Volkan Soner ÖZSOY, Ph.D

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Aksaray University, 68400   volkansoner1@gmail.com

Aksaray, Turkey   Phone: +90 (382) 288-3811

Education		
	Gazi University	**Ankara, Turkey**
	Ph.D. Department of Statistics, Operations Research	Oct 2019

Dissertation title: Bootstrap Approach in Dynamic Network Data Envelopment Analysis Models

Minors: Bootstrap, DEA, Simulation

Advisor: Prof. Dr. Hasan BAL

	Gazi University	**Ankara, Turkey**
	M.Sc. Department of Statistics, Operations Research	Sep 2012

Dissertation title: New Decision Support System for Performance Analysis

Minors: Computer Science, Data Envelopment Analysis, Performance Analysis

Advisor: Prof. Dr. Ihsan ALP

	Karadeniz Technical University	**Trabzon, Turkey**
	B.Sc. Department of Statistics and Computer Science	Jun 2010

Appointments

Aksaray University,   **Aksaray, Turkey**
Department of Finance, Banking, and Insurance
Assistant Profesor   Dec 2019 - present

Gazi University, Department of Statistics   **Ankara, Turkey**
Research Assistant   Jun 2013 - Dec 2019

Nigde University, Department of Statistics   **Nigde, Turkey**
Research Assistant   Jan 2012 - Jan 2013

The Ministry of Family and Social Policies   **Turkey**
Directorate General for Social Aids, Social Assistance and Solidarity Foundation
Assistant Expert   Sep 2011 - Jan 2012

Special Trainings

Big Data Analysis   **Ankara, Turkey**
Havelsan Co.   Jun 2018

English Language Education   **İstanbul, Turkey**
Marmara University   Mar 2013 - Oct 2013

Project Cycle Management (PCM)   **Ankara, Turkey**
Ministry of European Union & Gazi University   Nov 2011 - Dec 2011

Courses Taught

SPSS, AMOS, MAXQDA Courses   **Kahramanmaraş, Turkey**
Scale, Reliability and Qualitative Research Methods
Kahramanmaraş Sütçü İmam University   Jun 2019

Microsoft Office Programs Courses   **Ankara, Turkey**
Statistical Consulting, Training, Practice and Research Center (İDEAM)
Gazi University   Apr 2019

Research Interests	Methodologies: Big Data, Machine Learning, Performance Analysis, Operations Research, Optimization, Simulation, Bootstrap, Data Mining
	Applications: SPSS, Visual Studio C#, MATLAB, AMOS, DEAP, R, LaTeX, SPSS Clementine (IBM Modeler)

Journal Publications

1. **Özsoy, V.S.**, Örkcü, H.H. (**2021**) Structural and operational management of Turkish airports: a bootstrap data envelopment analysis of efficiency. *Utilities Policy*, 69, 101180. **(indexed in SSCI)**.

2. **Özsoy, V.S.**, Örkcü, M., Örkcü, H.H. (**2021**). A minimax approach for selecting the overall and stage-level most efficient unit in two stage production processes. *Annals of Operations Research.* **(indexed in SCI-Exp.)**.

3. **Özsoy, V.S.**, (**2021**). The determination of the most suitable inertia weight strategy for Particle Swarm Optimization via the minimax mixed-integer linear programming model, *Engineering Computations.* **(indexed in SCI-Exp.)**.

4. **Özsoy, V.S.**, Örkcü, H.H., Örkcü, M. (**2021**). A simplistic approach without epsilon to choose the most efficient unit in data envelopment analysis. *Expert Systems with Applications*, 54(4), 1215-1230. **(indexed in SCI-Exp.)**.

5. Küçük, A., Demirci, M., Kerman, G., **Özsoy, V.S.** (**2021**). Evaluating of Hospital Appointment Systems in Turkey: Challenges and Opportunities. *Health Policy and Technology*, 10(1), 69-74. **(indexed in SSCI)**.

6. Muvingi, J., Peer A., Lotfi, F.H. **Özsoy, V.S.**. (**2021**). Hierarchical Groups DEA Cross-efficiency and TOPSIS technique: An application on mobile money agents locations. *International Journal of Mathematics in Operational Research.* **(indexed in ESCI)**.

7. **Özsoy, V.S.**, Doğan, M.İ. (**2021**). Which Universities Use Their Spaces Efficiently? Efficiency Analysis of the Public University in Turkey. *Journal of Polytechnic*, (in press). **(indexed in ESCI)**.

8. **Özsoy, V.S.**, Ünsal, M.G. Örkcü, H.H. (**2020**). Use of the heuristic optimization in the parameter estimation of generalized gamma distribution: comparison of GA, DE, PSO and SA methods. *Computational Statistics*, 35, 1895–1925. **(indexed in SCI-Exp.)**.

9. Örkcü, M., **Özsoy, V.S.**, Örkcü, H.H. (**2020**). An Optimistic-Pessimistic DEA Model Based on Game Cross Efficiency Approach. *RAIRO Operations Research*, 54(4), 1215-1230. **(indexed in SCI-Exp.)**.

10. Küçük, A., **Özsoy, V.S.**, Balkan, D. (**2020**) Assessment of Technical Efficiency of Public Hospitals in Turkey. *European Journal of Public Health*, 30(2), 230-235. **(indexed in SSCI)**.

11. **Özsoy, V.S.**, Örkcü, M., Örkcü, H.H. (**2020**). The most efficient supplier selection with mixed-integer two-stage data envelopment analysis model. *Pamukkale University Journal of Engineering Sciences*, 26(4), 758-767. **(indexed in ESCI)**.

12. Yavuzaslanoglu, E., **Özsoy, V.S.** (**2020**). Resistance reactions of onion landraces collected from Turkey to the stem and bulb nematode Ditylenchus dipsaci. *Mediterranean Agricultural Sciences*, 33(2), 195-199. **(indexed in WoS)**

13. Örkcü, H.H., **Özsoy, V.S.**, Örkcü, M., Bal, H. (**2019**). A neutral cross efficiency approach for basic two stage production systems. *Expert Systems with Applications*, 125, 333-344. **(indexed in SCI-Exp.)**.

14. Yavuzaslanoglu, E., Sonmezoglu, O., Genc, N., Akar, Z., Ocal, A., Karaca, M., Elekcioglu, I., **Özsoy, V.S.**, & Aydogdu, M. (**2019**). Occurrence and abundance of nematodes on onion in Turkey and their relationship with soil physicochemical properties, Nematology, 21(10), 1063-1079. **(indexed in SCI-Exp.)**.

15. Alp, İ., **Özsoy, V.S.** (**2019**). A New Robust Bootstrap Algorithm for Assessment of Common Set of Weights in Performance Analysis. *Iranian Journal of Management Studies.* **(indexed in ESCI)**.

16. **Özsoy, V.S.**, Örkcü, H.H., Bal, H. (**2018**). Particle Swarm Optimization Applied to Parameter Estimation of the Four-Parameter Burr III Distribution. *Iranian Journal of Science and Technology, Transactions A: Science*, 42(2), 895-909. **(indexed in SCI-Exp.)**

17. Alp, İ., **Özsoy, V.S.** (**2017**). Two Stage Approach for the Performances of Teams in Football Using Data Envelopment Analysis. *Gazi University Journal of Science*, 30(3), 195-208. **(indexed in ESCI)**.

18. **Özsoy, V.S.**, Örkcü, H.H. (**2016**). Estimating the Parameters of Nonlinear Regression Models Through Particle Swarm Optimization. *Gazi University Journal of Science*, 29(1), 187-199. **(indexed in ESCI)**.

19. Bal, H. & **Özsoy, V.S.** (**2016**). Selecting DEA model specifications and ranking units via principal component analysis: an application of economic performance of cities. *Dumlupınar University Journal of Social Sciences*, 125-135.

20. Örkcü, H.H., **Özsoy, V.S.**, Aksoy, E., Doğan, M. I. (**2015**). Estimating the parameters of 3-p Weibull distribution using particle swarm optimization: A comprehensive experimental comparison. *Applied Mathematics and Computation*, 268, 201-226. **(indexed in SCI-Exp.)**

Papers Under Review

21. **Özsoy, V.S.**, Belgin, Ö., Balkan, D. (**2022**) A Novel approach for determining common weights in two division network DEA to evaluate the efficiency of Science and Technology Parks in Turkey. *Technology Analysis & Strategic Management.* **(indexed in SCI-Exp.)**.

22. Hamurcu, C., Oner, M.H., **Özsoy, V.S.** (**2022**) The Impact of Covid-19 Pandemic on Islamic Index in Turkey: A Behavioral Finance Approach. *International Journal of Islamic and Middle Eastern Finance and Management.* **(indexed in SSCI)**.

23. **Özsoy, V.S.**, Doğan, M. I., Örkcü, H.H. (**2022**) Performance Management of OECD Countries on Covid-19 Pandemic: A Criticism using Data Envelopment Analysis Models. *Journal of Facilities Management.* **(indexed in ESCI)**.

Book Chapters

Özsoy, V.S., (**2018**). "Network Data Envelopment Analysis", *Current Topics in Quantitative Decision Methods: Theory and Practice*, ISBN:978-605-344-767-2, Page 15-30.

Citations

Cited work: Örkcü, H.H., **Özsoy, V.S.**, Örkcü, M., Bal, H. (**2019**). A neutral cross efficiency approach for basic two stage production systems. *Expert Systems with Applications.* **(indexed in SCI).**

Cited By

1. Chen, L., Wang, S. H., & Wang, Y. M. (2020). A new data envelopment analysis clustering approach within cross-efficiency framework. Journal of the Operational Research Society, 1-10. DOI: 10.1080/01605682.2020.1857667 (indexed in SSCI).

2. Amin, G. R., & Hajjami, M. (2020). Improving DEA Cross-efficiency optimization in portfolio selection. Expert Systems with Applications, 114280. (indexed in SCI-Exp.).

3. Wang, L., Zhou, Z., Yang, Y., & Wu, J. (2020). Green efficiency evaluation and improvement of Chinese ports: A cross-efficiency model. Transportation Research Part D: Transport and Environment, 88, 102590. (indexed in SCI-Exp.).

4. Shi, H. L., Chen, S. Q., Chen, L., & Wang, Y. M. (2020). A neutral cross-efficiency evaluation method based on interval reference points in consideration of bounded rational behavior. European Journal of Operational Research. (indexed in SCI).

5. Henriques, I. C., Sobreiro, V. A., Kimura, H., & Mariano, E. B. (2020). Two-Stage DEA in Banks: Terminological Controversies and Future Directions. Expert Systems with Applications, 113632. DOI: 10.1016/j.eswa.2020.113632 (indexed in SCI-Exp.).

6. Ding, L., Yang, Y., Wang, L., & Calin, A. C. (2020). Cross Efficiency Assessment of China's marine economy under environmental governance. Ocean & Coastal Management, 193, 105245. DOI: 10.1016/j.ocecoaman.2020.105245 (indexed in SCI-Exp.).

7. Behdani, Z. & Darehmiraki, M. (2019) An Alternative Approach to Rank Efficient DMUs in DEA via Cross-Efficiency Evaluation, Gini Coefficient, and Bonferroni Mean. Journal of the Operations Research Society of China. DOI: 10.1007/s40305-019-00264-x (indexed in ESCI).

8. Ding, L., Yang, Y., Wang, W., Calin, A.C. (2019). Regional carbon emission efficiency and its dynamic evolution in China: A novel cross efficiency-malmquist productivity index. Journal of Cleaner Production. (indexed in SCI-Expanded).

9. Chen, J. X. (2019). Promoting Balance in Output Efficiencies for Cross-Efficiency Evaluation in Data Envelopment Analysis. Journal of Applied Mathematics and Physics, 7(03), 664. DOI: 10.4236/jamp.2019.73047

Cited work: **Özsoy, V.S.**, Örkcü, H. H., & Bal, H. (2018). Particle Swarm Optimization Applied to Parameter Estimation of the Four-Parameter Burr III Distribution. *Iranian Journal of Science and Technology, Transactions A: Science*, 42(2), 895-909. **(indexed in SCI).**

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1. Yonar, A., & Pehlivan, N. Y. Artificial Bee Colony with Levy Flights for Parameter Estimation of 3-p Weibull Distribution. Iran J Sci Technol Trans Sci (2020). DOI: 10.1007/s40995-020-00886-4

2. Lu, Z., Dong, L., & Zhou, J. (2019). Nonlinear Least Squares Estimation for Parameters of Mixed Weibull Distributions by Using Particle Swarm Optimization. IEEE Access, 7, 60545-60554.

3. Qiu, Y., & Jiang, S. (2019). Suppression of low-frequency vibration for rotor-bearing system of flywheel energy storage system. *Mechanical Systems and Signal Processing*, 121, 496-508. **(indexed in SCI)**.

4. Rashid, H., Siam, F.M., & Maan, N., (2018). Parameter Estimation for a Model of Ionizing Radiation Effects on Targeted Cells using Genetic Algorithm and Pattern Search Method. *MATEMATIKA*, SI, 1–13. **(indexed in ESCI)**.

Cited work: **Özsoy, V.S.**, & Örkcü, H. H. (2016). Estimating the Parameters of Nonlinear Regression Models Through Particle Swarm Optimization. *Gazi University Journal of Science*, 29(1), 187-199. **(indexed in ESCI)**.

Cited By

1. Makade, R. G., Chakrabarti, S., & Jamil, B. (2020). Real-time estimation and prediction of the mortality caused due to COVID-19 using particle swarm optimization and finding the most influential parameter. Infectious Disease Modelling. DOI: 10.1016/j.idm.2020.09.003 (indexed in ESCI).

2. Ivanov H., Anagnostopoulos C., Kolomvatsos K. (2020) In-Network Machine Learning Predictive Analytics: A Swarm Intelligence Approach. In: Mastorakis G., Mavromoustakis C., Batalla J., Pallis E. (eds) Convergence of Artificial Intelligence and the Internet of Things. Internet of Things (Technology, Communications and Computing). Springer, Cham. DOI: 10.1007/978-3-030-44907-07

3. Polatoğlu, İ., Aydın, L., Nevruz, B. Ç., & Özer, S. (2020). A Novel Approach for the Optimal Design of a Biosensor. Analytical Letters, 53:9, 1428-1445. DOI: 10.1080/00032719.2019.1709075 (indexed in SCI).

4. Bagchi, J., & Si, T. (2020). Nonlinear Regression Analysis Using Multi-Verse Optimizer. arXiv preprint arXiv:2005.10642.

5. Al Marsoomi, I. M., & Aboudi, E. H. (2020). Comparing traditional estimators and the estimators of (PSO) algorithm for some growth models of gross domestic product in Iraq. Periodicals of Engineering and Natural Sciences, 8(1), 491-507. (indexed in Scopus).

6. Ahmad A.A., Sarı, M. (2019). Parameter Estimation to an Anemia Model using The Particle Swarm Optimization. Sigma Journal of Engineering and Natural Sciences, 37(4), 1331-1343. (indexed in ESCI).

7. Mortazavi, A., Toğan, V., Daloğlu, A., & Nunhoğlu, A. (2018). Comparison of Two Metaheuristic Algorithms on Sizing and Topology Optimization of Trusses and Mathematical Functions. Gazi University Journal of Science, 31(2), 416-435. (indexed in ESCI).

8. Jasim Hassan Lazem Sabah Manfi Reza (2018). Comparison of Some Artificial Intelligence Algorithms with the Two Non-Linear Least Squares Method and the Maximum Likelihood Method of Estimating the Ratkowsky Model Using Simulation. Journal of Al-Rafidain University Faculty of Science, 43, 126-150.

9. Jalal, L. (2018) Quality of Experience Methods and Models for Multi-Sensorial Media, Ph.D. Thesis in Dept. of Electrical and Electronic Engineering University of Cagliari.

10. Michailidis, P. D. (2018). A Preliminary Performance Study on Nonlinear Regression Models using the Jaya Optimisation Algorithm. International Journal of Applied Mathematics, 48(4). **(indexed in Scopus)**.

11. Dorneles, N. A. (2018). Avaliação de algoritmos para determinação de regiões de confiança de parâmetros.

12. Jalal, L., Popescu, V., & Murroni, M. (2017). Quality-of-experience parameter estimation for multisensorial media using Particle Swarm Optimization. In Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), 2017 International Conference on, 965-970. IEEE. **(indexed in IEEE)**.

13. Demirel, G., Acar, E., Celebioglu, K., & Aradag, S. (2017). CFD-driven surrogate-based multi-objective shape optimization of an elbow type draft tube. *International Journal of Hydrogen Energy*, 42(28), 17601-17610. **(indexed in SCI)**.

14. Jalal, L., & Murroni, M. (2017). A nonlinear quality of experience model for high dynamic spatio-temporal mulsemedia. In Quality of Multimedia Experience (QoMEX), 2017 Ninth International Conference on, 1-6. **(indexed in IEEE)**.

15. Balku, Ş. (2017). Analysis of combined cycle efficiency by simulation and optimization. *Energy Conversion and Management*, 148, 174-183. **(indexed in SCI)**.

Cited work: Örkcü, H. H., **Özsoy, V.S.**, Aksoy, E., & Doğan, M. I. (2015). Estimating the parameters of 3-p Weibull distribution using particle swarm optimization: A comprehensive experimental comparison. *Applied Mathematics and Computation*, 268, 201-226. **(indexed in SCI)**.

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1. Zhou, D., Zhuang, X., & Zuo, H. (2021). A Novel Three-parameter Weibull Distribution Parameter Estimation Using Chaos Simulated Annealing Particle Swarm Optimization in Civil Aircraft Risk Assessment. Arabian Journal for Science and Engineering, 1-18. DOI: 10.1007/s13369-021-05467-0

2. Çankaya, M. N. (2021). On the estimating equations and objective functions for parameters of exponential power distribution: Application for disorder.

3. Yang, X. (2020). Application of PSO Method for Archimedean Copula Parameter Estimation in Flood (Rain) and Tide Joint Distribution Analysis. Journal of Hydrologic Engineering, 26(3), 05020052.

4. Krygin, A. (2020). Evaluation of The Weibull Distribution Parameters for Small Volume OF the sample in the Problems of Optimization of Planning Repair Works on Engineering Networks. Management of Large Systems: Proceedings, 84, 177-197. DOI: 10.25728/ubs.2020.84.9

5. Torres, M. K. V., Cruz, J. F. O., & Silupu, W. C. (2020). Optimization of the replacement time for critical repairable components. DYNA, 87(214), 93-99. DOI: 10.15446/dyna.v87n214.84509 (indexed in SCI-Expanded).

6. Çankaya, M. N. (2020). M-Estimations of Shape and Scale Parameters by Order Statistics in Least Informative Distributions on q-deformed logarithm. Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 10(3), 1984-1996. DOI: 10.21597/jist.720712

7. Çankaya, M. N. (2020). On the Robust Estimations of Location and Scale Parameters for Least Informative Distributions. Turkish Journal of Science and Technology, 15(2), 71-78. https://dergipark.org.tr/en/download/article-file/1095360

8. Júnior, S. F. A. X., Xavier, É. F. M., da Silva Jale, J., de Oliveira, T. A., & Sabino, A. L. C. (2020). An application of Particle Swarm Optimization (PSO) algorithm with daily precipitation data in Campina Grande, Paraíba,

Brazil. Research, Society and Development, 9(8), e444985841-e444985841. DOI: 10.33448/rsd-v9i8.5841

9. Liu, Y., Wang, Y., Fan, Z., Chen, X., Zhang, C., & Tan, Y. (2020). A new universal multi-stress acceleration model and multi-parameter estimation method based on particle swarm optimization. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 1748006X20918793. 10.1177/1748006X20918793 (indexed in SCI-Expanded).

10. Yonar, A., & Pehlivan, N. Y. (2020). Artificial Bee Colony with Levy Flights for Parameter Estimation of 3-p Weibull Distribution. Iran J Sci Technol Trans Sci . DOI: 10.1007/s40995-020-00886-4 (indexed in SCI-Expanded).

11. Liu, Q.B, Shi, W.K., Chen, Z.Y., Luo, L.M., Su, Z.Y., Huang, K.J. (2019) Parameter estimation of mixed reliability model based on kernel density optimal grouping and gravity search algorithm. Journal of Jilin University (Engineering and Technology Edition) 49 (6), 1818-1825.

12. Vanem, E., Gramstad, O., Bitner-Gregersen, E. M. (2019). A simulation study on the uncertainty of environmental contours due to sampling variability for different estimation methods. Applied Ocean Research, 91, 101870. **(indexed in SCI)**.

13. Zhang, J., Zhao, Y., Liu, M., Kong, L. (2019). A Tukey's g-and-h distribution based approach with PSO for degradation reliability modeling. Engineering Computations, DOI:10.1108/EC-11-2017-0428. **(indexed in SCI)**.

14. Lu, Z., Dong, L., & Zhou, J. (2019). Nonlinear Least Squares Estimation for Parameters of Mixed Weibull Distributions by Using Particle Swarm Optimization. IEEE Access, 7, 60545-60554. **(indexed in SCI)**.

15. Yang, F., Ren, H., & Hu, Z. (2019). Maximum Likelihood Estimation for Three-Parameter Weibull Distribution Using Evolutionary Strategy. Mathematical Problems in Engineering, 2019.

16. Acitas, S., Aladag, C. H., & Senoglu, B. (2019). A new approach for estimating the parameters of Weibull distribution via particle swarm optimization: An application to the strengths of glass fibre data. Reliability Engineering & System Safety, 183, 116-127. **(indexed in SCI)**.

17. Prasojo, A. P. S., & Prasetyoputra, P. (2019, June). PSO-KS Algorithm for Fitting Lognormal Distribution: Simulation and Empirical Implementation to Women's Age at First Marriage Data. In IOP Conference Series: Materials Science and Engineering (Vol. 546, No. 5, p. 052052). IOP Publishing.

18. Liu, Q., Shi, W., Chen, Z., Shang, G. (2018). Statistical distribution modeling and two-step parameter identification of vehicle bridge displacement spectrum. Transactions of the Chinese Society of Agricultural Engineering, 34 (23), pp. 67-75. DOI: 10.11975/j.issn.1002-6819.2018.23.008

19. Wu, Z., Zhang, S., & Wang, T. (2018). A cooperative particle swarm optimization with constriction factor based on simulated annealing. Computing, 100:861-880. **(indexed in SCI)**.

20. Yang, Y. (2017). A Clustering Method Based on PSO-GA Optimization Algorithm. Revista de la Facultad de Ingeniería, 32(10), 85-91.

21. Handoyo, S., Efendi, A., Jie, F., & Widodo, A. (2017). Implementation Of Particle Swarm Optimization (PSO) Algorithm For Estimating Parameter Of Arma Model Via Maximum Likelihood Method. Far East Journal of Mathematical Sciences, 102(7), 1337-1363. **(indexed in Scopus)**.

22. Okagbue, H. I., Adamu, M. O., Opanuga, A. A., Oghonyon, J. G. (2017). Classes of Ordinary Differential Equations Obtained for the Probability Functions of 3-Parameter Weibull Distribution. *In Proceedings of the World Congress on Engineering and Computer Science* (Vol. 2).**(indexed in WoS)**.

23. Mokhtari, H., & Salmasnia, A. (2017). Fitting the Three-parameter Weibull Distribution by using Greedy Randomized Adaptive Search Procedure. *International Journal of Engineering-Transactions C: Aspects* , 30(3), 424-431. **(indexed in ESCI)**.

24. Okagbue, H. I., Adamu, M. O., Opanuga, A. A., Oghonyon, J. G., & Adamu, P. I. (2017, October). 3-Parameter Weibull Distribution: Ordinary Differential Equations. In The World Congress on Engineering and Computer Science, 377-388. Springer.

25. Alavi, O., and Hooshmand Viki, A. (2017). A particle swarm optimization-based flowchart to select wind speed distribution function. *International Journal of Energy and Statistics*, 5(1), 1750003 **(indexed in ESCI)**.

26. Li, Y., Yu, W., Li, B., & Yao, R. (2016). A multidimensional model for green building assessment: A case study of a highest-rated project in Chongqing. *Energy and Buildings*, 125, 231-243. **(indexed in SCI)**.

27. Meng, W., Tonghai, J., Xiao, L., Yan, Z., Haiwei, W., (2016). Image Segmentation Based on Adaptive Inertia Weight Particle Swarm Optimization. *Rev. Téc. Ing. Univ. Zulia*, 39(2), 235-241. **(indexed in Scopus)**.

Conference Proceedings

1. **Özsoy, V.S.**, Bal, H. (2019, June 17-18). Two Stage Data Envelopment Analysis Models: Multiplicative and Additive Model. 10th *International Conference of Strategic Research on Scientific Studies and Education (ICoSReSSE)*, Rome, Italy.

2. Demir, E., **Özsoy, V.S.**, Örkcü, H.H., (2019, June 28-30). Estimation of parameters of Levy Distribution by Genetic Algorithm: a simulation study. 3rd *International Congress of Applied Sciences*, Sivas, Turkey.

3. Bal, H., **Özsoy, V.S.** (2019, June 17-18). Efficiency Analysis of Telecommunication Sector among The World's Top R&D investing companies. 10th *International Conference of Strategic Research on Scientific Studies and Education (ICoSReSSE)*, Rome, Italy.

4. Örkcü, H.H., **Özsoy, V.S.**, Örkcü, M. (2019). Cross Efficiency Model in Network Data Envelopment Analysis Models. 6th *International Symposium on Academic Studies in Science, Engineering and Architecture Sciences*, Ankara, Turkey.

5. Örkcü, H.H., **Özsoy, V.S.** (2019). Estimation of Parameters of Rayleigh Distribution by Differential Evolution Algorithm: A Simulation Study. 6th *International Symposium on Academic Studies in Science, Engineering and Architecture Sciences*, Ankara, Turkey.

6. **Özsoy, V.S.**, Örkcü, H.H, Bal, H., RTM: Interactive estimation tool for modeling real-time wind speed. 5th *International Conference on Management Information Systems (IMISC 2018)*, 2018, Ankara, Turkey.

7. **Özsoy, V.S.**, Alp, İ. R&D Index of Countries based on the R&D Performance of the World Top 2500 Companies. *1. International Mersin Symposium.* Mersin.

8. Gölcükcü, A., **Özsoy, V.S.**, Bal, H. Multiplier DEA Model in case of zero data for Cultural Development Comparison. 4th *International Congress on Social and Economic Sciences (ICSES)*, November 26-30, 2018, Budapest, Hungary.

9. Alp, İ. **Özsoy, V.S.**, NBA 2016 Sezonu Basketbol Takımların Veri Zarflama Analizi ile Performansının Değerlendirilmesi. *1. International Mersin Symposium.* Mersin, Turkey.

10. Bal, H., **Özsoy, V.S.**, Gölcükcü, A., Comparison of DEA Models for The Performance Evaluation of The World's Top R&D Investing Companies in The Automobiles Industry. *4th International Congress on Social and Economic Sciences (ICSES)*, November 26-30, 2018, Budapest, Hungary.

11. **Özsoy, V.S.**, Kocak, E., "Evaluation of the Life Index Based on Data Envelopment Analysis: Quality of Life Indexes of Turkey", *10th International Statistics Congress , 2017*, December 06 to 08, 2017 Ankara, Turkey.

12. Tüzüner, Z., Örkcü, H.H., Bal, H., **Özsoy, V.S.**, Kocak, E., "The Health Performances of the Turkey Cities by the Mixed Integer DEA Models", *10th International Statistics Congress , 2017*, December 06 to 08, 2017 Ankara, Turkey.

13. **Özsoy, V.S.**, Bal, H., "A New Variable Selection Method for Data Envelopment Analysis Through Bootstrap Approach", *International Conference on Computational and Statistical Methods in Applied Sciences (COSTAS 2017)*, November 9 to 11, 2017 Samsun, Turkey.

14. Bal, H., **Özsoy, V.S.**, Örkcü, H. H., "A New Weights Method for Cross Efficiency Based on Goal Programming in Data Envelopment Analysis", *International Conference on Computational and Statistical Methods in Applied Sciences (COSTAS 2017)*, November 9 to 11, 2017 Samsun, Turkey.

15. **Özsoy, V.S.**, Örkcü, H. H., Dogan, M. I., Bal, H., "Evaluation of Dynamic Performance of Electricity Distribution Companies in Turkey using Window Analysis", *3rd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2017)*, 24-26 May, 2017, Konya, Turkey.

16. **Özsoy, V.S.**, Örkcü, H. H., Dogan, M. I., Bal, H., "Simulation study of estimating the unknown parameters in distributions using Particle Swarm Optimization", *3rd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2017)*, 24-26 May, 2017, Konya, Turkey.

17. **Özsoy, V.S.**, Örkcü, H. H., Dogan, M. I., Bal, H., "Measuring the efficiency in the Turkish Banking Industry: Application of Data Envelopment Analysis and Malmquist Productivity Index", *3rd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2017)*, 24-26 May, 2017, Konya, Turkey.

18. Dogan, M. I., Örkcü, H. H., **Özsoy, V.S.**, Bal, H., "A Hybrid Method for Multi-Group Classification Problem", *3rd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2017)*, 24-26 May, 2017, Konya, Turkey.

19. Dogan, M. I., Örkcü, H. H., **Özsoy, V.S.**, Bal, H., "A New Two-Group Classification Method Based on Data Envelopment Analysis", *3rd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2017)*, 24-26 May, 2017, Konya, Turkey.

20. Bal, H., **Özsoy, V.S.**, "Selecting DEA model specifications and ranking units via Principal Component Analysis: A application of economic performance of cities", *International Conference on Economics, Business Management and Social Sciences (ICEBSS 2016)*, October 5-9, 2016, Sarajevo, Bosnia-Herzegovina.

21. Gölcükcü, A., **Özsoy, V.S.**, Bal, H., "Matrix Model for Multiple Group Comparison with Malmquist Data Envelopment Analysis: a Basketball League Example",

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24. **Özsoy, V.S.**, "Yapay Arı Kolonisi ile Doğrusal Olmayan Regresyon Modellerinin Parametre Tahmini", *Proceedings of 17th International Symposium on Econometrics, Operations Research and Statistics*, Page 674-675, June 2-4, 2016, Cumhuriyet University, Sivas, Turkey.

25. **Özsoy, V.S.**, Örkcü, H.H., "Benzetilmiş Tavlama Algoritması ile Üç Parametreli Weıbull Dağılımının Parametrelerinin Tahmin Edilmesi", *Proceedings of 17th International Symposium on Econometrics, Operations Research and Statistics*, Page 630-631, June 2-4, 2016, Cumhuriyet University, Sivas, Turkey.

26. **Özsoy, V.S.**, Bal, H., "Küresel Rekabetçilik Endeksinin Veri Zarflama Analizi ile Ölçülmesi ve Bootstrap Veri Zarflama Analizi Uygulaması", *Proceedings of 17th International Symposium on Econometrics, Operations Research and Statistics*, Page 640-641, June 2-4, 2016, Cumhuriyet University, Sivas, Turkey.

27. Örkcü, H.H., **Özsoy, V.S.**, "Estimating the unknown parameters of the four parameter Burr III distribution through Differential Evolution", *Proceedings of 2nd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2016)* , Page 38, May 4-8, 2016 , Hacettepe University, Ankara, Turkey.

28. Bal, H., **Özsoy, V.S.**, Örkcü, H.H., "A goal programming method selection of weights in Data Envelopment Analysis: An evaluation of efficiency of Turkish airports case", *Proceedings of 2nd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2016)* , Page 36, May 4-8, 2016 , Hacettepe University, Ankara, Turkey.

29. **Özsoy, V.S.**, Bal, H., Tüzüner, Z.,"Evaluation of performance of the highways of the European Union countries using Bootstrap Data Envelopment Analysis", *Proceedings of 2nd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2016)* , Page 37, May 4-8, 2016 , Hacettepe University, Ankara, Turkey.

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31. Tüzüner, Z., Bal, H., **Özsoy, V.S.**, "Performance Evaluation of European Union Countries Transportation with Stochastic Frontier Analysis", *Proceedings of 2nd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2016)* , Page 90, May 4-8, 2016 , Hacettepe University, Ankara, Turkey.

32. **Özsoy, V.S.**, Bal, H., "Measurement of Climate Risk Index with Data Envelopment Analysis", *Proceedings of the 35th Operations Research and Industrial Engineering Congress (ORIE 2015)* , 129-130, Sept 9-11, 2015 , METU, Ankara, Turkey.

33. **Özsoy, V.S.**, Alp, İ., "Turkish Decision Support System for Performance Analysis With C# Programming Language", *Proceedings of the 11th International Conference of Data Envelopment Analysis and Performance Measurment (DEA2013)*, 389-394, June 27-30, 2013 , Samsun, Turkey.

34. **Özsoy, V.S.**, Alp, İ., "New Decision Support System for Performance Analysis", *Proceedings of 10th International Conference on Knowledge, Economy and Management & 11th International Conference of ASIA Chapter of the AHRD & 2nd International Conference of MENA Chapter of Academy of Human Resource Development*, 494-501, Nov 8-10, 2012, İstanbul, Turkey.

35. **Özsoy, V.S.**, Alp İ., "New Decision Support System for Performance Analysis", *Proceedings of the 5th Engineering and Technology Symposium*, 114-117, Apr 26-27, 2012, Ankara, Turkey.

Reviews	
• *Referee:* Expert Systems	**(SCI-Expanded)**
• *Referee:* INFOR: Information Systems and Operational Research	**(indexed in SCI)**
• *Referee:* Gazi University Journal of Science	**(indexed in ESCI)**
• *Referee:* Gazi University Journal of Polytechnic	**(indexed in ESCI)**

- *Referee:* The 4th International Conference on Fuzzy Systems and Data Mining, Bangkok, November 16-19, 2018.
- *Referee:* 3rd International Conference on New Energy and Future Energy System
- *Referee:* The 3rd International Conference on Fuzzy Systems and Data Mining, National Dong Hwa University in Taiwan during November 24-27, 2017.

Honors

- Incentive Awards for International Scientific Publications — 2019
  TUBİTAK — Ankara, Turkey
- Incentive Awards for International Scientific Publications — 2019
  Gazi University, — Ankara, Turkey
- Honorable Mention Award — 2016
  Int. Conf. on Business Economics and Soc. Sci., — Sarajevo, Bosnia-Herzegovina
- Incentive Awards for International Scientific Publications — 2016
  Gazi University, — Ankara, Turkey
- Graduated second among 60 students in the department — 2010
  Karadeniz Technical University, — Trabzon, Turkey

Professional Society Service

- Member: International Association of Engineers (IAENG), — since 2017
- Member: International Statistical Institute (ISI), — since 2014
- Member: Bernoulli Society (BS), — since 2013
- Member: European Network for Business and Industrial Statistics (ENBIS), since 2013