6. Aljuaid, A., Alhujailli, A., Çakıt, E., Karwowski, W., Jaworek, M.A., Marek, T., Murata, A. (2022). Relationships Among Work-Related Affective Feelings in Employees, Determined Through Partial Least Squares Structural Equation Modeling (PLS-SEM). *Applied Sciences (IF: 2.7, Q2),* 12, 7923. https://doi.org/10.3390/app12157923.

7. Adem, A., Çakıt, E., Dağdeviren, M. (2022). Selection of suitable distance education platforms based on human-computer interaction criteria under fuzzy environment. *Neural Computing and Applications, (IF: 6, Q1),* https://doi.org/10.1007/s00521-022-06935-w

8. Adem, A., Çakıt, E., Dağdeviren, M. (2022). A fuzzy decision-making approach to analyze the design principles for green ergonomics. *Neural Computing and Applications, (IF: 6, Q1),* 34(2), 1373-1384.

9. Çakıt, E., Dağdeviren, M. (2022). Predicting the percentage of student placement: A comparative study of machine learning algorithms. *Education and Information Technologies (IF: 5.5, Q1)*, 27(1), 997-1022.

10. Datlıca, M.T., Çakıt, E. (2021). Estimation of clustering parameters and anomaly detection in tracking devices with changeable position time. *Journal of the Faculty of Engineering and Architecture of Gazi University (IF: 1.1, Q4),* 36(1), 373-394.

11. Çakıt, E., Karwowski, W., Marek, T., Jaworek, M., Wrobel, G. (2020). A Cross-Sectional Study of the Relationships Between Work-Related Affective Feelings Expressed By Workers in Turkey. *International Journal of Environmental Research and Public Health (IF: 4.614, Q1),* 17 (24), 1-13.

12. Çakıt, E., Karwowski, W., Servi, L. (2020). Application of soft computing techniques for estimating emotional states expressed in Twitter® time series data. *Neural Computing and Applications, (IF: 6, Q1),* 32 (8), 3535–3548.

13. Çakıt, E., Olak, A.J., Karwowski, W., Marek, T., Hejduk, I., Taiar, R. (2020). Assessing Safety at Work Using An Adaptive Neuro-Fuzzy Inference System (ANFIS) Approach Aided By Partial Least Squares Structural Equation Modeling (PLS-SEM). *International Journal of Industrial Ergonomics (IF: 3.1, Q3),* Vol. 76.

14. Hejduk, I., Olak, A.J., Karwowski, W., Tomczyk, P., Fazlagić, J., Gac, P., Hejduk, H., Sobolewska, S., Alrehaili, O., Çakıt, E. (2020). Safety Knowledge and Safe Practices at Work: A Study of Polish Industrial Enterprises. *WORK: A Journal of Prevention, Assessment, and Rehabilitation (IF: 2.3, Q4).* 65(2), 349-359.

15. Olak, A.J., Hejduk, I., Karwowski, W., Tomczyk, P., Fazlagić, J., Gac, P., Hejduk, H., Sobolewska, S., Çakıt, E., Alrehaili, O. (2020). The Relationship Between the Use of Smart Mobile Technology, Safety Knowledge, and Propensity to Follow Safe Practices at Work. *International Journal of Occupational Safety and Ergonomics (IF:2.4, Q3)* (In press).

16. Çakıt, E., Olak, A.J., Murata, A., Karwowski, W., Alrehaili, O., Marek, T. (2019). Assessment of the Perceived Safety Culture in the Petrochemical Industry in Japan: A Cross-Sectional Study. *PLOS ONE (IF: 3.7, Q2).* 14(12).

17. Donghui, S., Zurada, J., Karwowski, W., Guan, J., Çakıt, E. (2019). Batch and Data Streaming Classification Models for Detecting Adverse Events. *Engineering Applications of Artificial Intelligence (IF: 8, Q1)*, Vol.85, 72-84.

18. Çakıt, E., & Karwowski, W. (2018). A fuzzy overlay model for mapping adverse event risk in an active war theatre. *Journal of Experimental & Theoretical Artificial Intelligence, (IF: 2.2, Q3)*, 30(5), 691-701.

19. Çakıt E. (2018). Ergonomic assessment of airport shuttle driver tasks using an ergonomic analysis toolset, *International Journal of Occupational Safety and Ergonomics, (IF: 2.4, Q3)*, 24(2), 286-293.

20. Çakıt, E., and Karwowski, W. (2017). Estimating electromyography responses using an adaptive neuro-fuzzy inference system with subtractive clustering, *Human Factors and Ergonomics in Manufacturing & Service Industries, (IF: 2.4, Q4)*, 27: 177-186.

21. Çakıt, E., and Karwowski, W. (2017). Predicting the occurrence of adverse events using an adaptive neuro-fuzzy inference system (ANFIS) approach with the help of ANFIS input selection, *Artificial Intelligence Review, (IF: 12, Q1)*, 48:139-155. doi 10.1007/s10462-016-9497-3.

22. Çakıt, E., Durgun, B., and Cetik, O. (2015). A neural network approach for assessing the relationship between grip strength and hand anthropometry, *Neural Network World, (IF: 0.8, Q4)*, 6, 603-622.

23. Çakıt, E., and Karwowski, W. (2015). Fuzzy inference modeling with the help of fuzzy clustering for predicting the occurrence of adverse events in an active theater of war, *Applied Artificial Intelligence, (IF: 2.8, Q2)*, 29(10), 945-961.

24. Çakıt, E. (2015). Assessment of the physical demands of waste collection tasks, *Global NEST Journal, (IF: 1.1, Q4)*, 17(2), 426-438.

25. Çakıt, E., Karwowski, W., Bozkurt, H., Ahram, T., Thompson, W., Mikusinski, P., & Lee, G. (2014). Investigating the relationship between adverse events and infrastructure development in an active war theater using soft computing techniques, *Applied Soft Computing, (IF: 8.7, Q1)*, 25, 204-214.

26. Cakit, E., Durgun, B., Cetik, O. and Yoldas, O. (2014). A Survey of Hand Anthropometry and Biomechanical Measurements of Dentistry Students in Turkey. *Human Factors and Ergonomics in Manufacturing & Service Industries, (IF: 2.4, Q4)*, 24: 739–753.

PEER REVIEWED JOURNAL ARTICLES (ESCI)

1. Adem, A., Çakıt, E., and Dağdeviren, M. (2020). Occupational health and safety risk assessment in the domain of Industry 4.0. *SN Applied Sciences*, 2, 977.

2. Çakıt, E., Karwowski, W., Murata, A., Olak, A.J. (2020). Application of Structural Equation Modeling (SEM) and an Adaptive Neuro-Fuzzy Inference System (ANFIS) for Assessment of Safety Culture: An Integrated Modeling Approach. *Safety*, 6 (1).

3. Bozkurt, H., Karwowski, W., Çakıt, E., and Ahram, T. (2019). A cellular automata model of the relationship between adverse events and regional infrastructure development in an active war theater. *Technologies*, 7(3), 54.

PEER REVIEWED JOURNAL ARTICLES (Other Indexes)

1. Adem, A., Yılmaz Kaya, B., Çakıt, E., and Dağdeviren, M. (2022). The Impact of Digital Transformation in Manufacturing Systems On Work-Study Techniques, *Verimlilik Dergisi*, Special Issue, 109-121 (In Turkish).

2. Çakıt, E. (2022). Ergonomic Risk Assessment of Hairdressers Using Rapid Entire Body Assessment, *Ergonomics International Journal*, 6(1), 1-6.
3. Çakıt, E. (2020). Computer-Aided Ergonomics: A Case Study for the Analysis of Resistance Training Exercises. *Ergonomics International Journal*, 4(6), 1-9.
4. Çakıt, E., Adem, A., and Dağdeviren, M. (2020). Is Industry 4.0 threat or opportunity for Ergonomics?, *Verimlilik Dergisi*, 3, 43-57 (In Turkish).
5. Adem, A., Çakıt, E., and Dağdeviren, M. (2019). A literature review for neuroergonomics studies. *Ergonomics*, 2(2), 131-136. DOI : 10.33439/ergonomi.483197. (In Turkish)
6. Çakıt, E. (2019). Analysis of Noise Level in a Campus Area: Case Study for Gazi University Maltepe Campus. *Ergonomics International Journal*, 3(4), 1-8.
7. Çakıt, E. (2019). Ergonomic Risk Assessment using Cornell Musculoskeletal Discomfort Questionnaire in a Grocery Store. *Ergonomics International Journal*, 3(6), 1-5.
8. Çakıt, E., and Karwowski, W. (2017). Potential Applications of Soft-Computing Techniques for Human Socio-Cultural Behavior Modeling. *Journal of Computing* vol. 12, no.4, pp.284-290.
9. Çakıt E. (2017). Grip Strength Survey Based on Hand Tool Usage. *Süleyman Demirel University Journal of Natural and Applied Sciences*, 21(1), 230-234. doi:10.19113/sdufbed.67994.
10. Çakıt E. (2017). Estimation of Energy Expenditure Based on Divided Manual Material Handling Task: Waste Collection Example. *Celal Bayar University Journal of Science*, 13 (1), 51-54. DOI: 10.18466/cbayarfbe.302640
11. Cakit, E., and Karwowski, W. (2015). Assessing the Relationship between Economic Factors and Adverse Events in an Active War Theater Using Fuzzy Inference System Approach. *International Journal of Machine Learning and Computing* vol. 5, no. 3, pp. 252-257.

BOOK CHAPTERS

1. Kawala-Sterniuk, A., Kargarnovin, S., Hernandez, C., Murata, A., Santos, F., Rebelo, F., Çakıt, E. ... & Karwowski, W. (2024). 5 Haptics and Tactile Interaction with Computers. Interaction Techniques and Technologies in Human-Computer Interaction, 122-154. CRC Press.
2. Çakıt, E. (2022). A Systematic Review of Fuzzy Logic Applications for the COVID-19 Pandemic. In Big Data Analytics and Artificial Intelligence in the Healthcare Industry, (pp. 101-128), IGI Global.
3. Çakıt, E. (2022). The Relationship Between Sustainability and Ergonomics/Human Factors Engineering (pp. 47-58). Artikel Akademi. (In Turkish).
4. Çakıt, E., & Karwowski, W. (2016). Gaining Insight by Applying Geographical Modeling. In Modeling Sociocultural Influences on Decision Making: Understanding Conflict, Enabling Stability (pp. 243-266). CRC Press.

INTERNATIONAL REFEREED CONFERENCE PROCEEDINGS

1. Doğru, I., & Çakıt, Erman (2024). Prediction of Noise-Induced Hearing Loss in the Forest Sector Using Machine Learning Techniques. *15th International Conference on Applied Human Factors and Ergonomics,* Nice, France, July 24-27, 2024.
2. Harputlu Aksu, Ş., Çakıt, E., Dağdeviren, M. (2023). Investigating the relationship between EEG features and N-back task difficulty levels with NASA-TLX scores among

undergraduate students. *6th International Conference on Intelligent Human Systems Integration: Integrating People and Intelligent Systems (IHSI 2023),* Venice, Italy, February 22-24, 2023.

3. Harputlu Aksu, Ş., Çakıt, E. (2022). Classifying Mental Workload Using EEG Data: A Machine Learning Approach. *13th International Conference on Applied Human Factors and Ergonomics,* New York, USA, July 24-28, 2022.

4. Çakıt, E., Karwowski, W. (2020). A Review on Applications of Soft Computing Techniques in Neuroergonomics During the Last Decade, *Proceedings of the AHFE 2020 Virtual Conferences on Neuroergonomics and Cognitive Engineering, and Industrial Cognitive Ergonomics and Engineering Psychology,* USA, 37-43.

5. Adem, A., Çakıt, E., Dağdeviren, M. (2019). An Investigation of the New Occupational Risks Posed by Industry 4.0, *5th International Conference on Engineering Sciences*, Ankara, Turkey.

6. Datlıca, M.T., Çakıt, E. (2019). Application of ST-DBSCAN algorithm on location data and determination of routines, *Uluslararası bilim, teknoloji ve sosyal bilimlerde güncel gelişmeler sempozyumu*, Ankara, Turkey.

7. Zurada, J., Shi, D., Karwowski, W., Guan,J., Çakıt, E. (2018). Detecting Adverse Events in an Active Theater of War Using Advanced Computational Intelligence Techniques, *International Conference on Theory and Application of Fuzzy Systems and Soft Computing* Warsaw, Poland.

8. Zurada, J., Donghui, S., Karwowski, W., Guan, J., and Cakit, E. (2018). Detecting Adverse Events in an Active Theater of War Using Data Mining Techniques, *Proceedings of the Eighth International Conference on Business Intelligence and Technology* (BUSTECH 2018), pp. 43-44, Barcelona, Spain, Feb 18-22, 2018.

9. Çakıt, E., Karwowski, W. (2017). Understanding the Social and Economic Factors Affecting Adverse Events in an Active Theater of War: A Neural Network Approach, *International Conference on Applied Human Factors and Ergonomics,* Los Angeles, USA.

10. Çakıt, E., Durgun, B., Cetik, O. (2016). Assessing the Relationship Between Hand Dimensions and Manual Dexterity Performance for Turkish Dental Students, *International Conference on Applied Human Factors and Ergonomics*, Florida, USA.

11. Çakıt, E., Karwowski, W. (2015). Understanding patterns of infrastructure development in the active war theater of Afghanistan over the period 2002-2010. 6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, *Procedia Manufacturing*, Volume 3, 3876-3882.

12. Çakıt, E., Karwowski, W. (2015). Correlation analysis between the occurrence of adverse events and infrastructure development in an active war theater. *Proceedings 19th Triennial Congress of the IEA*, Melbourne 9-14 August 2015.

13. Cakit, E., Karwowski, W. (2014). Using Geographic Information Systems Analysis for Mapping Adverse Events in an Active War Theater. In: S. Schatz, J. Cohn, and D. Nicholson (Eds.), Advances in Cross-Cultural Decision Making (Published by 5th AHFE Conference, Krakow, Poland), CRC Press, pp. 187-197.

NATIONAL REFEREED CONFERENCE PAPERS

1. Adem, A., Çakıt, E., Dağdeviren, M. (2023). The Changing Role of Ergonomists with Industry 4.0. *The 29th National Ergonomics Conference*, Çanakkale, Turkey.

2. Çakıt, E., Adem, A., Dağdeviren, M. (2018). Is Industry 4.0 threat or opportunity for Ergonomics?, *The 24th National Ergonomics Conference*, Erzurum, Turkey.

3. Adem, A., Çakıt, E., Dağdeviren, M. (2018). A literature review for Neuroergonomics Studies, *The 24th National Ergonomics Conference*, Erzurum, Turkey.
4. Çakıt, E. (2014). Posture Analysis of Solid Waste Collection Tasks Using Three Dimensional Ergonomics Assessment Tool (in Turkish), *20th National Ergonomics Conference*, Ankara, Turkey.
5. Çakıt, E. (2014). Posture Analysis of Airport Shuttle Driver Tasks Using Three Dimensional Ergonomics Assessment Tool: A Case Study (in Turkish), *20th National Ergonomics Conference*, Ankara, Turkey.
6. Çakıt, E., Durgun, B., Çetik, O. (2008). Adaptive Neuro-Fuzzy Inference Systems (ANFIS) Approach to Determine The Anthropometric Factors That Affects Hand Grip Strength (in Turkish), *14th National Ergonomics Conference*, Trabzon, Turkey.
7. Çakıt, E., Durgun, B., Çetik, O. (2008). Fuzzy Logic and Applications in Ergonomics (in Turkish), *28th National Meeting on Operational Research and Industrial Engineering*, Istanbul, Turkey.
8. Çakıt, E., Durgun, B., Çetik, O. (2008). Adaptive Neuro-Fuzzy Inference Systems (ANFIS) Approach To Determine The Anthropometric Factors That Affects Hand Dexterity (in Turkish), *28th National Meeting on Operational Research and Industrial Engineering*, Istanbul, Turkey.

GRADUATE STUDENTS

PHD THESIS COMPLETED

1. Şeniz Harputlu Aksu, Ph.D. in Industrial Engineering, Mental workload modeling by using machine learning techniques based on EEG and eye tracking data, Department of Industrial Engineering, Gazi University, October 2023.

MSc THESIS COMPLETED

1. Mustafa Tolga Datlıca, Master of Science in Management Information Systems, Prediction of clustering parameters and detection of anomalies on tracking devices by using location data at interchangeable time intervals, Graduate School of Informatics, March 2020.

2. Emine Ceren Özay, Master of Engineering in Industrial Engineering, Assessing the collection potential of customers in the energy sector using machine learning algorithms, Department of Industrial Engineering, Gazi University, November 2022.

3. Işık Doğru, Master of Engineering in Industrial Engineering, Prediction of noise-induced hearing loss in the forest sector workers using machine learning algorithms, Department of Industrial Engineering, Gazi University, June 2024.

PROFESSIONAL EXPERIENCE

ACADEMIC EXPERIENCE

▪ Professor: December 2022 – present
Department of Industrial Engineering, Gazi University, Ankara, Turkey
▪ Associate Professor: January 2019 – December 2022

Department of Industrial Engineering, Gazi University, Ankara, Turkey
- Associate Professor: October 2017 – January 2019
  Department of Industrial Engineering, Aksaray University, Aksaray, Turkey
- Visiting Research Scholar: November 2017 – January 2018
  Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, FL, USA
- Assistant Professor: January 2014 – October 2017
  Department of Industrial Engineering, Aksaray University, Aksaray, Turkey
- Research and Teaching Assistant: November 2006 – April 2009
  Department of Industrial Engineering, Cukurova University, Adana, Turkey

INDUSTRY EXPERIENCE

- Time Study and Productivity Project in TEMSA Bus & Coach Masters, Method Engineer, Sep. 2006 – Nov. 2006

TEACHING

Undergraduate Courses Taught
Department of Industrial Engineering, Gazi University, Ankara, Turkey
- Ergonomics (Fall 2018, 2019, 2020,2021,2022,2023,2024)
- Process Management (Spring 2019, 2020, 2021,2022,2023, 2024)
- Entrepreneurship (Spring 2019, 2020,2021,2022)
- Artificial Intelligence Fundamentals (Spring 2024, Fall 2024)

Department of Industrial Engineering, Turkish Aeronautical Association University, Ankara, Turkey
- Ergonomics (Spring 2021, Spring 2022, Spring 2023, Spring 2024)
- Process Management (Fall 2020, Fall 2023)

Department of Industrial Engineering, Aksaray University, Aksaray Turkey
- Ergonomics (Fall 2015, 2016, 2018)
- Work Analysis and Design (Spring 2018)
- Computer Programming I (Fall 2014, 2015, 2016, 2018)
- Computer Programming II (Matlab, Python) (Spring 2015, 2016, 2017, 2018)
- Artificial Intelligence Applications in Engineering (Fall 2016)
- Introduction to Computer Science (Fall 2014, 2015, 2016, 2018)
- Simulation Modeling (Spring 2017)
- Lean Manufacturing (Spring 2017, 2018)
- Productivity and Performance Analysis (Spring 2018)
- Time Management (Spring 2017)

Graduate Courses Taught
Department of Industrial Engineering, Gazi University, Ankara, Turkey
- Human-Machine Interaction and Usability Analysis (Fall 2021, 2022, Spring 2023, Spring 2024)

Department of Industrial Engineering, Aksaray University, Aksaray, Turkey
- Project Management (Fall 2018)

HONORS AND AWARDS

- Turkish Ministry of Education, Scholarship for Language School and Graduate Study Abroad (April 2009- August 2013)
- Awarded research assistantship during graduate study, Cukurova University, Adana, Turkey, November 2006 – April 2009
- Scholarship for Erasmus Student Exchange Program, Department of Management and Production Engineering, Opole University of Technology, Opole, Poland (February 2006 – July 2006)
- Granted Six Sigma Yellow Belt Certificate, University of Central Florida, USA, 2013

ACADEMIC SERVICE ACTIVITIES

SCIENTIFIC REVIEWING SERVICE

- Reviewer, *Ergonomics*, 2011 – present
- Reviewer, *Applied Soft Computing,* 2016 – present
- Reviewer, *Human Factors and Ergonomics in Manufacturing & Service Industries*, 2015 – present
- Reviewer, *Human-Intelligent Systems Integration*, 2019
- Reviewer, *International Journal of Fuzzy Systems*, 2019
- Reviewer, *Theoretical Issues in Ergonomics Science*, 2016 - present
- Reviewer, *Computers & Industrial Engineering*, 2016 – present
- Reviewer, *Computers in Human Behavior*, 2017 - present
- Reviewer, *Expert Systems*, 2014 – present
- Reviewer, *Medical & Biological Engineering & Computing*, 2019
- Reviewer, *Neural Computing and Applications*, 2017 - present
- Reviewer, *Artificial Intelligence Review*, 2015-present
- Reviewer, *Journal of Applied Statistics*, 2016
- Reviewer, *WORK: A Journal of Prevention, Assessment, and Rehabilitation*, 2016
- Reviewer, *Progress in Health Sciences*, 2017
- Reviewer, *Production*, 2019
- Reviewer, *Advanced Control for Applications*, 2019
- Reviewer, *Journal of the Faculty of Engineering and Architecture of Gazi University*, 2018- present
- Reviewer, *Sustainability*, 2022- present
- Reviewer, *Applied Sciences*, 2022- present
- Reviewer, *Healthcare*, 2022- present
- Reviewer, *Safety*, 2022- present
- Reviewer, *International Journal of Environmental Research and Public Health*, 2022- present
- Reviewer, *Ergonomics (Turkish)*, 2018- present
- Reviewer, *Sakarya University Journal of Science*, 2017- present
- Reviewer, *Anadolu University Journal of Science and Technology*, 2019
- Reviewer, *International Journal of Informatics Technologies*, 2019
- Reviewer, *Journal of Polytechnic*, 2020
- Reviewer, *Productivity (Turkish)*, 2020- present

PROFESSIONAL ACTIVITIES

JOURNAL EDITORIAL BOARD MEMBERSHIP

- Editor, *Current Social Science*, Ergonomics Section, April 2022 – November 2022
- Associate Editor, *Frontiers in Industrial Engineering*, Ergonomics and Human Factors Section, December 2022 - present
- Associate Editor, *Ergonomics International Journal*, July 2018- present
- Member, Editorial Board, *Human-Intelligent Systems Integration*, Springer, September 2019- present
- Member, Editorial Board, *Augmented Human Research,* Springer, January 2019- present
- Member, Editorial Board, *International Journal of Machine Learning and Computing (IJMLC)*, 2015 - present.
- Member, Editorial Board, *Advances in Artificial Intelligence and Machine Learning*, January 2022 - present.

CONFERENCE SCIENTIFIC ADVISORY BOARD MEMBERSHIP

- Member, Scientific Advisory Board, *International Conference on Applied Human Factors and Ergonomics (AHFE)*, *Cross-Cultural Decision-Making* Track, 2014- present, http://www.ahfe2022.org/
- Member, Scientific Advisory Board, *International Conference on Soft Computing and Applications (ICSCA'16)*, May 2016-present, http://www.iaeng.org/WCECS2016/ICSCA2016.html
- Member, Scientific Advisory Board, *International Conference on Information and Intelligent Computing,* 2014, http://www.iciic.org/
- Member, Scientific Advisory Board, *International Conference on Industrial Technology and Management*, 2015, http://www.icitm.org/

SCIENTIFIC SOCIETIES

- International representative for Turkey, *Foundation for Professional Ergonomics (FPE),* 2015- present www.ergofoundation.org
- Member, *International Association of Computer Science and Information Technology (IACSIT)* 2014- present
- Member, *Science and Engineering Institute (SCIEI)* 2014- present