

Assoc. Prof. ÇAĞDAŞ HAKAN ALADAĞ

Personal Information

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Education Information

Post Doctorate, University Of Toronto, Faculty Of Science, Department Of Mechanical And Industrial Engineering, Canada
2014 - Continues

Doctorate, Hacettepe Üniversitesi, Fen Fakültesi, İstatistik, Turkey 2004 - 2009

Postgraduate, Hacettepe Üniversitesi, Fen Fakültesi, İstatistik, Turkey 2001 - 2004

Undergraduate, Hacettepe Üniversitesi, Fen Fakültesi, İstatistik, Turkey 1997 - 2001

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Yapay sinir ağlarının mimari seçimi için tabu arama algoritması, Hacettepe Üniversitesi, Fen Bilimleri
Enstitüsü, İstatistik (Dr), 2009

Postgraduate, Tabu arama logaritması ile bir ders zaman çizelgeleme probleminin çözümü, Hacettepe Üniversitesi, Fen
Bilimleri Enstitüsü, İstatistik (YI) (Tezli), 2004

Research Areas

Computer Sciences, algorithms, Artificial Intelligence, Computer Learning and Pattern Recognition, Neural Networks,
Industrial Engineering , Optimization Theory and Methods, Global Optimization, Heuristic Methods, Integer and Mixed
Integer Programming, Statistics, Statistical Analysis and Applications, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Hacettepe University, Fen Fakültesi, İstatistik Bölümü, 2020 - Continues

Associate Professor, Hacettepe University, Fen Fakültesi, İstatistik Bölümü, 2013 - 2020

Lecturer PhD, Hacettepe University, Fen Fakültesi, İstatistik Bölümü, 2009 - 2013

Academic and Administrative Experience

Vice Dean, Hacettepe University, Fen Fakültesi, İstatistik Bölümü, 2021 - Continues

Courses

Bilgisayar Programlamaya Giriş, Undergraduate, 2021 - 2022
Zeki Optimizasyon Yöntemleri, Undergraduate, 2020 - 2021
Veri Bilimi, Undergraduate, 2020 - 2021
Tamsayılı Programlama, Postgraduate, 2020 - 2021
Esnek Hesaplama Yöntemleri, Postgraduate, 2020 - 2021
Makine Öğrenmesine Giriş, Postgraduate, 2020 - 2021
Yöneylem Araştırmasına Giriş, Undergraduate, 2020 - 2021

Advising Theses

ALADAĞ Ç. H. , Markov geçiş matrisine dayalı mevsimsel bulanık zaman serisi, Doctorate, H.GÜNEY(Student), 2016
ALADAĞ Ç. H. , Portföy optimizasyonunda değiştirilmiş parçacık sürü optimizasyonu yaklaşımı, Postgraduate, I.YAMAN(Student), 2014

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Fuzzy logic-based bidding strategies in dynamic double auctions**
Unal B., ALADAĞ Ç. H.
KYBERNETES, vol.48, no.3, pp.612-635, 2019 (Journal Indexed in SCI)
- II. **A new approach for estimating the parameters of Weibull distribution via particle swarm optimization: An application to the strengths of glass fibre Cheek tor data**
ACITAŞ Ş., ALADAĞ Ç. H. , ŞENOĞLU B.
RELIABILITY ENGINEERING & SYSTEM SAFETY, vol.183, pp.116-127, 2019 (Journal Indexed in SCI)
- III. **A Novel Stochastic Seasonal Fuzzy Time Series Forecasting Model**
GÜNEY H., BAKIR M. A. , ALADAĞ Ç. H.
INTERNATIONAL JOURNAL OF FUZZY SYSTEMS, vol.20, no.3, pp.729-740, 2018 (Journal Indexed in SCI)
- IV. **High order fuzzy time series forecasting method based on an intersection operation**
Yolcu O. C. , YOLCU U., EĞRİOĞLU E., ALADAĞ Ç. H.
APPLIED MATHEMATICAL MODELLING, vol.40, pp.8750-8765, 2016 (Journal Indexed in SCI)
- V. **Multiplicative neuron model artificial neural network based on Gaussian activation function**
GÜNDOĞDU Ö., Egrioglu E., ALADAĞ Ç. H. , YOLCU U.
NEURAL COMPUTING & APPLICATIONS, vol.27, no.4, pp.927-935, 2016 (Journal Indexed in SCI)
- VI. **Fuzzy-time-series network used to forecast linear and nonlinear time series**
BAŞ E., Egrioglu E., ALADAĞ Ç. H. , YOLCU U.
APPLIED INTELLIGENCE, vol.43, no.2, pp.343-355, 2015 (Journal Indexed in SCI)
- VII. **Recurrent Multiplicative Neuron Model Artificial Neural Network for Non-linear Time Series Forecasting**
EĞRİOĞLU E., YOLCU U., ALADAĞ Ç. H. , BAŞ E.
NEURAL PROCESSING LETTERS, vol.41, no.2, pp.249-258, 2015 (Journal Indexed in SCI)
- VIII. **A NEW MULTILAYER FEEDFORWARD NETWORK BASED ON TRIMMED MEAN NEURON MODEL**
YOLCU U., BAŞ E., Egrioglu E., ALADAĞ Ç. H.
NEURAL NETWORK WORLD, vol.25, no.6, pp.587-602, 2015 (Journal Indexed in SCI)
- IX. **A novel membership value based performance measure**
ALADAĞ Ç. H. , TÜRKŞEN İ. B.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.28, no.2, pp.919-928, 2015 (Journal Indexed in SCI)
- X. **Fuzzy lagged variable selection in fuzzy time series with genetic algorithms**
ALADAĞ Ç. H. , Yolcu U., EĞRİOĞLU E., Bas E.
APPLIED SOFT COMPUTING, vol.22, pp.465-473, 2014 (Journal Indexed in SCI)
- XI. **Robust multilayer neural network based on median neuron model**

- ALADAĞ Ç. H. , EĞRİOĞLU E., YOLCU U.
NEURAL COMPUTING & APPLICATIONS, vol.24, pp.945-956, 2014 (Journal Indexed in SCI)
- XII. **A high order seasonal fuzzy time series model and application to international tourism demand of Turkey**
ALADAĞ Ç. H. , EĞRİOĞLU E., Yolcu U., USLU V. R.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.26, no.1, pp.295-302, 2014 (Journal Indexed in SCI)
- XIII. **An enhanced fuzzy time series forecasting method based on artificial bee colony**
YOLCU U., Cagcag O., ALADAĞ Ç. H. , EĞRİOĞLU E.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.26, no.6, pp.2627-2637, 2014 (Journal Indexed in SCI)
- XIV. **Using Artificial Neural Networks in Fuzzy Time Series Analysis**
Aladag C. H.
RECENT DEVELOPMENTS AND NEW DIRECTIONS IN SOFT COMPUTING, vol.317, pp.443-451, 2014 (Journal Indexed in SCI)
- XV. **A New Multiplicative Seasonal Neural Network Model Based on Particle Swarm Optimization**
ALADAĞ Ç. H. , YOLCU U., EĞRİOĞLU E.
NEURAL PROCESSING LETTERS, vol.37, no.3, pp.251-262, 2013 (Journal Indexed in SCI)
- XVI. **Time-series forecasting with a novel fuzzy time-series approach: an example for Istanbul stock market**
Yolcu U., ALADAĞ Ç. H. , EĞRİOĞLU E., USLU V. R.
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.83, no.4, pp.597-610, 2013 (Journal Indexed in SCI)
- XVII. **A new linear & nonlinear artificial neural network model for time series forecasting**
YOLCU U., EĞRİOĞLU E., ALADAĞ Ç. H.
DECISION SUPPORT SYSTEMS, vol.54, no.3, pp.1340-1347, 2013 (Journal Indexed in SCI)
- XVIII. **Using multiplicative neuron model to establish fuzzy logic relationships**
Aladag C. H.
EXPERT SYSTEMS WITH APPLICATIONS, vol.40, no.3, pp.850-853, 2013 (Journal Indexed in SCI)
- XIX. **Fuzzy time series forecasting with a novel hybrid approach combining fuzzy c-means and neural networks**
EĞRİOĞLU E., ALADAĞ Ç. H. , YOLCU U.
EXPERT SYSTEMS WITH APPLICATIONS, vol.40, no.3, pp.854-857, 2013 (Journal Indexed in SCI)
- XX. **An ARMA Type Fuzzy Time Series Forecasting Method Based on Particle Swarm Optimization**
EĞRİOĞLU E., YOLCU U., ALADAĞ Ç. H. , KOÇAK C.
MATHEMATICAL PROBLEMS IN ENGINEERING, vol.2013, 2013 (Journal Indexed in SCI)
- XXI. **A new time invariant fuzzy time series forecasting method based on particle swarm optimization**
ALADAĞ Ç. H. , YOLCU U., EĞRİOĞLU E., Dalar A. Z.
APPLIED SOFT COMPUTING, vol.12, no.10, pp.3291-3299, 2012 (Journal Indexed in SCI)
- XXII. **A NEW SEASONAL FUZZY TIME SERIES METHOD BASED ON THE MULTIPLICATIVE NEURON MODEL AND SARIMA**
Aladag S., ALADAĞ Ç. H. , MENTEŞ T., EĞRİOĞLU E.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.41, no.3, pp.337-345, 2012 (Journal Indexed in SCI)
- XXIII. **A SIMULATION BASED APPROACH TO CALCULATE THE FUZZY CORRELATION COEFFICIENT OF FUZZY OBSERVATIONS**
ALADAĞ Ç. H. , EĞRİOĞLU E., YOLCU U.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.41, no.3, pp.361-364, 2012 (Journal Indexed in SCI)
- XXIV. **A tabu search meta-heuristic approach to the dual response systems problem**
ALADAĞ Ç. H. , Koeksoy O.
EXPERT SYSTEMS WITH APPLICATIONS, vol.38, no.12, pp.15370-15376, 2011 (Journal Indexed in SCI)
- XXV. **A new architecture selection method based on tabu search for artificial neural networks**
Aladag C. H.
EXPERT SYSTEMS WITH APPLICATIONS, vol.38, no.4, pp.3287-3293, 2011 (Journal Indexed in SCI)

- XXVI. **Determining the most proper number of cluster in fuzzy clustering by using artificial neural networks**
Erilli N. A. , Yolcu U., EĞRİOĞLU E., ALADAĞ Ç. H. , ÖNER Y.
EXPERT SYSTEMS WITH APPLICATIONS, vol.38, no.3, pp.2248-2252, 2011 (Journal Indexed in SCI)
- XXVII. **A new approach based on the optimization of the length of intervals in fuzzy time series**
EĞRİOĞLU E., ALADAĞ Ç. H. , Basaran M. A. , Yolcu U., USLU V. R.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.22, no.1, pp.15-19, 2011 (Journal Indexed in SCI)
- XXVIII. **Forecast Combination by Using Artificial Neural Networks**
ALADAĞ Ç. H. , EĞRİOĞLU E., Yolcu U.
NEURAL PROCESSING LETTERS, vol.32, no.3, pp.269-276, 2010 (Journal Indexed in SCI)
- XXIX. **A high order fuzzy time series forecasting model based on adaptive expectation and artificial neural networks**
ALADAĞ Ç. H. , Yolcu U., EĞRİOĞLU E.
MATHEMATICS AND COMPUTERS IN SIMULATION, vol.81, no.4, pp.875-882, 2010 (Journal Indexed in SCI)
- XXX. **Finding an optimal interval length in high order fuzzy time series**
EĞRİOĞLU E., ALADAĞ Ç. H. , Yolcu U., USLU V. R. , Basaran M. A.
EXPERT SYSTEMS WITH APPLICATIONS, vol.37, no.7, pp.5052-5055, 2010 (Journal Indexed in SCI)
- XXXI. **Improving weighted information criterion by using optimization**
ALADAĞ Ç. H. , EĞRİOĞLU E., GÜNAY S., Basaran M. A.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.233, no.10, pp.2683-2687, 2010 (Journal Indexed in SCI)
- XXXII. **MODELING BRAIN WAVE DATA BY USING ARTIFICIAL NEURAL NETWORKS**
ALADAĞ Ç. H. , EĞRİOĞLU E., KADILAR C.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.39, no.1, pp.81-88, 2010 (Journal Indexed in SCI)
- XXXIII. **The effect of neighborhood structures on tabu search algorithm in solving course timetabling problem**
ALADAĞ Ç. H. , Hocaoglu G., Basaran M. A.
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.10, pp.12349-12356, 2009 (Journal Indexed in SCI)
- XXXIV. **Forecasting nonlinear time series with a hybrid methodology**
ALADAĞ Ç. H. , EĞRİOĞLU E., KADILAR C.
APPLIED MATHEMATICS LETTERS, vol.22, no.9, pp.1467-1470, 2009 (Journal Indexed in SCI)
- XXXV. **A new approach based on artificial neural networks for high order multivariate fuzzy time series**
EĞRİOĞLU E., ALADAĞ Ç. H. , Yolcu U., USLU V. R. , Basaran M. A.
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.7, pp.10589-10594, 2009 (Journal Indexed in SCI)
- XXXVI. **A new hybrid approach based on SARIMA and partial high order bivariate fuzzy time series forecasting model**
EĞRİOĞLU E., ALADAĞ Ç. H. , Yolcu U., Basaran M. A. , USLU V. R.
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.4, pp.7424-7434, 2009 (Journal Indexed in SCI)
- XXXVII. **A new approach for determining the length of intervals for fuzzy time series**
Yolcu U., EĞRİOĞLU E., USLU V. R. , Basaran M. A. , ALADAĞ Ç. H.
APPLIED SOFT COMPUTING, vol.9, no.2, pp.647-651, 2009 (Journal Indexed in SCI)
- XXXVIII. **A NEW ARCHITECTURE SELECTION STRATEGY IN SOLVING SEASONAL AUTOREGRESSIVE TIME SERIES BY ARTIFICIAL NEURAL NETWORKS**
ALADAĞ Ç. H. , EĞRİOĞLU E., GÜNAY S.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.37, no.2, pp.185-200, 2008 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **The CSS and The Two-Stage Methods for Parameter Estimation in SARFIMA Models**
EĞRİOĞLU E., ALADAĞ Ç. H. , KADILAR C.

Refereed Congress / Symposium Publications in Proceedings

- I. **Volcanic Ash –Aircraft Encounter Damages: in Volcanological Point of View**
AYDAR E., ALADAĞ Ç. H. , MENTEŞ T.
European Geosciences Union, Viyana, Austria, 22 - 30 April 2017
- II. **Artificial Neural Network Models for Forecasting Tourist Arrivals to Barcelona**
Alptekin B., ALADAĞ Ç. H.
25th International Conference on Artificial Neural Networks (ICANN), Barcelona, Spain, 6 - 09 September 2016, vol.9886, pp.561
- III. **Recurrent Multiplicative Neuron Model Artificial Neural Network for Non-Linear Time Series Forecasting**
EĞRİOĞLU E., YOLCU U., ALADAĞ Ç. H. , BAŞ E.
2nd World Conference on Business, Economics and Management (BEM), Antalya, Turkey, 25 - 28 April 2013, vol.109, pp.1094-1100
- IV. **A new approximation method based on linear programming for fuzzy division**
Basaran M. A. , ALADAĞ Ç. H. , KADILAR C.
Applied Computing Conference 2008, İstanbul, Turkey, 27 - 30 May 2008, pp.388-389

Supported Projects

ALADAĞ Ç. H. , ALPTEKİN D., Project Supported by Higher Education Institutions, Türkiye'de Ekonomik Büyüme ve Turizm: Hsiao'nun Granger Nedensellik Analizi, 2017 - 2017

ALADAĞ Ç. H. , Alptekin B., Project Supported by Higher Education Institutions, Yapay Sinir Ağı Modelleri ile Hava Kirliliği Öngörüsü, 2017 - 2017

ALADAĞ Ç. H. , GÜNAY S., ALPTEKİN D., Project Supported by Higher Education Institutions, OECD Üyesi Ülkelerde Cinsiyet Gelişmişlik Endeksinin Çok Boyutlu Ölçekleme ile İncelenmesi, 2016 - 2017

Citations

Total Citations (WOS):950

h-index (WOS):18