

RESUME

- 1. Name-Surname** : Ebru Turanoglu Bekar
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4. Date of Birth and Place : 1987-11-13 – Nigde/Turkey



5. Educational Background

Degree	University	Faculty/ Institution	Department	Year of Graduation
BSc	Selcuk University	Engineering Faculty	Industrial Engineering	2009
MSc	Selcuk University (started at Istanbul Technical University)	Institution of the Graduate School of Natural and Applied Sciences	Industrial Engineering	2012
PhD	Dokuz Eylul University	Institution of the Graduate School of Natural and Applied Sciences	Industrial Engineering	2016

6. Theses

6.1 PhD Thesis

Title : A Fuzzy Approach for Total Productive Maintenance Performance Measurement in Manufacturing Systems

Advisor : Professor Latif Salum & Professor Cengiz Kahraman & Professor Mehmet Cakmakci

6.2 MSc Thesis

Title : Optimization of Acceptance Sampling Plans by Attributes under Fuzzy Environment

Advisor : Professor Cengiz Kahraman

6.3 BSc Thesis

Title : Seven New Tools in Quality Management: An Application in Textile Industry

Advisor : Professor Orhan Engin

7. Publications

7.1 International Journal Papers (SCI, SCI-Expanded, SSCI, Indexed)

- 1) **Turanoglu Bekar E.**, Cakmakci, M., & Kahraman, C., 2017, Using Adaptive Neuro-Fuzzy Inference System, Artificial Neural Network and Response Surface Method to Optimize Overall Equipment Effectiveness for An Automotive Supplier Company, *Journal of Multiple-Valued Logic and Soft Computing*, 28(4-5): 375-407 (SCI-Expanded).
- 2) Kahraman, C., Suder, A., & **Turanoglu Bekar E.**, 2016, Fuzzy Multiattribute Consumer Choice among Health Insurance Options, *Technological and Economic Development of Economy*, 22 (1): 1-20 (SSCI).
- 3) Ozlem Senvar, Gozde Ulutagay, & **Turanoglu Bekar E.**, 2016, ANFIS Modeling for Forecasting Oil Consumption of Turkey, *Journal of Multiple-Valued Logic and Soft Computing*, 26 (6): 609-624 (SCI-Expanded).
- 4) **Turanoglu Bekar E.**, Cakmakci, M., & Kahraman, C., 2016, Fuzzy COPRAS Method for Performance Measurement in Total Productive Maintenance: A Comparative Analysis, *Journal of Business Economics and Management*, 17 (5): 663-684 (SSCI).
- 5) **Turanoglu Bekar E.**, Cakmakci, M., & Kahraman, C., 2015, An ANFIS Algorithm for Forecasting Overall Equipment Effectiveness Parameter in Total Productive Maintenance, *Journal of Multiple-Valued Logic and Soft Computing*, 25 (6): 535-554 (SCI-Expanded).
- 6) Kahraman, C., Öztayşi, B., Uçal Sarı, İ., & **Turanoğlu, E.**, 2014, Fuzzy Analytic Hierarchy Process with Interval Type-2 Fuzzy Sets, *Knowledge- Based Systems*, 59: 48-57 (SCI).
- 7) **Turanoglu, E.**, Kaya, İ., & Kahraman, C., 2012, Fuzzy Acceptance Sampling and Characteristic Curves, *International Journal of Computational Intelligence Systems*, 5 (1): 13-29 (SCI-Expanded).

7.2 International Refereed Journals

- 1) **Turanoglu Bekar, E.**, Ulutagay, G., & Kantarcı Savas, S., 2016, Classification of Thyroid Disease by Using Data Mining Models: A Comparison of Decision Tree Algorithms, *Oxford Journal of Intelligent Decision and Data Science*, 2016 (2): 13-28.
- 2) Senvar O., & **Turanoglu Bekar, E.**, 2013, Forecasting Student Enrollments to Universities Through Trend Centrality-Based Fuzzy Time Series, *International Journal of Information, Business and Management*, 5 (4): 151-171.
- 3) **Turanoğlu, E.**, Senvar, O., & Kahraman, C., 2012, Oil Consumption Forecasting in Turkey Using Artificial Neural Networks, *International Journal of Energy Optimization and Engineering*, 1 (4): 89-105 (ESCI).

7.3 Published Books / Chapters

- 1) Kahraman, C., **Turanoglu Bekar, E.**, & Senvar, O., 2015, Intelligent Decision Making in Quality Management, Intelligent Systems Reference Library 97, Eds. Cengiz Kahraman & Seda Yanik, *Chapter: A Fuzzy Design of Single and Double Acceptance Sampling Plans*, Vol.97, pp. 179-211.
- 2) Senvar, O., **Turanoglu, E.**, & Kahraman, C., 2012, Meta-Heuristics Optimization Algorithms in Engineering, Business, Economics, and Finance, Ed. Pandian VASANT, *Chapter: Usage of Metaheuristics in Engineering: A Literature Review*, pp. 484-528.

7.4 International Conference Papers

- 1) **Turanoglu Bekar, E.**, & Kahraman, C., 2016, Measuring Efficiency of Total Productive Maintenance (TPM) with Newly Developed Performance Measures using Fuzzy Data Envelopment Analysis, *The 24th World Congress on Engineering*, Proceedings Book, pp. 135-140, 29 June-1 July, London, United Kingdom.
- 1) **Turanoğlu Bekar, E.**, Çakmakçı, M., & Kahraman, C., 2015, Proposal of New Performance Measures & Total Productive Maintenance Performance Measurement under Fuzzy Environment, *4th International Fuzzy Systems Symposium (FUZZYSS'15)*, Proceedings Book, pp. 160-165, 5-6 November, Istanbul, Turkey.
- 2) Yurtseven, M. K., Kozanoglu, O., **Turanoglu Bekar, E.**, & Buchanan, W. W., 2014, Some educational issues in operations management and service systems, *Management of Engineering & Technology (PICMET 2014)*, Proceedings Book, pp. 1534-1540, 27-31 July, Kanazawa, Japan.
- 3) Kantarcı, S., **Turanoğlu BEKAR, E.**, & Ulutağay, G., 2013, A Comparison of Decision Tree Algorithms For The Classification of Thyroid Diagnosis, *7th International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control (ICSCCW 2013)*, Proceedings Book, pp. 142-148, 2-3 September, Izmir, Turkey.
- 4) Senvar, O., Ulutağay, G., & **Turanoglu Bekar, E.**, 2013, Forecasting Oil Consumption of Turkey Using Adaptive Neuro-Fuzzy Inference System (ANFIS), *4th International Conference on Risk Analysis and Crisis Response (RACR 2013)*, a printed book titled "Intelligent Systems and Decision Making for Risk Analysis and Crisis Response", pp. 375-381, 27-29 August, Istanbul, Turkey.
- 5) **Turanoglu Bekar, E.**, Cakmakci, M., & Kahraman, C., 2013, An ANFIS model for forecasting risk by Overall Equipment Effectiveness parameter in Total Productive Maintenance, *4th International Conference on Risk Analysis and Crisis Response (RACR 2013)*, a printed book titled "Intelligent Systems and Decision Making for Risk Analysis and Crisis Response", pp. 229-235, 27-29 August, Istanbul, Turkey.
- 6) **Turanoglu Bekar, E.**, & Cakmakci, M., 2013, A Fuzzy Approach for Total Quality Maintenance in Manufacturing Systems, *33. Yöneylem Araştırması ve Endüstri Mühendisliği Kongresi YAEM'2013-The International IIE (Institute of Industrial*

Engineers) Conference, Abstract Proceedings Book, pp. 200, 26-28 June, Istanbul, Turkey.

- 7) **Turanoglu Bekar, E., & Cakmakci, M., 2013**, An Adaptive Neuro-Fuzzy Inference System for Measurement of Total Productive Maintenance Effectiveness in Manufacturing Systems, *26th European Conference on Operational Research (EURO-INFORMS 2013)*, Abstract Proceedings Book, pp. 372, 1-4 July, Rome, Italy.
- 8) Kahraman, C., Sari, İ., & **Turanoğlu, E., 2012**, Fuzzy Analytic Hierarchy Process with Type II Fuzzy Sets, *The 10th International FLINS Conference on Uncertainty Modeling in Knowledge Engineering and Decision Making (FLINS 2012)*, Proceedings Book, pp. 201-206, 26-29 August, Istanbul, Turkey.
- 9) **Turanoğlu, E., & Kahraman, C., 2012**, A Design for Sampling Plans by Attributes under Fuzzy Environment, *25th European Conference on Operational Conference (EURO 2012)*, Abstract Proceedings Book, pp. 229, 8-11 July, Vilnius, Lithuania.
- 10) **Turanoglu, E., & Senvar, O., 2012**, Forecasting Future Enrollments to Universities of North Cyprus through Trend Centrality Based on Fuzzy Time Series, *The 10th International FLINS Conference on Uncertainty Modeling in Knowledge Engineering and Decision Making (FLINS 2012)*, Proceedings Book, pp. 937-941, 26-29 August, Istanbul, Turkey.
- 11) Kıran, M. S., **Turanoğlu, E., & Özceylan, E., 2011**, Artificial Bee Colony Approach to Estimate CO2 Emission of Turkey, *41st International Conference on Computers & Industrial Engineering (CIE 41)*, Proceedings Book, pp. 536-541, 23-26 October, Los Angeles, USA.
- 12) **Turanoğlu, E., Özceylan, E., & Kıran, M. S., 2011**, Particle Swarm Optimization and Artificial Bee Colony Approaches to Optimize of Single Input-Output Fuzzy Membership Functions, *41st International Conference on Computers & Industrial Engineering (CIE 41)*, Proceedings Book, pp. 542-547, 23-26 October, Los Angeles, USA.

7.5 National Conference Papers

- 1) **Turanoğlu Bekar, E., & Çakmakçı, M., 2015**, Development and Evaluation of Novel Performance Measures for Total Productive Maintenance under Fuzzy Environment, *35th National Congress on Operation Research and Industrial Engineering (YAEM'2015)*, Abstract Proceedings Book, pp. 20-21, 9-11 September, Middle East Technical University, Ankara, Turkey.
- 2) **Turanoğlu Bekar, E., & Çakmakçı M., 2014**, Development of Novel Performance Measures for Total Productive Maintenance based on Artificial Intelligence, *The Symposium on Production Research (UAS 2014)*, Proceedings Book, pp. 511-520, 3-5 September, Bahcesehir University, Istanbul, Turkey.
- 3) **Turanoğlu, E., & Kahraman, C., 2012**, Acceptance Sampling under Fuzziness, *32nd National Congress on Operation Research and Industrial Engineering (YAEM'2012)*, Abstract Proceedings Book, pp. 74, 20-22 June, Dogus, University, Istanbul, Turkey.

- 4) Yaldız, M., & Turanoğlu, E., 2010, Quality Tools and Techniques, *30rd National Congress on Operation Research and Industrial Engineering (YAEM'2010)*, Abstract Proceedings Book, pp. 298-299, 30 June-2 July, Sabanci University, Istanbul, Turkey.

8. Academic Assignments

Position	University	Department	Year
Research Assistant	Selcuk University	Department of Industrial Engineering	Feb 2010-Dec 2012
Research Assistant	Izmir University	Department of Industrial Engineering	Dec 2012-July 2016
Post-Doctoral Researcher	Chalmers University of Technology	Department of Industrial and Materials Science	May 2018-

9. Research Interests

- Artificial Intelligence
- Fuzzy Sets Theory
- Total Productive Maintenance
- Multi criteria Decision Making
- Statistical Quality Control
- Engineering Statistics
- Mathematical Modeling
- Forecasting

10. Refereeing Activities / Journals

- International Journal of Production Research
- Applied Soft Computing
- International Journal of Computational Intelligence Systems

11. Scholarships and Awards

- Ranked 1st among the 2005-2009 academic year graduates of Selcuk University, Department of Industrial Engineering (Score: 94.63 / 100)
- The Scientific and Technological Research Council of Turkey (TUBITAK) – National Scholarship Program for MSc Students (2009-2012)
- The Scientific and Technological Research Council of Turkey (TUBITAK) – National Scholarship Program for PhD Students (2012-2016)
- *The 24th World Congress on Engineering-Selected Best Student Paper Award (2016)*

12. Certificates

- ISO 9001:2008 Quality Management Systems (Internal Audit Certificate)
- NETSIS ERP Software Education Certificate

13. Training

- ISO 9000 Series Training Program
- General Entrepreneurial Training Program
- Research - Development and Innovation Training Program
- Business Development Training Program
- Risk Management in Real Sector Training Program
- Intellectual and Industrial Property Rights Training Program
- Body Language and Communication Training Program
- CV Preparation and Interview Techniques

14. Computer Skills

- Microsoft Office Applications (Word-Excel-Power Point) - Advanced,
- SPSS (Statistical Package Program) - Advanced,
- MINITAB (Statistical Package Program) - Advanced,
- MATLAB-MathWorks - Advanced,
- LINDO, LINGO and GAMS (Optimization Package Programs) - Advanced,
- EXPERT CHOICE, DEA-Solver, (Package Programs of Decision Support Systems) - Advanced,
- SPSS CLEMENTINE - (Data Mining Package Program) - High,
- MS Project- (Package Program of Project Management) - Medium,
- ARENA-(Simulation Package Program) – High
- R Studio (An Open Source Statistical Language)-Medium
- Python (A Programming Language)-Low

15. References

Academic	Industrial
Professor Cengiz Kahraman Department of Industrial Engineering, Faculty of Management, Istanbul Technical University Istanbul/TURKEY Phone: + 90 212 293 1300 (Ext. 2035) e-mail: kahramanc@itu.edu.tr	Nihan Cetin Lean Manager Delphi Technologies Izmir/TURKEY Phone: +90 232 488 7381 e-mail: nihan.cetin@delphi.com
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