

Curriculum Vitae

Tarık Çakar, Prof. Dr.

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1. Education – degree, discipline, institution, year:

- a. **BSc:** Istanbul Technical University, Management Engineering Department, 1988.
- b. **MSc:** Istanbul Technical University, Management Engineering Department, Thesis: Expert System Technology and A Scheduling Application, 1991.
- c. **PhD:** Istanbul Technical University, Management Engineering Department, Thesis: The Use of Neural Networks in Determination of Manufacturing Systems Design and Dispatching Rule, 1997.

2. Academic and Professional Experience – institution/entity, rank, years, full / part time:

- a. **Research Assistant:** Sakarya University, Engineering Faculty, Department of Industrial Engineering, 1989-1998.
- b. **Asst.Prof.Dr.:** Sakarya University, Engineering Faculty, Department of Industrial Engineering, 1998-2010.
- c. **Visiting Assistant Prof. Dr. :** Wichita State University, Industrial Engineering Department, 2003-2004.
- d. **Assoc. Prof.Dr. :** Sakarya University, Engineering Faculty, Department of Industrial Engineering, 2010-2012
- e. **Assoc. Prof.Dr. :** International Balkan University (Skopje/Macedonia), Engineering Faculty, Industrial Engineering Department, 2012-2015.
- f. **Prof.Dr. :** International Balkan University (Skopje/Macedonia), Engineering Faculty, Industrial Engineering Department, 2015-2016.
- g. **Assoc. Prof.Dr. :** Sakarya University, Engineering Faculty, Department of Industrial Engineering, 2016-2017.
- h. **Prof.Dr. :** Istanbul Technical University, Management Faculty, Management Engineering Department, 2017-2018.
- i. **Prof. Dr.:** İstanbul Gelişim University, Industrial Engineering Department, the Head of Department, and Institute of Science, between 2018-present.
- j. **Prof. Dr.:** İstanbul Gelişim University, Director of Innovative Entrepreneurship Research & Application Center, 2022-present.

3. Honors and Awards:

- a. Sakarya University, Letter of Appreciation for Scientific Research, 2002
- b. Sakarya University, Letter of Appreciation for Scientific Research, 2007
- c. International Balkan University, Letter of Appreciation for Scientific Research, 2015

4. Professional Development Activities: Belowe all are Professional Development Activities

- a. **Education and Theses:** Covered in Item 1.
- b. **Academic and Professional Experience:** Covered in Item 2.
- c. **Professional Credentials, Certifications, or Licensing:** Covered in Item 2.
- d. **Contributions to Discipline:** Covered in Item 5.

5. Contributions to Discipline (Service, Publications, Presentations):

Service activities:

- a. **Refereeing in Journals:** A Lot of Journals, 2005-Present.
- b. **Thesis Consultancy:** At Undergraduate, Master's, and Doctoral Levels, 1998-Present.
- c. **Associate Professorship Exam Jury Memberships:** 2018-Present.
- d. **Thesis Jury Memberships:** At All Universities, 2000-Present.
- e. **Dean of Art Faculty,** International Balkan University, 2015-2016.
- f. **Head of Industrial Engineering Department,** İGÜ Engineering Faculty, 2020-present
- g. **Board member of Engineering Faculty,** 2020-present.
- h. **Director of Innovative Entrepreneurship Application and Research Center,** İGÜ, 2022-present
- i. **Executive Board Member of Innovative Entrepreneurship Application and Research Center,** İGÜ, 2022-present
- j. **Ethics committee member,** İGÜ, 2022-present.
- k. **Scientific Committee member of İGÜ engineering Faculty.** 2023-present.

Book and Book Chapters:

- a. Özden, Kenan and **Çakar, Tarık,** (Eds): Introduction to Industrial Engineering - Basic Information Handbook. Nobel Publications No: 4317, Engineering/Technical No.417, Ankara, September 2022
- b. **Çakar, Tarık,** "Production Planning and Control", Sakarya University Publication, 2011 ISBN: 978-975-7988-86-1.
- c. **Çakar, Tarık,** "Human Factors Engineering with Solutions and Applications", Sakarya University Publication, 2011, ISBN: 978-975-7988-87-8.
- d. **Çakar, Tarık,** "Fuzzy Multiple Criteria Decision Making Technics", Gelisim University Press, 2019.
- e. **Çakar, Tarık** and Shabani, Incinur "Personnel Selection Using Fuzzy Multi Criteria Decision Making Methods", 2017, Lambert Academic Publishing.
- f. **Çakar, T.,** Yazgan H.R., Köker, R., "Paralel Robot Scheduling with Genetic Algorithms", Paralel Manipulators New Developments, Edited by Jee-Hwan Ryu, Itech Education and Publishing, ViennaAustria, 153-170, April 2008.

Articles of International Scientific Journals (SCI):

- a. **Çakar, T.** (2011). Single machine scheduling with unequal release date using neuro-dominance rule. Journal of Intelligent Manufacturing, 22, 481-490.
- b. **Çakar, T.,** Köker, R., & Sari, Y. (2012). Parallel robot scheduling to minimize mean tardiness with unequal release date and precedence constraints using a hybrid intelligent system. International Journal of Advanced Robotic Systems, 9(6), 252.
- c. Köker, R., **Çakar, T.,** & Sari, Y. (2014). A neural-network committee machine approach to the inverse kinematics problem solution of robotic manipulators. Engineering with Computers, 30, 641-649.
- d. **Çakar, T.,** Köker, R., & Canay, O. (2015). A new neuro-dominance rule for single-machine tardiness problem with double due date. Neural Computing and Applications, 26, 1439-1450.
- e. **Çakar, T.,** Keskinilic, F., Koker, R., "Optimization of Heat Treatment Process Parameters Using Neural Networks and Neider-Mead Algorithm", Journal Of Optoelectronics And Advanced Materials, Vol.17, No, 3-4, April 2015.
- f. **Çakar, T.,** & Koker, R. (2015). Solving single machine total weighted tardiness problem with unequal release date using neurohybrid particle swarm optimization approach. Computational intelligence and neuroscience, 2015, 70-70.

- g. Köker, R., & **Çakar, T.** (2016). A neuro-genetic-simulated annealing approach to the inverse kinematics solution of robots: a simulation based study. *Engineering with Computers*, 32, 553-565.
- h. Gegovska, T., Köker, R., & **Çakar, T.** (2020). Green supplier selection using fuzzy multiple-criteria decision-making methods and artificial neural networks. *Computational Intelligence and Neuroscience*.
- i. **Çakar, T.**, Köker, R., & Narin, M. A. (2021). Neurotic Fuzzy-Data-Envelopment Analysis to Forecast Efficiency of Bank Branches. *TEM JOURNAL-Technology, Education, Management, Informatics*.
- j. Kalawi, D., **Çakar, T.**, & Gurul, B. (2023). Design of sustainable campus modal in Istanbul Gelisim University using fuzzy multicriteria decision making methods 1. *Journal of Intelligent & Fuzzy Systems*,1-23.

International Conference Papers

- a. **Çakar T.**, Koker R., "Solving single robot tardiness problem using simulated annealing method", 9th Intern. Conf. Information Tech, and Management, 14-15 April 2011, Riga LATVIA.
- b. Cetiner E.R., Yilmaz A. K., Koker R., **Çakar T.**, "Design and Implementation of an Image Processing System towards detection and correction of red eye effect ", 9th Intern. Conf. Information Tech, and Management, 14-15 April 2011, Riga LATVIA.
- c. Koker, R., **Çakar, T.**, "The implementation of an inverse kinematics solution of a 3-joint robotic manipulator using neural network and genetic algorithm", International Conference of Creative Technology (UTKcreTech 2015), 19-21 August 2015, Thailand.
- d. Demir, H.I, **Çakar, T.**, Uygun, O., Simsir, F., Campolat, F., "Process Planning and Scheduling with WNOPPT Weighted Due-Date Assignment where Earliness, Tardiness and Due-Dates are Penalized", 3rd International Symposium on Innovative Technologies in Engineering and Science (ISITES 2015), 3-5 June 2015, Valencia Spain.
- e. **Çakar, T.**, Ozer, S., "Particle Swarm Optimization Approach To Solve Single Machine Total Weighted Tardiness Problem With Unequal Release Date", International Conferences on Engineering and Natural Science (ICENS 2015), 15-19 May, Skopje / Macedonia.

Conference Committee

- a. 6rd International Symposium on Intelligent Manufacturing Systems, International Program Committee, IMS'2008.
- b. The Fourt International Conference on Parallel, Distributed, Grid and Cloud Computing for Engineering, PARENG 2015, Conference Editorial Board, Dubrovnik Croatia, March 2015.
- c. The Fifth International Conference on Parallel, Distributed, Grid and Cloud Computing for Engineering, PARENG 2017, Conference Editorial Board, Pecs, Hungary, 30th-31 st May 2017.
- d. Mediterranean Natural Sciences And Engineering Congress, Scientific Committee member, MENSEC 2017, October 19-22, Podgorica, Montenegro, 2017.
- e. 11. International Symposium On Intelligent Manufacturing And Service Systems, Scientific Committee Member, 22-29 Mayıs Sakarya/ Turkey, 2021.
- f. Near East Unversity, Fifth Ternatonal Conference N Natural Resources And Sustainable Environmental Management, Scientific Committee member, 8-12 November 2021, Nicosia
- g. 41. National Conference of Operations Research and Industrial Engineering, Scientific Committee member, YAEM'2022, Denizli, Turkey, 26-28 October 2022.
- h. 12. International Symposium On Intelligence Manufacturing And Service Systems, Scientific Committee Member, Turkey, 2023.
- i. Arceng Uluslararası Fen Bilimleri Kongresi, Scientific Committee Member, Turkey, Feb 2024.