

SELECTED PUBLICATIONS

Papers in peer-reviewed academic journals:

Karsak, E.E., Karadayi, M.A., "Imprecise DEA Framework for Evaluating Health-care Performance of Districts", *Kybernetes*, Vol. 46, 706-727, (2017).

Karsak, E.E., Dursun, M., "Taxonomy and Review of Non-deterministic Analytical Methods for Supplier Selection", *International Journal of Computer Integrated Manufacturing*, Vol. 29, 263-286, (2016).

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Karsak, E.E., Dursun, M., "An Integrated Supplier Selection Methodology Incorporating QFD and DEA with Imprecise Data", *Expert Systems with Applications*, Vol. 41, 6995-7004, (2014).

Dursun, M., Karsak, E.E., "A QFD-based Fuzzy MCDM Approach for Supplier Selection", *Applied Mathematical Modelling*, Vol. 37, 5864-5875, (2013).

Karsak, E.E., Sener, Z., Dursun, M., "Robot Selection Using a Fuzzy Regression-Based Decision-Making Approach", *International Journal of Production Research*, Vol. 50, No. 23, 6826-6834, (2012).

Sener, Z., Karsak, E.E., "A Decision Model for Setting Target Levels in Software Quality Function Deployment to Respond to Rapidly Changing Customer Needs", *Concurrent Engineering: Research and Applications*, Vol. 20, 19-29, (2012).

Karsak, E.E., Ece, M., "An Integrated Methodology for Supplier Evaluation and Selection Using QFD and DEA", *The Journal of Management & Engineering Integration*, Vol. 5, 34-42, (2012).

Dursun, M., Karsak, E.E., Karadayi, M.A., "Assessment of Health-Care Waste Treatment Alternatives Using Fuzzy Multi-Criteria Decision Making Approaches", *Resources, Conservation and Recycling*, Vol. 57, 98-107, (2011).

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Alptekin, S.E., Karsak, E.E., "An Integrated Decision Framework for Evaluating and Selecting E-learning Products", *Applied Soft Computing*, Vol. 11, 2990-2998, (2011).

Dursun, M., Karsak, E.E., Karadayi, M.A., "A Fuzzy Multi-Criteria Group Decision Making Framework for Evaluating Health-Care Waste Disposal Alternatives", *Expert Systems with Applications*, Vol. 38, 11453-11462, (2011).

Sener Z., Karsak, E.E., "A Combined Fuzzy Linear Regression and Fuzzy Multiple Objective Programming Approach for Setting Target Levels in Quality Function Deployment", *Expert Systems with Applications*, Vol. 38, 3015-3022, (2011).

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Sener Z., Karsak, E.E., "A Fuzzy Regression and Optimization Approach for Setting Target Levels in Software Quality Function Deployment", *Software Quality Journal*, Vol. 18, 323-339, (2010).

Sener Z., Karsak, E.E., "A Decision Model for Setting Target Levels in Quality Function Deployment Using Nonlinear Programming-Based Fuzzy Regression and Optimization", *International Journal of Advanced Manufacturing Technology*, Vol. 48, 1173-1184, (2010).

Dursun, M., Karsak, E.E., "A Fuzzy MCDM Approach for Personnel Selection", *Expert Systems with Applications*, Vol. 37, 4324-4330, (2010).

Özogul, C.O., Karsak, E.E., Tolga, E., "A Real Options Approach for Evaluation and Justification of a Hospital Information System", *Journal of Systems and Software*, Vol. 82, No. 12, 2091-2102, (2009).

Alptekin, S.E., Karsak, E.E., "E-learning Product Design Using Quality Function Deployment and Fuzzy Regression", *The Journal of Management & Engineering Integration*, Vol. 2, No. 1, 83-91, (2009).

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Karsak, E.E., "Using Data Envelopment Analysis for Evaluating Flexible Manufacturing Systems in the Presence of Imprecise Data", *International Journal of Advanced Manufacturing Technology*, Vol. 35, No. 9-10, 867-874, (2008).

Karsak, E.E., Özogul, C.O., "Valuation of Expansion Flexibility in Flexible Manufacturing System Investments Using Sequential Exchange Options", *International Journal of Systems Science*, Vol. 36, No. 5, 243-253, (2005).

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Karsak, E.E., Iscan, F., "Comparative Performance Evaluation in the Cement Sector Using Data Envelopment Analysis Incorporating Weight Restrictions and Cross Efficiency" (in Turkish), *Industrial Engineering Journal (Endustri Muhendisligi)*, Vol. 11, No. 3, 2-10, (2000).

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Refereed book chapters:

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Karsak E.E., "A Generalized Fuzzy Optimization Framework for R&D Project Selection Using Real Options Valuation", M. Gavrilova et al. (Eds.), *Lecture Notes in Computer Science*, Vol. 3982, 918-927, Springer-Verlag, (2006).

Karsak, E.E., "Choquet Integral-Based Decision Making Approach for Robot Selection", Knowledge-Based Intelligent Information and Engineering Systems, R. Khosla, R. J. Howlett and L. C. Jain (Eds.), *Lecture Notes in Artificial Intelligence*, Vol. 3682, 635-641, Springer, (2005).

Karsak, E.E., Ahiska, S.S., "Fuzzy Multi-criteria Decision Making Approach for Transport Projects Evaluation in Istanbul", O. Gervasi, M. L. Gavrilova, V. Kumar, A. Laganà, H. P. Lee, Y. Mun, D. Taniar, C. J. K. Tan (Eds.), *Lecture Notes in Computer Science*, Vol. 3483, 301-311, Springer, (2005).

Karsak, E.E., "Personnel Selection Using a Fuzzy MCDM Approach Based on Ideal and Anti-ideal Solutions", Multiple Criteria Decision Making in the New Millennium, M. Köksalan and S. Zionts (Eds.), *Lecture Notes in Economics and Mathematical Systems*, Vol. 507, 393-402, Springer, (2001).

Sample papers that have appeared as full text in refereed proceedings of international conferences:

Karsak, E.E., Goker, N., "MCDM-DEA Approach for Personnel Selection in the Banking Sector", *Proceedings of IAC in Vienna 2019*, Austria, 175-181, (2019). [Keynote paper]

Karsak, E.E., Goker, N., "Common Weight DEA-Based Modeling Approach for Performance Evaluation of Countries on the Basis of Human Development Indicators", *Proceedings of IAC 2019 in Vienna*, Austria, 170-176, (2019). [Keynote paper]

Karsak, E.E., Goker, N., "Common Weight DEA-Based Approach for Performance Assessment of Countries on the Basis of the Effects of Decent Work and Reduced Income Inequalities on Gender Equality", *Proceedings of IAC in Vienna 2018*, Austria, 212-218, (2018). [Keynote paper]

Goker, N., Karsak, E.E., "Good Health and Well-Being Performance Evaluation of Countries Using a Common Weight DEA-Based Approach", *Proceedings of AC 2018 in Prague*, Czech Republic, 77-85, (2018).

Goker, N., Karsak, E.E., "An Improved Common Weight DEA-Based Decision Making Approach for Ranking Latin American Countries", *Proceedings of MAC 2017*, Prague, Czech Republic, 268-275, (2017).

Karadayi, M.A., Karsak, E.E., "Clustering and Ranking Analysis with Imprecise Data for Evaluating Healthcare Performance of Districts in Istanbul", *Proceedings of The 21st World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2017)*, Orlando, Florida, USA, Vol. II, 163-168, (2017).

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Dursun, M., Karsak, E.E., Sener, Z., "A Fuzzy Multiple Objective Decision Making Methodology for Electricity Generation Planning", *Proceedings of the 2013 International Conference on Information and Knowledge Engineering (IKE'13)*, H.R. Arabnia, L. Deligiannidis, R. Hashemi, J. Lu (Eds.), Las Vegas Nevada, USA, 71-77, (2013).

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