

CURRICULUM VITAE



Ozan Kocadağlı

Assist. Prof. Dr.

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Education

Post. Doc. 2016 -	Engineering Technology & Industrial Distribution, Texas A&M University, USA. Research Topic: Diagnose of Brain Tumor and Neurological Diseases using Hybrid Artificial Techniques Based on Fuzzy and Bayesian Methods.
Ph.D. 2007-2012	Operational Research, Institute of Science and Technology, Mimar Sinan Fine Arts University, Istanbul, TURKEY. Thesis: Hybrid Bayesian neural networks with genetic algorithms and fuzzy membership functions
Doctorate Research 2010 - 2011	The Institute for Integrating Statistics in Decision Sciences, The George Washington University, Washington DC., USA.
M.Sc. 2004-2006	Operational Research, Institute of Science and Technology, Mimar Sinan Fine Arts University, Istanbul, TURKEY. Thesis: Fuzzy mathematical programming and portfolio analysis application
B.Sc. 1999-2004	Mathematics, Faculty of Science and Letters, Mimar Sinan Fine Arts Univ., Istanbul, TURKEY.

PROFESSIONAL EXPERIENCE

Visitor Scholar 2016 -	Engineering Technology & Industrial Distribution, Texas A&M University, USA.
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Asst. Prof. Dr. 2013 -	Department of Statistics, Faculty of Science and Letters, Mimar Sinan Fine Arts University, TURKEY.
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Research Fellow & Teaching Assistant 2010 - 2011	The Institute for Integrating Statistics in Decision Sciences, The George Washington University, Washington DC., USA.
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Research Assistant 2006 - 2010	Department of Statistics, Faculty of Science and Letters, Mimar Sinan Fine Arts University, TURKEY.
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MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

- Young Business and Industrial Statisticians (y-BIS)
- Bernoulli Society for Mathematical Statistics and Probability
- International Statistical Institute (ISI)
- The International Society for Business and Industrial Statistics (ISBIS)
- Fuzzy System Association
- Stochastic Programming Society (SPS)

AREAS OF INTEREST

Artificial Intelligence, Fuzzy Modeling, Statistics, Operational Research, Optimization, Bioinformatics, Computer-Aided Diagnosis.

PUBLICATIONS

Turksen Ö. and Kocadagli, O. (2015). Fuzzy Modeling for Replicated Response Measures by Using Type-2 Fuzzy Numbers, **Full Paper, "FUZZYSS'15: The 4th International Fuzzy Systems Symposium, Proceedings Book**, Nov. 5-6, Istanbul.

Soydaner, D. and **Kocadagli, O.** (2015) Artificial Neural Networks with Gradient Learning Algorithm for Credit Scoring, **Journal of the School of Business Administration, Istanbul University** (In Publish)

Kocadağlı, O. (2015). A Novel Hybrid Learning Algorithm For Full Bayesian Approach of Artificial Neural Networks, **Applied Soft Computing, Elsevier**, 35, 1 – 958.

Ekin, T., **Kocadagli, O.**, Nathaniel, D. B., Lawrence V. F. and Paul, M. G., (2015). Fuzzy Decision-Making in Health Systems: A Resource Allocation Model, **EURO Journal on Decision Processes, Springer**, 10.1007/s40070-015-0049-x.

Kocadağlı O. and Keskin R. (2015) A novel Portfolio Selection Model Based on Fuzzy Goal Programming with Different Importance and Priorities, **Expert Systems with Applications, Elsevier**, 42 (20), 6898–6912.

Keskin R., **Kocadağlı O.** and Cinemre N. (2015). A Novel Fuzzy Goal Programming Approach with Preemptive Structure for Optimal Investment Decisions, **Journal of Intelligent and Fuzzy Systems**, 28, 633–645. DOI:10.3233/IFS-141345.

Kocadağlı O. and Aşıkil B. (2014). Nonlinear Time Series Forecasting with Bayesian Neural Networks. **Expert Systems with Applications, Elsevier**, 41(15), 6596-6610.

Kocadağlı, O. and Keskin R. (2014). A Novel Portfolio Selection Model with Preemptive Fuzzy Goal Programming, **MakeLearn 2014: Human Capital without Borders: Knowledge and Learning for Quality of Life, ToKnowPress**, 985 – 995.

Kocadagli, O. (2013). A Novel Nonlinear Programming Approach for Estimating CAPM Beta of An Asset using Fuzzy Regression, **Expert Systems with Applications, ESWA**, Vol. 40 (3), pp. 858-865.

Kaya, C. and **Kocadağlı, O.** (2012). Portfolio Selection Model with Efficient Frontier and Beta Coefficient Constraints and Its Application, **Istanbul Commerce University Journal of Science**. 11 (22) 19 -35.

Kocadağlı, A., **Kocadağlı, O.** (2011). Evaluation of The Olive Productions in Turkey by using Time Series Analysis, **Natural Environment and Culture in the Mediterranean Region II, Cambridge Scholars Publishing, UK**, Chapter Thirty Five, pp. 473-486.

Kocadagli, O., (2011). New Approach for Multiple Fuzzy Regression with Fuzzy Output, **Inderscience Publishers, International Journal of Industrial and Systems Engineering (IJISE)**, V9 N1. ISSN (Online): 1748-5045 - ISSN (Print): 1748-5037.

Kocadagli, O. (2011). A Novel Nonlinear Programming Approach for Estimating CAPM Beta of An Asset using Fuzzy Regression, **Full Paper, Fuzzyss'11 The Second International Fuzzy Systems Symposium, Proceedings Book**, November 17-18, Ankara, pp. 62 -68.

Kocadağlı, O. (2010). Nonlinear model approach with CAPM for portfolio optimization, **Journal of the School of Business Administration, Istanbul University**, Vol 39, No 2. ISSN 1303-1732.

Kocadagli, O. (2009). New Approach for Multiple Fuzzy Regression with Fuzzy Output, **Full Paper, "FUZZYSS09: 1st International Fuzzy Systems Symposium, Proceedings Book**, October 1-2, Turkey.

Kocadağlı, O., Cinemre, N. (2008). A Fuzzy Nonlinear Model Approach for Portfolio Optimization, **Full Paper, 28th National Operational Research and Industrial Engineering Congress (YA/EM 2008)**, Proceedings Book, Full Paper. Istanbul, TURKEY.

Kocadağlı, O., Cinemre, N. (2006) Portfolio Optimization by Fuzzy Linear Programming, **Full Paper, 26th National Operational Research and Industrial Engineering Congress (YA/EM 2006)**, Proceedings Book, Full Paper, Kocaeli, TURKEY.

PRESENTATION IN CONFERENCES (Refereed)

Kocadagli, O. (2016). Classification of EEG Signals for Detection of Epileptic Seizures using Hybrid Artificial Intelligent Techniques, **International Society of Business and Industrial Statistics (ISBIS) conference**, Universitat Politècnica de Catalunya in Barcelona, Spain, June 8-10, 2016. (**Invited Speaker**).

Ozer E. and **Kocadagli, O. (2016).** Classification of EEG Signals for Detection of Epileptic Seizures using Wavelet Transforms and Artificial Neural Networks, **International Conference on Information Complexity and Statistical Modeling in High Dimensions with Applications (IC-SMHD-2016)**, Cappadocia, TURKEY, May 18 – 21, 2016.

Kocadağlı, O. (2015). A novel Portfolio Selection Model Based on Fuzzy Goal Programming with Different Importance and Priorities, **European Conference on Continuous Optimization (EUROPT 2015)**, 8 – 10 July 2015, Edinburgh, Scotland.

Kocadağlı, O. (2015). Time Series Forecasting Using Full Bayesian Approach of Artificial Neural Networks, The 27th European Conference on Operational Research (EURO 2015), 12 – 15 July 2015, Glasgow, Scotland.

Kocadağlı, O. (2014). A Novel Portfolio Selection Model with Preemptive Fuzzy Goal Programming, **MakeLearn 2014: Human Capital without Borders: Knowledge and Learning for Quality of Life**, Slovenia, Portoroz, July 25 – 28.

Kocadağlı, O., Keskin R. (2013), A Novel Fuzzy Goal Programming Approach for Optimal Investment Decisions, **The 3rd International Fuzzy Systems Symposium**, October 24-25, Istanbul, Turkey.

Kocadağlı, O. (2013), Time Series Forecasting using Bayesian Neural Networks, **y-BIS 2013: Young Business and Industrial Statisticians Meeting**, September 19-21, Istanbul.

Kocadagli, O. (2013). Hierarchical Bayesian Learning in Neural Networks using Genetic Algorithms, **13th International Conference on Stochastic Programming**, July 8-12, 2013 in Bergamo, Italy.

Kocadagli, O. (2013). Bayesian Learning with Genetic Algorithms and Fuzzy Membership Functions for Gaussian Approximation of Bayesian Neural Networks, **26th Euro-Infirms**, July 1-4, 2013 in Rome, Italy.

Kocadagli, O. (2012). A Novel Hierarchical Full Bayesian Learning by Genetic Algorithms for Neural Networks, **Joint Meeting of y-BIS and jSPE**, July 23-26, Caparica, Lisbon, Portugal.

Kocadagli, O. (2012). A novel Bayesian learning with genetic algorithm for Gaussian approximation of Bayesian neural networks, **The eighth World Congress in Probability and Statistics**, July 9 -14, 2012, Istanbul Turkey.

Kocadagli, O. (2011). Bayesian Learning of Neural Networks using Genetic Algorithms, **Young Statisticians Meeting, Trinity College**, August 19-21, Dublin, Ireland.

Kocadagli, O. (2010). The Estimating CAPM Beta of An Asset by A New Fuzzy Regression Approach, **AMAMEF2010, The Fifth General Conference on Advances Mathematical Methods in Finance**, May 3 - 9, Bled, Slovenia.

Kocadagli, O. (2009). New Approach for Multiple Fuzzy Regression with Fuzzy Output, **1st International Fuzzy Systems Symposium**, Ankara.

Kocadagli, O. (2008). The Classification By Means of Fuzzy Relations, **HDM-2008 International Conference on Multivariate Statistical Modeling & High Dimensional Data Mining**, June 19-23, 2008, Kayseri, Turkey.

Kocadağlı, O., Cinemre, N. (2008). A Fuzzy Nonlinear Model Approach for Portfolio Optimization, **28th National Operational Research and Industrial Engineering Congress (YA/EM 2008)**, Proceedings Book, Full Paper. Istanbul, TURKEY.

Kocadağlı, O. (2006). Portfolio Optimization by Fuzzy Linear Programming, **26th National Operational Research and Industrial Engineering Congress (YA/EM 2006)**, Proceedings Book, Full Paper, Kocaeli, TURKEY.

Kocadağlı, O. (2005). Linear Goal Programming approach for a Budgeting Problem, **National Econometrics and Statistics Symposium**, May 26-27, Istanbul.

GRANTS, SUPPORTS, AWARDS AND PROJECTS

- Post Doctorate Research Scholarship. **Texas A&M University, Collage Station, Texas, USA. 2016 – 2017 Supporters: TUBITAK, MSFAU.**
- Participation, Transportation and Accommodation Support for **International Society of Business and Industrial Statistics (ISBIS) conference**, Spain, June 8-10, 2016. (Invited Speaker)
Supporters: World Bank Funding and ISBIS
- Publication Award (**2014, TUBITAK**)
- Conference Support for **Young Business Meeting 2013 (y-BIS13), Sep. 19-21, Istanbul.**
Supporters: TUBITAK, ENBIS, ISBIS and MSFAU Position: Conference Chair.
- Participation, Transportation and Accommodation Support for **13th International Conference on Stochastic Programming, July 8-12, 2013, Bergamo, Italy.**
Supporters: TUBITAK and MSFAU
- Participation, Transportation and Accommodation Support for **Joint Meeting of y-BIS and jSPE, July 23-26, 2012, Caparica, Lisbon, Portugal.**
Supporters: The International Statistical Institute (ISI) and World Bank Funding
- Doctorate Research Scholarship. **Department of Decision Sciences and Statistics The Institute for Integrating Statistics in Decision Sciences, The George Washington University, Washington D.C., USA. 2010 - 2011**
Supporters: TUBITAK, MSFAU

- Participation, Transportation and Accommodation Support for **The Fifth General Conference on Advanced Mathematical Methods in Finance, AMAMEF, 2010, Bled, Slovenia.**
Supporter: European Science Foundation
- **Project:** A novel training procedure for Bayesian Neural Networks using Genetic Algorithm and Fuzzy Membership Functions (2012 - 2014)
Supporter: MSFAU

JOURNAL REFEREEING

- Applied Soft Computing (Elsevier)
- Computer Communication & Collaboration (BAP)
- International Journal of Electrical Power and Energy Systems (Elsevier)
- European Journal of Operational Research (Elsevier)
- Expert Systems with Applications (Elsevier)
- Fuzzy Sets and Systems (Elsevier)
- International Journal of Physical Sciences (Academic Journals)
- Machine Learning (Springer)
- Mathematical Problems in Engineering (Hindawi)
- Neural Computing and Applications (Springer)
- Transactions On Neural Networks and Learning Systems (IEEE)
- Telecommunication Systems (Springer)
- TWMS Journal of Applied and Engineering Mathematics

TEACHING EXPERIENCE

Undergraduate

Fuzzy Programming, Spring 2015 (Department of Statistics, Mimar Sinan FAU)

Artificial Intelligence, Spring 2015 (Department of Statistics, Mimar Sinan FAU)

Operational Research, Spring 2013, 2014 (Department of Mathematics, Mimar Sinan FAU)

Optimization II, Spring 2013, 2014 (Department of Statistics, Mimar Sinan FAU)

Optimization I, Fall 2013, 2014 (Department of Statistics, Mimar Sinan FAU)

Linear Programming, Fall 2013, 2014 (Department of Mathematics, Mimar Sinan FAU)

Probability II, Spring 2012 (Department of Mathematics, Mimar Sinan FAU)

Master and Doctorate

Data Analysis & Decision Making, Master, 2010 Fall (Teaching Assist., The George Washington Univ.)

Data Analysis & Decision Making, Master, 2011 Spring (Teaching Assist., The George Washington Univ.)

Optimization, Doctorate, 2014 Fall (Mimar Sinan FAU)

Nonlinear Programming, Doctorate, 2015 Spring (Mimar Sinan FAU)

THESIS SUPERVISION

Master Thesis: Hybrid Artificial Neural Network Approaches based Genetic Algorithms for Credit Scoring. 2014. **Author:** Derya Soydaner, Institute of Science and Technology, **Mimar Sinan Fine Arts University, Istanbul, TURKEY.**

Master Thesis: Detection of Neurological Diseases using Artificial Neural Networks, 2015. **Author:** Ezgi Özer, Institute of Science and Technology, **Mimar Sinan Fine Arts University, Istanbul, TURKEY.**

SCIENTIFIC CONFERENCE ARRANGEMENT

Y-BIS 2013: Joint Meeting of Young Business and Industrial Statisticians (Co-Chair)
supported by ENBIS, ISBIS, TUBITAK and Mimar Sinan Fine Arts University

EDITORING BOOKS, BOOK CHAPTERS ETC.

Book of Abstracts of the y-BIS 2013: Joint Meeting of Young Business and Industrial Statisticians,
Published By Mimar Sinan Fine Arts University. Edited by **Ozan Kocadagli**, Paulo Rodrigues, Nihan Acar.