

Prof. Erol EGRIOGLU
Curricula Vitae



Erol Egrioglu is a professor at Giresun University, Turkey. He received the B.Sc. degree in statistics from the University of Ondokuz Mayıs, Turkey, in 1998. He received the M.Sc. degree (M.Sc. thesis title: Bayesian analysis of ARMA model and an application) in statistics at the Faculty of Science and Arts of the University of Ondokuz Mayıs, Turkey, in 2002 and the PhD degree (PhD. thesis title: Two New Bayesian method for Autoregressive Fractionally Integrated Moving Average Model) in statistics at the Faculty of Science, of the University of Hacettepe, Turkey, in 2006. He was in Lancaster University as a visiting researcher, Marketing and Forecasting Research Center for 7 months in 2020. His research interests include time series analysis, Bayesian approaches, fuzzy inference systems, artificial neural networks, artificial intelligence optimization algorithms, deep learning and data mining.

Working Experiences

1. Ondokuz Mayıs University, 1998-2002 and 2006-2014.
2. Hacettepe University, 2002-2006.
3. Marmara University, 2014-2015.
4. Isik University, 2014-2015. (Part-Time)
5. Avrasya University, 2015-2018 (Part-Time)
6. Giresun University, 2015-

Visitings

1. University Politehnica of Bucharest, Romania, 27 May 2013 – 01 June 2013, by Erasmus Program.
2. The University of Split, Department of Mathematics, Croatia, 12-15 March 2019, by Erasmus+ Program
3. Lancaster University, Marketing and Forecasting Research Center, UK, September 2019-April 2020, Tubitak 2219.

Awards

5. The highest number of published book chapters for 2017, Science Award from Giresun University, Arts and Science Faculty, 2018.

4. The highest number of published papers in SCIE for 2016, Science Award from Giresun University, Arts and Science Faculty, 2017.
3. The highest impact factor for 2014, Science Award from Marmara University, Arts and Science Faculty, 2015.
2. Science Award from Ondokuz Mayıs University: The second scientist in the category of publishing papers in SCI in Ondokuz Mayıs University, 2010.
1. Tubitak Scientific Publications Awards: 2008-2018, Many Times

Editorial Board Membership

19. Library Hi Tech Journal, Special Issue: Informetrics on Social Network Mining: Research, Policy and Practice challenges, Guest Editor, 2020.
18. Journal of Granular Computing, Associate Editor, 2019-
17. *Enterprise Information Systems*, Special Issue on Deep Learning and Intelligent System towards Smart Manufacturing, *Guest Editor. (Taylor and Francis Group Journal)*
16. Soft Computing, Special Issue on Deep Learning: Emerging Trends, Applications and Research Challenges, Guest Editor. (Springer Journal)
15. Applied Soft Computing, Special Issue on Emerging Soft Computing Methodologies in Deep Learning and Applications, Guest Editor. (Elsevier Journal)
14. Turkish Journal of Forecasting, Founding Editor.
13. Mathematical Problems in Engineering, Guest Editor for Advanced Forecasting Methods Special Issue.
12. International Journal of Computational Science and Mathematics [IJCSM]
11. International Journal of Mathematics Research (IJMR)
10. American Journal of Applied Mathematics, <http://www.sciencepublishinggroup.com/>
9. Science Journal of Applied Mathematics and Statistics,
8. Science Journal of Business and Management
7. Artificial Intelligence and Applications
6. Transactions on Statistics and Analysis

5. Aloy Journal of Soft Computing and Applications, Associate Editor
4. Türkiye Klinikleri Biyoistatistik Dergisi
3. Global Journal of Microbiology and Biotechnology
2. American Journal of Intelligence Systems,
1. International Journal of Scientific and Statistical Computing (IJSSC)

Scientific Committee Membership

1. The WorldCIST'13 (The 2013 World Conference on Information Systems and Technologies)
2. The WorldCIST'14 (The 2014 World Conference on Information Systems and Technologies)
3. International Work-Conference on Time Series (ITISE 2014)
4. International Work-Conference on Time Series (ITISE 2015)
5. The Xth International Statistical Days Conference, 2016, Conference Chair, Giresun Turkey.
6. 3rd International Researchers, Statisticians and young statisticians Congress, 2017, Scientific Com. Member, Konya, Turkey.
7. 1st International Web Conference on Forecasting, Organizing Committee Member, Giresun, Turkey, 2017.
8. 2st International Web Conference on Forecasting, Organizing Committee Member, Giresun, Turkey, 2017.
9. 4rd International Researchers, Statisticians and young statisticians Congress, 2018, Scientific Com. Member, İzmir, Turkey.
10. International Work-Conference on Time Series (ITISE 2016)
11. International Work-Conference on Time Series (ITISE 2017)
12. International Work-Conference on Time Series (ITISE 2018)
13. XIth International Statistics Days Conference, Muğla, Turkey (2018)
14. 11th International Statistics Congress, ISDC2019, Muğla Turkey (2019)
15. International Work-Conference on Time Series (ITISE 2019)
16. ACM International Conference on Innovative Computing and Management Science (ACM ICMS2020), July 30- August 2, 2020, in Nagoya, Japan., TPC Member.
17. SMPS2020: 10th International Conference on Soft Methods in Probability and Statistics, Palacio de Congresos Conde Ansúrez. Universidad de Valladolid, Valladolid, Spain, September 16-18, 2020, TPC member.

Projects

- 5- **Erol Eğrioğlu**, New Forecasting Approaches based on artificial neural networks, fuzzy inference systems and artificial intelligence optimization techniques, Tübitak 2219, 2020.
- 4- Eren Baş, Ufuk Yolcu, Erol Eğrioğlu, Zaman Serisi analizinde Yeni Bir Bulanık Fonksiyon Yaklaşımı, Giresun University BAP 1001 projesi (Researcher), 2019.

3- Elif Bulut, **Erol Eğriođlu**, Elman Tipi YSA'ya Dayalı Yeni Bir Kısmi En Küçük Kareler Yöntemi, Ondokuz Mayıs Üni. BAP 1001 projesi. (Researcher), 2012.

2- Faruk Alpaslan, **Erol Eğriođlu**, Çađdaş Hakan Aladađ, Ufuk Yolcu, Özge Çađcađ, Mevsimsel Bulanık Zaman Serilerinin Öngörülmesinde Yeni Bir Algoritma, Ondokuz Mayıs Üni. BAP 1001 projesi. (Researcher), 2012.

1- **Erol Eğriođlu**, Çađdaş Hakan Aladađ, Ufuk Yolcu, Parçacık Sürü Optimizasyonu Ve Yapay Sinir Ağlarına Dayalı Yeni Bir Bulanık Zaman Serisi Öngörü Yöntemi, TÜBİTAK 1002 Projesi, (210T150 Nolu Proje). (Manager), 2012.

Books and Book Chapters

20- **Egrioglu E.**, Yolcu U., Baş E., Yapay Sinir Ağları, Nobel Yayınevi, 2019, Türkiye.

19- Dalar A. Z., **Egrioglu E.**, Bootstrap Type-1 Fuzzy Functions Approach for Time Series Forecasting, Trends and Perspectives in Linear Statistical Inference pp 69-87, Springer, 2018.

18- Sarıca B., **Egrioglu E.**, Asikgil B., Recurrent ANFIS for Time Series Forecasting, Advances in Time Series Forecasting: Volume 2, 156-164, Bentham Science (2017).

17- Dalar A.Z., **Egrioglu E.**, Aladađ Ç.H., Yolcu U., Fuzzy Functions Approach for Time Series Forecasting, Advances in Time Series Forecasting: Volume 2, 144-154, Bentham Science Publishers, (2017).

16- **Egrioglu E.**, Cagcag Yolcu O., Yolcu U., Bas E., Dalar A.Z., A New Neural Network Model with Deterministic Trend and Seasonality Components for Time Series Forecasting, Advances in Time Series Forecasting: Volume 2, 76-92, Bentham, (2017).

15- Bas Eren, **Egrioglu E.**, A New Fuzzy Time Series Forecasting Model with Neural Network Structure, Advances in Time Series Forecasting - Volume 2, 24-36, Bentham, (2017).

14- Cagdas Hakan Aladag, **Erol Egrioglu**, A Hybrid Forecasting Model Based on Multivariate Fuzzy Time Series and Artificial Neural Networks, Advances in time series forecasting, Bentham Science Publishers Ltd., eISBN: 978-1-60805-373-5, Editors: Aladag, C.H., Egrioglu, pp.118-129, 2012.

13- Cagdas Hakan Aladag, **Erol Egrioglu**, Cem Kadilar, Forecasting Gold Prices Series in Turkey by the Forecast Combination, Advances in time series forecasting, Bentham Science Publishers Ltd., eISBN: 978-1-60805-373-5, Editors: Aladag, C.H., Egrioglu, pp.108-117,2012.

12- **Erol Egrioglu**, Cagdas Hakan Aladag, Ufuk Yolcu, A Hybrid Forecasting Approach Combines SARIMA and Fuzzy Time Series, Advances in time series forecasting, Bentham Science Publishers Ltd., eISBN: 978-1-60805-373-5, Editors: Aladag, C.H., Egrioglu, pp.96-107, 2012.

11- **Erol Egrioglu**, Cagdas Hakan Aladag, The Effect of the Length of Interval in Fuzzy Time Series Models on Forecasting, Advances in time series forecasting, Bentham Science Publishers Ltd., eISBN: 978-1-60805-373-5, Editors: Aladag, C.H., Egrioglu, pp.64-77, 2012.

10- **Erol Egrioglu**, V. Rezan Uslu, Senem Koc, New Criteria to Compare Interval Estimates in Fuzzy Time Series Methods, Advances in time series forecasting, Bentham Science Publishers Ltd., eISBN: 978-1-60805-373-5, Editors: Aladag, C.H., Egrioglu, pp.56-63, 2012.

9- **Erol Egrioglu**, Cagdas Hakan Aladag, Ufuk Yolcu, A New Method for Forecasting Fuzzy Time Series with Triangular Fuzzy Number Observations, Advances in time series forecasting, Bentham Science Publishers Ltd., eISBN: 978-1-60805-373-5, Editors: Aladag, C.H., Egrioglu, pp.48-55, 2012.

8- Cagdas Hakan Aladag, **Erol Egrioglu**, Adaptive Weighted Information Criterion to Determine the Best Architecture, Advances in time series forecasting, Bentham Science Publishers Ltd., eISBN: 978-1-60805-373-5, Editors: Aladag, C.H., Egrioglu, pp.34-39, 2012.

7- **Erol Egrioglu**, Cagdas Hakan Aladag, Ufuk Yolcu, Comparison of Architecture Selection Criteria in Analyzing Long Memory Time Series, Advances in time series forecasting, Bentham Science Publishers Ltd., eISBN: 978-1-60805-373-5, Editors: Aladag, C.H., Egrioglu, pp.18-25, 2012.

6- Cagdas Hakan Aladag, **Erol Egrioglu**, Advanced Time Series Forecasting Methods, Comparison of Feed Forward and Elman Neural Networks Forecasting Ability: Case Study for IMKB, Advances in time series forecasting, Bentham Science Publishers Ltd., eISBN: 978-1-60805-373-5, Editors: Aladag, C.H., Egrioglu, pp.3-10, 2012.

5- **Erol Egrioglu**, Cagdas Hakan Aladag, Ufuk Yolcu, Comparison of Feed Forward and Elman Neural Networks Forecasting Ability: Case Study for IMKB, Advances in time series forecasting, Bentham Science Publishers Ltd., eISBN: 978-1-60805-373-5, Editors: Aladag, C.H., Egrioglu, E pp.11-17, 2012.

4- Aladag, C.H., **Egrioglu, E.**, Editors, (2012) Advances in time series forecasting, Bentham Science Publishers Ltd., eISBN: 978-1-60805-373-5. (Kitap Scopus'ta Taranmış ve Hacettepe Üniversitesi Tarafından Onaylanmıştır.)

3- **Egrioglu E.**, Aladag C.H., Kadilar C., "Nonlinear Forecasting with a Hybrid Approach Combining SARIMA, ARCH and ANN ", New Developments in Artificial Neural Networks Research, Editors: Robert W. Nelson, ISBN: 978-1-61324-286-5, Nova Publisher, Pub. Date: 2011, 1st quarter.

2- **Egrioglu E.**, Uslu V.R., Yolcu U., Basaran M.A., Aladag C.H., A New Approach Based On Artificial Neural Networks For High Order Bivariate Fuzzy Time Series, J.Mehnen et al. (Eds.): Applications of Soft Computing, AISC 58, pp.265-273, Springer-Verlag Berlin Heidelberg, 2009. (SCI Kapsamında)

1- Günay S., **Eğrioğlu E.**, Aladağ Ç.H., Tek Değişkenli Zaman Serileri Analizine Giriş, Hacettepe Üniversitesi yayınları, 2007.

Manuscripts and Presentations

Manuscripts in SCI or SCIE

65. Chen M.Y., Chiang H.S., Lughofer E., **Egrioglu E.** (2020) Informetrics on Social Network Mining: Research, Policy and Practice challenges, Library Hi Tech Journal. (DOI: 10.1108/LHT-05-2020-0123)

64. Chen M.Y., Chiang H.S., Lughofer E., **Egrioglu E.** (2020) Deep learning: emerging trends, applications and research challenges, Soft Computing. <https://doi.org/10.1007/s00500-020-04939-z>.

63. Bas E., **Egrioglu E.**, Yolcu U. (2020) A hybrid algorithm based on artificial bat and backpropagation algorithms for multiplicative neuron model artificial neural networks, Journal of Ambient Intelligence and Humanized Computing <https://doi.org/10.1007/s12652-020-01950-y>.

62. Kizilaslan, B., **Egrioglu, E.**, Evren, A.A. (2020). Intuitionistic fuzzy ridge regression functions, Communications in Statistics: Simulation and Computation, DOI: 10.1080/03610918.2019.1626887.

61. Bas E, Yolcu U., **Egrioglu E.**, (2020) Picture Fuzzy Regression Functions Approach for Financial Time Series based on Ridge Regression and Genetic Algorithm, Journal of Computational and Applied Mathematics, Accepted Paper, <https://doi.org/10.1016/j.cam.2019.112656>.

60. **Egrioglu E.**, Bas E., Yolcu U., Chen M.Y., (2020) Picture Fuzzy Time Series: Defining, Modeling and Creating a New Forecasting Method, Engineering Applications of Artificial Intelligence, Accepted paper.

59. Kocak C., Yolcu O.C., Bas E., Dalar A.Z., **Egrioglu E.**, (2020) A New Fuzzy Time Series Method Based on an ARMA Type Recurrent Pi-Sigma Artificial Neural Network, Soft Computing, Accepted Manuscript, DOI: 10.1007/s00500-019-04506-1.

58. Yolcu O.C., Bas E., **Egrioglu E.**, Yolcu U., (2020) A New Intuitionistic Fuzzy Functions Approach based on Hesitation Margin for Time Series Prediction, Soft Computing, Accepted Manuscript, <https://doi.org/10.1007/s00500-019-04432-2>.789.

57. Corba B.Ş., **Egrioglu E.**, Dalar. A.Z., (2020) AR–ARCH Type Artificial Neural Network for Forecasting, Neural Processing Letters, 51, 819-836, <https://doi.org/10.1007/s11063-019-10117-6>.

56- Ufuk Yolcu, **Erol Egrioglu**, Eren Bas, Ozge Cagcag Yolcu, Ali Zafer Dalar, 2020, Probabilistic forecasting, linearity and nonlinearity hypothesis tests with bootstrapped linear and nonlinear artificial neural network, Journal of Experimental & Theoretical Artificial Intelligence, 1-22, Article in Press.

55- Erol Egrioglu, Eren Bas, Ozge Cagcag Yolcu, Ufuk Yolcu, 2019, Intuitionistic time series fuzzy inference system, Engineering Applications of Artificial Intelligence 82, 175-183.

54- Erol Egrioglu, Ufuk Yolcu, Eren Bas, Ali Zafer Dalar, 2019, Median-Pi Artificial Neural Network for Forecasting, 31(1), 307-316, Neural computing & Applications.

53- Ufuk Yolcu, Eren Bas, **Erol Egrioglu**, 2018, A new fuzzy inference system for time series forecasting and obtaining the probabilistic forecasts via subsampling block bootstrap, Journal of Intelligent and Fuzzy System, 35(2), 2349-2358.

52- Sarica B., **Egrioglu E.**, Asikgil B., 2018, A New Hybrid Method for Time Series Forecasting: AR-ANFIS, Neural computing & Applications, 29(3), 749-760.

51- Eren Bas, Crina Grosan, **Erol Egrioglu**, Ufuk Yolcu, 2018, High order fuzzy time series method based on pi sigma neural network, Journal Engineering Applications of Artificial Intelligence, 72, 350-356.

50- Nihat Tak, A. Atif Evren, Müjgan Tez, **Erol Egrioglu**, 2018, Recurrent Type-1 Fuzzy Functions Approach for Time Series Forecasting, Applied Intelligence, 48, 68-77.

49- Ozge Cagcag Yolcu, Eren Bas, **Erol Egrioglu**, Ufuk Yolcu, 2018, Single Multiplicative Neuron Model Artificial Neural Network with Autoregressive Coefficient for Time Series Modelling, Neural Processing Letters, 47(3), pp. 1133-1147.

48- Inan D., **Egrioglu E.**, Sarica B., Askın Ö.E., Tez M., 2017, Particle Swarm Optimization Based Liu-Type Estimator, Communication in Statistics: Theory and Methods, Vol.46, Issue 22, 11358-11369.

47- Cagcag O., Yolcu U., **Egrioglu E.**, Aladag C.H., (2016), A High Order Fuzzy Time Series Forecasting Method Based On Operation Of Intersection, Applied Mathematical Modelling, 40, 19-20, 8750-8765.

46- Gündoğdu, Ö., **Egrioglu, E.**, Aladağ, Ç. H. & Yolcu, U. (2016). Multiplicative Neuron Model Artificial Neural Network Based on Gauss Activation Function. Neural Computing and Application, 27, 927-935.

45- Bas E., Uslu V.R., **Egrioglu E.**, (2016) Robust learning algorithm for multiplicative neuron model artificial neural networks, Expert Systems with Applications, 56(1), 80-88.

44-**Egrioglu E.**, Khashei, M. Aladag, C.H., Turksen, I.B. Yolcu, U, Advanced Time Series Forecasting Methods, Mathematical Problems in Engineering, Article Number: 918045, DOI: 10.1155/2015/918045, 2015.

- 43- Uzun, I., Gunduz, K., Celenk, P., Cicek, E., **Egrioglu, E.**, Comparing the effect of different voxel resolutions for assessment of vertical root fracture of permanent teeth, *Iranian Journal of Radiology*, 12 (3), e18290, pp. 1-7, 2015.
- 42- Yolcu, U., Bas, E., **Egrioglu, E.**, Aladag, C. H., 2015, A new multilayer feed forward network model based on trimmed mean neuron model, *Neural Network World Journal*, 25(6):587-602.
- 41- Gunduz K., Buyuk C., **Egrioglu E.**, 2015, Evaluation of the prevalence of bifid mandibular condyle detected on cone beam computed tomography images in a Turkish population, *International Journal of Morphology*, 33 (1), pp. 43-47.
- 40- Bas E., **Egrioglu E.**, Aladag C.H., Yolcu U., A fuzzy time series network to forecast linear&nonlinear time series, *Applied Intelligence*, 43, 343-355, 2015.
- 39- **Egrioglu E.**, Aladağ Ç.H., Yolcu U., Bas E. Recurrent Multiplicative Neuron Model Artificial Neural Network for Non-Linear Time Series Forecasting, *Neural Processing Letters*, 41(2), 2015, 249-258.
- 38-Cagcag Ö.**, Yolcu, U., **Egrioglu E.**, A New Robust Regression Method Based on Particle Swarm Optimization, *Communication in Statistics: Theory and Methods*, 44(6), 1270-1280, 2015.
- 37- Uslu V.R., Bas E., Yolcu U., **Egrioglu E.**, A fuzzy time series approach based on weights determined by the number of recurrences of fuzzy relations, *Swarm and Evolutionary Computation*, 15, 19-26, 2014.
- 36-** Aladağ Ç.H., Yolcu U., **Egrioglu E.**, Bas E., Fuzzy Lagged Variable Selection In Fuzzy Time Series With Genetic Algorithms, *Applied Soft Computing*, 22, 465-473, 2014.
- 35- Egrioglu E.**, PSO based High Order Time Invariant Fuzzy Time Series Method: Application to Stock Exchange Data, *Economic Modelling*, 38, 633-639, 2014.
- 34- Bas E., Uslu V.R., Yolcu U., **Egrioglu E.**, A modified genetic algorithm for forecasting fuzzy time series, *Applied Intelligence*, 41(2),453-463, 2014.
33. Aladağ C.H., Yolcu U., **Egrioglu E.**, Robust multilayer neural network based on Median Neuron Model, *Neural Computing and Application*, 24, 945-956, 2014.
32. Yolcu U., Çağcağ Y. Ö., Aladag C. H., **Egrioglu E.**, An enhanced fuzzy time series forecasting method based on artificial bee colony algorithm, *Journal of Intelligent and Fuzzy Systems*, 26(6), 2627-2637, 2014.
- 31- Aladağ C.H., **Egrioglu E.**, Yolcu U., Uslu, V. R., A High Order Seasonal Fuzzy Time Series Model and Application to Tourism Data of Turkey, *Journal of Intelligent and Fuzzy Systems*, 26(1),295-302, 2014.

- 30- Aladag C.H., Yolcu U., **Egrioglu E.**, A new multiplicative seasonal neural network model based on particle swarm optimization, *Neural Processing Letters*, 2013, 37(3), 251-262.
29. **Egrioglu E.**, Yolcu U., Aladağ C.H., Kocak C., An ARMA Type Fuzzy Time Series Forecasting Method Based on Particle Swarm Optimization, *Mathematical Problems in Engineering*, Volume 2013, Article ID 935815, 12 pages, <http://dx.doi.org/10.1155/2013/935815>, 2013.
28. Avsever H., Gunduz K., Uzun K.O.I., Ozmen B., **Egrioglu E.**, Midilli M., Comparison of intraoral radiography and cone-beam computed tomography for the detection of horizontal root fractures: an in vitro study, *Clin Oral Invest*, DOI 10.1007/s00784-013-0940-4, 2013.
27. Yolcu U., Aladağ C.H., **Egrioglu E.**, A New Linear & Nonlinear Artificial Neural Network Model for Time Series Forecasting, *Decision support System Journals*, 54, 1340-1347, **2013**.
26. Aladağ C.H., **Egrioglu E.**, Yolcu U., A Simulation Based Approach to Calculate the Fuzzy Correlation Coefficient of Fuzzy Observations, *Hacettepe Journal of Mathematics and Statistics*, 43, 361-364, 2012.
- 25- Sibel Aladag, Cagdas Hakan Aladag, Turhan Menten, **Egrioglu E.**, A New Seasonal Fuzzy Time Series Method Based on Multiplicative Neuron Model and SARIMA, *Hacettepe Journal of Mathematics and Statistics*, 43, 337-345, 2012.
- 24- F. Alpaslan, O. Cagcag, C.H. Aladag, U. Yolcu, **E. Egrioglu**, A Novel Seasonal Fuzzy Time Series Method, *Hacettepe Journal of Mathematics and Statistics*, 43, 375-385, 2012.
- 23-** Gunduz K., Avsever H., Orhan K., Celenk P. Ozmen B., Cicek E., **Egrioglu E.**, Karacaylı U., Comparison of intraoral radiography and cone-beam computed tomography for the detection of vertical root fractures: an in vitro study, *Oral Radiology*, DOI 10.1007/s11282-012-0098-9, Vol. 29, p 6-12, 2013.
- 22-** Yolcu, U., Aladag, C. H., **Egrioglu, E.**, Uslu, V. R., Time series forecasting with a novel fuzzy time series approach: an example for Istanbul stock market, *Journal of Statistical Computation and Simulation*, 83, 4, 597-610, 2013.
- 21- Aladag, C. H., Yolcu, U., **Egrioglu, E.**, Dalar A.Z., A new time invariant fuzzy time series forecasting method based on particle swarm optimization, *Applied Soft Computing*, 12,3291-3299, 2012.
- 20- **Egrioglu E.**, Aladağ C.H., Yolcu U., A Hybrid Fuzzy Time Series Forecasting Model Based on Fuzzy C-Means and Artificial Neural Networks, *Expert Systems with Applications*, 40, 854-857, 2013.
- 19-** Misir A.F., Manisali M., **Egrioglu E.**, Naini F.B., Retrospective Analysis of Nasal Soft Tissue Profile Changes With Maxillary Surgery, *Journal of Oral and Maxillofacial Surgery*, 69, 190-194, 2011.

18- **Egrioglu, E.**, Aladag, C. H., Yolcu, U., Uslu, V. R., Erilli, N. A., Fuzzy Time Series Forecasting Method Based on Gustafson-Kessel Fuzzy Clustering, Expert Systems with Applications, 38, 10355-10357, 2011.

17- Erilli N.A., Yolcu U., **Egrioglu E.**, Aladag C.H., Öner Y., Determining the most proper number of cluster in fuzzy clustering by using artificial neural networks, Expert Systems with Applications, 38, 2248-2252, 2011.

16- Egrioglu E., Aladag Ç.H, Başaran M.A., Uslu V.R., Yolcu U., A New Approach Based on the Optimization of the Length of Intervals in Fuzzy Time Series”, Journal of Intelligent and Fuzzy Systems,22,15-19, 2011.

15- Aladag C.H., **Egrioglu E.**, Yolcu U., Forecast Combination Using Artificial Neural Networks, Neural Processing Letters, 32, 269-276, 2010.

14- Aladag C.H., Yolcu U., **Egrioglu E.**, A high order fuzzy time series forecasting model based on adaptive expectation and artificial neural Networks, Mathematics and Computers in Simulation, 81,875-882, 2010.

13- Egrioglu E. and Günay S., Two New Methods for Bayesian Model Selection in ARFIMA Models, Expert Systems with Applications, 2010, 37, 8359-8364.

12- Aladag C.H., **Egrioglu E.**, Gunay S., Murat A Basaran, Improving weighted information criterion by using optimization, Journal of Computational and Applied Mathematics. 2010, 233, 2683-2687.

11- Aladag C.H., **Egrioglu E.**, Kadılar C., Modeling Brain Wave Data by Using Artificial Neural Networks, Hacettepe Journal of Mathematics and Statistics, 39(1),81-88, 2010.

10- Egrioglu E., Aladag C.H., Yolcu U., Uslu V.R., Basaran M.A., Finding an Optimal Interval Length in High Order Fuzzy Time Series, Expert Systems with Applications, 37, 5052-5055, 2010.

9- Aladag, C.H., Basaran, M.A., **Egrioglu, E.**, Yolcu, U., Uslu, V.R., Forecasting in High Order Fuzzy Times Series by Using Neural Networks to Define Fuzzy Relations, Expert Systems with Applications, 36, 4228-4231, 2009.

8- Yolcu U., **Egrioglu E.**, Uslu V.R., Başaran M.A., Aladag Ç.H., A New Approach for Determining the Length of Intervals for Fuzzy Time Series, Applied Soft Computing,9,647-651,2009.

7- Egrioglu E., Aladag Ç.H., U.Yolcu, A. Başaran, V.R. Uslu., A New Hybrid Approach Based on SARIMA and Partial High Order Bivariate Fuzzy Time Series Forecasting Model, Expert Systems with Applications, 36, 7424-7434, 2009.

6- Aladag Ç.H., **Egrioglu E.** and Kadilar C. Forecasting nonlinear time series with a hybrid methodology, Applied Mathematic Letters, 22, 1467-1470,2009.

5- **Egrioglu E.**, Aladag C.H., Yolcu U., Uslu V.R., Basaran M.A., A New Approach Based on Artificial Neural Networks for High Order Multivariate Fuzzy Time Series, Expert Systems with Applications, 36, 10589-10594, 2009.

4- **Egrioglu E.**, Uslu V.R., Yolcu U., Basaran M.A., Aladag C.H., A New Approach Based On Artificial Neural Networks For High Order Bivariate Fuzzy Time Series, J.Mehnen et al. (Eds.): Applications of Soft Computing, AISC 58, pp.265-273, Springer-Verlag Berlin Heidelberg, 2009.

3- Mısır F.A., Sumer M., Yenisey M., **Egrioglu E.**, Effect Of Surgical Drill Guide On Heat Generated From Implant Drilling, Journal of Oral and Maxillofacial Surgery,67, 2663-2668, 2009.

2- **Egrioglu E.**, Aladağ Ç.H. and Gunay S., A New Architecture Selection Strategy in Solving Seasonal Autoregressive Time Series by Artificial Neural Networks, Hacettepe Journal of Mathematics and Statistics, Volume 37, Issue 2, 2008.

1- **Egrioglu E.**, Aladağ Ç.H. and Gunay S., A New Model Selection Strategy In Artificial Neural Network, Applied Mathematics and Computation, 195, 591-597, 2008.

Manuscripts in Other Indexes

50- Atila Göktaş, Erol Eğrioğlu & Rukiye Dağalp (2019) Special Issue: 11th International Statistics Days Conference, Communications in Statistics: Case Studies, Data Analysis and Applications, 5:3, 167-167, DOI: 10.1080/23737484.2019.1649391.

49- Bas E., Yolcu U., Egrioglu, 2020, Intuitionistic Fuzzy Time Series Functions Approach for Time Series Forecasting, Granular Computing, Accepted Paper.

48- Egrioglu E., Yolcu U., Bas E., 2019, Intuitionistic high order fuzzy time series forecasting method based on pi-sigma artificial neural networks trained by artificial bee colony, Granular Computing, 4,4,639-654.

47- Bas E., **Egrioglu E.**, Yolcu U., Grosan C., 2019, Type 1 fuzzy function approach based on ridge regression for forecasting, Granular Computing, 4, 4, 629-637.

46- Akdeniz E., **Egrioglu E.**, Bas E., Yolcu U. (2018) Recurrent Pi-Sigma Neural Network, Journal of Artificial Intelligence and Soft Computing Research, 8(2),121-132.

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