

ELİF HAKTANIR AKTAŞ

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EDUCATION

- 2019 - 2022 **Istanbul Technical University, Istanbul, Turkey**
Ph.D., Department of Industrial Engineering (GPA: 4.00)
 - Thesis Title: Customer Oriented New Product Design and Analysis of Design Risks Using Fuzzy Sets Extensions
 - Thesis Advisor: Prof. Cengiz Kahraman
- 2017 - 2018 **Istanbul Technical University, Istanbul, Turkey**
M.S., Department of Industrial Engineering
 - Thesis Title: An Interval-Valued Pythagorean Fuzzy QFD Method and Its Application to Solar Photovoltaic Technology Development
 - Thesis Advisor: Prof. Cengiz Kahraman
- 2012 - 2016 **Bahcesehir University, Istanbul, Turkey**
B.S., Department of Industrial Engineering
 - Full scholarship
- 2016 **Hanze University of Applied Sciences, Groningen, Netherlands**
International Business and Management Studies
 - Minor Program (6 months)

ACADEMIC EXPERIENCE

- 2022 - **Bahcesehir University, Istanbul, Turkey**
Asst. Prof. Dr., Department of Industrial Engineering
- 2021 - 2022 **Altinbas University, Istanbul, Turkey**
Teaching Assistant, Department of Industrial Engineering
- 2017 - 2021 **Altinbas University, Istanbul, Turkey**
Research Assistant, Department of Industrial Engineering

LANGUAGE SKILL

YÖKDİL (English), Exam Date: 17.09.2021, Score: 97,50

RESEARCH INTERESTS

Fuzzy Logic, Multi-Criteria Decision Making, Engineering Economics, Quality Control and Management, New Product Development

JOURNAL ARTICLES

- **Haktanir, E.** & Kahraman, C. (2022). A novel picture fuzzy CRITIC & REGIME methodology: Wearable health technology application. *Engineering Applications of Artificial Intelligence*, 113, 104942.
- **Haktanir, E.** & Kahraman, C. (2022). New Product Design Using Chebyshev's Inequality Based Interval-Valued Intuitionistic Z-Fuzzy QFD Method. *Informatica*, 33(1), 1-33.
- **Haktanir, E.** & Kahraman, C. (2022). Process Design and Capability Analysis Using Pentagorean Fuzzy Sets: Surgical Mask Production Machines Comparison. *Journal of Intelligent & Fuzzy Systems*, 42(1), 477-489.
- **Haktanir, E.** (2021). A Fuzzy Film Rating System Using Pentagorean Fuzzy K-Means Clustering. *Journal of Multiple-Valued Logic & Soft Computing*, 37(5/6), 463-480.
- **Haktanir, E.** & Kahraman, C. (2021). A Novel CRITIC Based Weighted FMEA Method: Application to COVID-19 Blood Testing Process. *Journal of Multiple-Valued Logic & Soft Computing*, 37, 247-275.
- **Haktanir, E.** & Kahraman, C. (2020). Interval-Valued Neutrosophic Failure Mode and Effect Analysis. *Journal of Intelligent & Fuzzy Systems*, 39(5), 6591-6601.
- **Haktanir, E.** (2020). Prioritization of Competitive Suppliers Using an Interval-Valued Pythagorean Fuzzy QFD & COPRAS Methodology. *Journal of Multiple-Valued Logic & Soft Computing*, 34(1-2), 177-199.
- **Haktanir, E.** (2020). Interval Valued Pythagorean Fuzzy Aggregation Operators Based Malcolm Baldrige National Quality Award Assessment. *Journal of Intelligent & Fuzzy Systems*, 39(5), 6431-6441.
- **Haktanir, E.** (2020). Interval-valued neutrosophic hypothesis testing. *Journal of Intelligent & Fuzzy Systems*, 38(1), 1107-1117.
- **Haktanir, E.,** & Kahraman, C. (2019). A novel interval-valued Pythagorean fuzzy QFD method and its application to solar photovoltaic technology development. *Computers & Industrial Engineering*, 132, 361-372.
- **Haktanir, E.,** & Kahraman, C. (2019). Z-fuzzy hypothesis testing in statistical decision making. *Journal of Intelligent & Fuzzy Systems*, 37(5), 6545-6555.

CONFERENCE PROCEEDINGS

- **Haktanir, E.** (2022). Risk Analysis of Digital Transformation with an Integrated Picture Fuzzy QFD and FMEA Methodology. In: Kahraman, C., Tolga, A.C., Cevik Onar, S., Cebi, S., Oztaysi, B., Sari, I.U. (eds) *Intelligent and Fuzzy Systems. INFUS 2022*. Lecture Notes in Networks and Systems, vol 504. Springer, Cham.
- Radaev, A., **Haktanir, E.**, Yatsalo, B., & Kahraman, C. (2022). Classification of Non-pharmaceutical Anti-COVID Interventions Based on Novel FTOPSIS-Sort Models. In: Kahraman, C., Tolga, A.C., Cevik Onar, S., Cebi, S., Oztaysi, B., Sari, I.U. (eds) *Intelligent and Fuzzy Systems. INFUS 2022*. Lecture Notes in Networks and Systems, vol 504. Springer, Cham.
- Yılmaz R., Nalçakan Y., & **Haktanir E.** (2021). A Novel Feature to Predict Buggy Changes in a Software System. In: Kahraman C., Cebi S., Cevik Onar S., Oztaysi B., Tolga A.C., Sari I.U. (eds) *Intelligent and Fuzzy Techniques for Emerging Conditions and Digital Transformation. INFUS 2021*. Lecture Notes in Networks and Systems, vol 308. Springer, Cham.
- **Haktanir E.**, & Kahraman C. (2021). Defects Control Charts Using Interval-Valued Pentagorean Fuzzy Sets. In C., Kahraman, S., Cevik Onar, B., Oztaysi, I.U., Sari, S., Cebi, A.C., Tolga, (Eds.), *Intelligent and Fuzzy Techniques: Smart and Innovative Solutions. INFUS 2020*. (pp. 1396-1406). Advances in Intelligent Systems and Computing, vol 1197. Springer.
- **Haktanir E.**, & Kahraman C. (2021). Design for Six Sigma and Process Capability Using Pentagorean Fuzzy Sets. In C., Kahraman, S., Cevik Onar, B., Oztaysi, I.U., Sari, S., Cebi, A.C., Tolga, (Eds.), *Intelligent and Fuzzy Techniques: Smart and Innovative Solutions. INFUS 2020*. (pp. 1385-1395). Advances in Intelligent Systems and Computing, vol 1197. Springer.
- **Haktanir E.**, & Kahraman C. (2019). Malcolm Baldrige National Quality Award Assessment Using Interval Valued Pythagorean Fuzzy Sets. In C., Kahraman, S., Cebi, S., Cevik Onar, B., Oztaysi, A., Tolga, I., Sari (Eds.), *Intelligent and Fuzzy Techniques in Big Data Analytics and Decision Making. INFUS 2019*. (pp. 1097-1103). Advances in Intelligent Systems and Computing, vol 1029. Springer, Cham.
- **Haktanir E.**, & Kahraman C. (2019). Failure Mode and Effect Analysis Using Interval Valued Neutrosophic Sets. In C., Kahraman, S., Cebi, S., Cevik Onar, B., Oztaysi, A., Tolga, I., Sari (Eds.), *Intelligent and Fuzzy Techniques in Big Data Analytics and Decision Making. INFUS 2019*. (pp. 1085-1093). Advances in Intelligent Systems and Computing, vol 1029. Springer, Cham.
- **Haktanir, E.** (2019). Make-or-Buy Decision Using Interval-Valued Intuitionistic Fuzzy COPRAS Method. In C., Kahraman, S., Cebi, S., Cevik Onar, B., Oztaysi, A., Tolga, I., Sari (Eds.), *Intelligent and Fuzzy Techniques in Big Data Analytics and Decision Making. INFUS 2019*. (pp. 634-643). Advances in Intelligent Systems and Computing, vol 1029. Springer, Cham.
- Beskese, A., & **Haktanir, E.** (2016). Influence of Human Capital and Organizational Capital on The Organizational Innovation. *Journal of Trends in the Development of Machinery and Associated Technology*, 20(1), 129-132

BOOK CHAPTERS

- **Haktanır, E.,** Kahraman, C., Şeker, Ş., & Doğan, O. (2023). Future of Digital Transformation. In: Kahraman, C., Haktanır, E. (eds) Intelligent Systems in Digital Transformation. Lecture Notes in Networks and Systems, vol 549. Springer, Cham.
- **Haktanır, E.,** Kahraman, C., Çebi, S., Otay, İ., & Boltürk, E. (2023). Digital Transformation in Automotive Sector. In: Kahraman, C., Haktanır, E. (eds) Intelligent Systems in Digital Transformation. Lecture Notes in Networks and Systems, vol 549. Springer, Cham.
- **Haktanır, E.,** Kahraman, C., Onar, S.Ç., Öztayşi, B., & Çebi, S. (2023). A State of the Art Literature Review on Digital Transformation. In: Kahraman, C., Haktanır, E. (eds) Intelligent Systems in Digital Transformation. Lecture Notes in Networks and Systems, vol 549. Springer, Cham.
- **Haktanır, E.,** & Kahraman, C. (2022). Interval-Valued Pythagorean Fuzzy Entropy Weight Method and Its Application to Supplier Selection. In: Erdebilli, B., Weber, GW. (eds) Multiple Criteria Decision Making with Fuzzy Sets. Multiple Criteria Decision Making. Springer, Cham.
- **Haktanır, E.,** Kahraman, C., & Gündoğdu, F.K. (2021). Delivery Drone Design Using Spherical Fuzzy Quality Function Deployment. In C., Kahraman, & F.K. Gündoğdu (Eds.), *Decision Making with Spherical Fuzzy Sets* (pp. 399-430). Studies in Fuzziness and Soft Computing, vol 392. Springer, Cham.
- **Haktanır, E.,** & Kahraman, C. (2020). A Literature Review on Fuzzy FMEA and an Application on Infant Car Seat Design Using Spherical Fuzzy Sets. In C., Kahraman, & S., Cebi (Eds.), *Customer Oriented Product Design* (pp. 429-449). Studies in Systems, Decision and Control, vol 279. Springer, Cham.

PROFESSIONAL SERVICE

- Organization Committee Member: International Conference of Intelligent and Fuzzy Systems
- Reviewer: Journal of Intelligent & Fuzzy Systems, Complex & Intelligent Systems, Gazi Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi

TEACHING EXPERIENCE

- Asst. Prof. Dr., Department of Industrial Engineering, Bahcesehir University, Istanbul, Turkey
 - INE3003- Engineering Economics (Fall 2022)
 - INE4013- Engineering Management (Fall 2022)
- Teaching Assistant, Department of Industrial Engineering, Altinbas University, Istanbul, Turkey
 - IE371 & END371- Engineering Economics and Finance (Summer 2021, Fall 2021)
 - IE470- Decision Analysis Models (Summer 2021, Fall 2021)
 - IE440 & END440- Scheduling (Spring 2022)
 - IE332 & END332- Production Systems Management (Spring 2022)

ADMINISTRATIVE DUTIES

- Erasmus Coordinator of the Industrial Engineering Department, Bahcesehir University (Fall 2022 -)
- Internship Advisor of the Industrial Engineering Department, Altinbas University (Spring 2020 - Spring 2022)
- International Student Representative of Industrial Engineering Department, Altinbas University (Fall 2021 – Spring 2022)
- Erasmus+ Staff Mobility for Teaching Assignment: University of Economics Varna, Bulgaria, 4-8 Nov 2019