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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-6759-2020

ScopusID: 16023097100

Yoksis Researcher ID: 183364

Education Information

Undergraduate, Anadolu University, Faculty Of Arts And Sciences, Felsefe, Turkey 2017 - 2020

Doctorate, Lancaster University, Department Of Mathematics And Statistics, United Kingdom 2004 - 2007

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, İstatistik (YI) (Tezli), Turkey 2002 - 2004

Undergraduate Minor, Middle East Technical University, Faculty of Economic and Administrative Sciences, Department of Economics, Turkey 2000 - 2002

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, Turkey 1997 - 2002

Dissertations

Doctorate, Gen ağıları analizlerinde Bayesci metotlar, Lancaster University, Department Of Mathematics And Statistics, 2007

Postgraduate, Zaman serisi analizlerinde birim kök problemleri, Middle East Technical University, Graduate School of Natural and Applied Sciences, İstatistik (YI) (Tezli), 2004

Research Areas

Biomedical Engineering, Statistical Analysis and Applications, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biomedical Engineering, 2019 - Continues

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, 2018 - Continues

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, 2012 - 2018

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, 2010 - 2012

Lecturer PhD, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, 2009 - 2010

Research Assistant PhD, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, 2007 - 2009

Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, 2002 - 2007

Academic and Administrative Experience

Head of Department, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, 2022 - Continues

Internship Coordinator, Middle East Technical University, 2013 - Continues

Erasmus Program Department Coordinator, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, 2022 - 2022

Erasmus Program Institutional Coordinator, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biomedical Engineering, 2019 - 2021

Head of Department, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biomedical Engineering, 2019 - 2021

Chairman or Member of the Commission of Inquiry, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, 2018 - 2018

Courses

Stochastic Processes, Undergraduate, 2022 - 2023

Multivariate Analyses, Undergraduate, 2022 - 2023

Decision Theory and Bayesian Analysis, Postgraduate, 2019 - 2020, 2018 - 2019

New Horizons in Statistics, Undergraduate, 2018 - 2019

Probability 1, Undergraduate, 2019 - 2020

NONPARAMETRIC STATISTICS, Undergraduate, 2017 - 2018

STATISTICAL METHODS, Undergraduate, 2017 - 2018

STATISTICAL METHODS, Undergraduate, 2018 - 2019

STATISTICS FOR BIOINFORMATICS, Postgraduate, 2018 - 2019

Advising Theses

Purutçuoğlu V., Application of statistical methods in the analyses of foster family, Postgraduate, G.ATAR(Student), 2023

Purutçuoğlu V., Collective anomaly detection in time series using pitch frequency and dissimilarity features, Doctorate, E.CAN(Student), 2023

Purutçuoğlu V., Modelling mutual interaction of finance and human factor via various sorts of indices, Doctorate, B.KALAYCI(Student), 2023

Purutçuoğlu V., A non-parametric circular network construction via simulations and a Hidden Markov model for the HIV-1 protease cleavage site detection, Doctorate, E.DOĞAN(Student), 2023

UĞUR Ö., PURUTÇUOĞLU GAZİ V., Extension of leap condition in approximate stochastic simulation algorithms of biological networks, Postgraduate, S.DEMİRBUKEN(Student), 2021

PURUTÇUOĞLU GAZİ V., Graphical models in inference of biological networks, Doctorate, H.Farnoudkia(Student), 2020

Purutçuoğlu Gazi V., Novel model selection criteria on high dimensional biological networks, Postgraduate, G.BAHAR(Student), 2019

Purutçuoğlu Gazi V., INFERENCE OF LARGE-SCALE NETWORKS VIA STATISTICAL APPROACHES, Doctorate, E.AYYILDIZ(Student), 2019

PURUTÇUOĞLU GAZİ V., Analyses and modeling of ovarian cancer microarray data, Postgraduate, B.S(Student), 2019

Purutçuoğlu Gazi V., Model comparison for gynecological cancer datasets and selection of threshold value, Doctorate,

B.BAHÇIVANCI(Student), 2019
PURUTÇUOĞLU GAZİ V., Different types of modellings and the inference of model parameters for complex biological systems, Doctorate, M.AĞRAZ(Student), 2017
PURUTÇUOĞLU GAZİ V., Deterministic modeling and inference of biochemical networks, Postgraduate, D.SEÇİLMİŞ(Student), 2017
PURUTÇUOĞLU GAZİ V., Deterministic modeling and inference of biological systems, Postgraduate, D.Seçilmiş(Student), 2017
PURUTÇUOĞLU GAZİ V., Application of copulas in graphical models for inference of biological systems, Postgraduate, D.DOKUZOĞLU(Student), 2016
Purutçuoğlu Gazi V., Stochastic simulations of biological networks under impulses, Postgraduate, M.ERGÜL(Student), 2016
PURUTÇUOĞLU GAZİ V., Stochastic simulations of biological networks under i-mpulses, Postgraduate, M.ERGÜL(Student), 2016
PURUTÇUOĞLU GAZİ V., Regulatory networks studied by ellipsoidal calculus, Postgraduate, S.YAYLA(Student), 2015
PURUTÇUOĞLU GAZİ V., Comparison of the simulation tools for the deterministic modeling of biochemical networks, Postgraduate, G.TUNCER(Student), 2015
YANIK T., PURUTÇUOĞLU GAZİ V., Effect of maternal high fat diet on hypothalamus vacularite of their offspring /, Postgraduate, H.Taner(Student), 2014
PURUTÇUOĞLU GAZİ V., YANIK T., Effects of maternal high fat diet on hypothalamus vascularite of their offspring, Postgraduate, H.TANER(Student), 2014
PURUTÇUOĞLU GAZİ V., ACAR A. C., Analysis of motifs in microRNA-transcription factor gene regulatory networks, Postgraduate, B.SÜRÜN(Student), 2014
PURUTÇUOĞLU GAZİ V., Detection of the distribution and parameter estimation for the departing connectivity in biological networks, Postgraduate, O.DORCAS(Student), 2014
PURUTÇUOĞLU GAZİ V., Comparative statistical microarray analysis of yeast data under heat shock stress, Postgraduate, D.VAROL(Student), 2014
PURUTÇUOĞLU GAZİ V., Gaussian graphical approaches in estimation of biological systems, Postgraduate, E.AYYILDIZ(Student), 2013
PURUTÇUOĞLU GAZİ V., Gene expression indices for single channel microarrays, Postgraduate, T.AKAL(Student), 2013

Jury Memberships

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Gebze Teknik Üniversitesi, August, 2023
Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Uşak Üniversitesi, March, 2023
Award, Ankara Üniversitesi Fen Bilimleri Ödülü, Ankara Üniversitesi, February, 2022
Doctoral Examination, Doctoral Examination, Gazi University, December, 2021
Associate Professor Exam, Associate Professor Exam, Middle East Technical University, November, 2021
Associate Professor Exam, Associate Professor Exam, Middle East Technical University, May, 2021
Associate Professor Exam, Associate Professor Exam, Middle East Technical University, May, 2021
Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, March, 2021
Committee Of Expert, Committee Of Expert, Middle East Technical University, January, 2021
Associate Professor Exam, Associate Professor Exam, Middle East Technical University, April, 2020
Associate Professor Exam, Associate Professor Exam, Middle East Technical University, April, 2020
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Gazi Üniversitesi, December, 2019
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Gazi Üniversitesi, January, 2019
Doctoral Examination, Doctoral Examination, Orta Doğu Teknik Üniversitesi, December, 2018
Doctoral Examination, Doctoral Examination, Orta Doğu Teknik Üniversitesi, November, 2018
Award, Mustafa Parlar Vakfı ODTÜ Tez Ödülleri, Orta Doğu Teknik Üniversitesi, September, 2018

Doctoral Examination, Doctoral Examination, Ankara Üniversitesi, July, 2018

Doctoral Examination, Doctoral Examination, Orta Doğu Teknik Üniversitesi, July, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Optimal model description of finance and human factor indices**
Kalaycı B., Purutçuoğlu V., Weber G. W.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.7, pp.1-26, 2023 (SCI-Expanded)
- II. **A new collective anomaly detection approach using pitch frequency and dissimilarity: Pitchy anomaly detection (PAD)**
Erkuş E. C., PURUTÇUOĞLU V.
Journal of Computational Science, vol.72, 2023 (SCI-Expanded)
- III. **Outlier detection and quasi-periodicity optimization algorithm: Frequency domain based outlier detection (FOD)**
Erkuş E. C., Purutcuoglu V.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.291, no.2, pp.560-574, 2021 (SCI-Expanded)
- IV. **Vine copula graphical models in the construction of biological networks**
Farnoudkia H., PURUTÇUOĞLU GAZİ V.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.50, no.4, pp.1172-1184, 2021 (SCI-Expanded)
- V. **Novel model selection criteria for LMARS: MARS designed for biological networks**
Bulbul G. B., PURUTÇUOĞLU GAZİ V.
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.91, no.9, pp.1749-1761, 2021 (SCI-Expanded)
- VI. **Long-tailed graphical model and frequentist inference of the model parameters for biological networks**
AĞRAZ M., PURUTÇUOĞLU GAZİ V.
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.90, no.9, pp.1591-1605, 2020 (SCI-Expanded)
- VII. **Novel model selection criteria on sparse biological networks**
Bulbul G. B., Purutcuoglu V., Purutcuoglu E.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.16, no.9, pp.5359-5364, 2019 (SCI-Expanded)
- VIII. **Detection of abnormalities in heart rate using multiple Fourier transforms**
Erkuş E. C., Purutcuoglu V., Purutcuoglu E.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.16, pp.5237-5242, 2019 (SCI-Expanded)
- IX. **Copula Gaussian graphical modeling of biological networks and Bayesian inference of model parameters**
Farnoudkia H., Purutcuoglu V.
SCIENTIA IRANICA, vol.26, no.4, pp.2495-2505, 2019 (SCI-Expanded)
- X. **Extended lasso-type MARS (LMARS) model in the description of biological network**
Agraz M., PURUTÇUOĞLU GAZİ V.
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.89, no.1, pp.1-14, 2019 (SCI-Expanded)
- XI. **Loop-based conic multivariate adaptive regression splines is a novel method for advanced construction of complex biological networks**
Ayyıldız Demirci E., Purutçuoğlu Gazi V., Weber G. W.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.270, pp.852-861, 2018 (SCI-Expanded)
- XII. **Modeling of various biological networks via LCMARS**
AYYILDIZ DEMİRCİ E., PURUTÇUOĞLU GAZİ V.
JOURNAL OF COMPUTATIONAL SCIENCE, vol.28, pp.148-154, 2018 (SCI-Expanded)
- XIII. **Impulsive Expressions in Stochastic Simulation Algorithms**
Altıntan D., Purutcuoglu V., Uğur Ö.

INTERNATIONAL JOURNAL OF COMPUTATIONAL METHODS, vol.15, no.1, 2018 (SCI-Expanded)

- XIV. **Transcriptomic analysis of the heat stress response for a commercial baker's yeast *Saccharomyces cerevisiae***
VAROL D., PURUTÇUOĞLU GAZİ V., YILMAZ R.
GENES & GENOMICS, vol.40, no.2, pp.137-150, 2018 (SCI-Expanded)
- XV. **Gibbs Sampling in Inference of Copula Gaussian Graphical Model Adapted to Biological Networks**
PURUTÇUOĞLU GAZİ V., Farnoudkia H.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.1112-1117, 2017 (SCI-Expanded)
- XVI. **Comprehensive Analyses of Gaussian Graphical Model under Different Biological Networks**
Dokuzoglu D., PURUTÇUOĞLU GAZİ V.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.1106-1111, 2017 (SCI-Expanded)
- XVII. **Comparison of two inference approaches in Gaussian graphical models**
PURUTÇUOĞLU GAZİ V., AYYILDIZ DEMİRCİ E., Wit E.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.42, no.2, pp.203-211, 2017 (SCI-Expanded)
- XVIII. **Robust background normalization method for one-channel microarrays**
AKAL T., PURUTÇUOĞLU GAZİ V., Weber G.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.42, no.2, pp.111-121, 2017 (SCI-Expanded)
- XIX. **Bernstein approximations in glasso-based estimation of biological networks**
PURUTÇUOĞLU GAZİ V., Agraz M., Wit E.
CANADIAN JOURNAL OF STATISTICS-REVUE CANADIENNE DE STATISTIQUE, vol.45, no.1, pp.62-76, 2017 (SCI-Expanded)
- XX. **MARS as an alternative approach of Gaussian graphical model for biochemical networks**
AYYILDIZ DEMİRCİ E., Agraz M., PURUTÇUOĞLU GAZİ V.
JOURNAL OF APPLIED STATISTICS, vol.44, no.16, pp.2858-2876, 2017 (SCI-Expanded)
- XXI. **Clustering current climate regions of Turkey by using a multivariate statistical method**
İyigün C., Turkes M., Batmaz İ., Yozgatlıgil C., Purutcuoglu V., Koc E. K., Ozturk M. Z.
THEORETICAL AND APPLIED CLIMATOLOGY, vol.114, pp.95-106, 2013 (SCI-Expanded)
- XXII. **Inference of the stochastic MAPK pathway by modified diffusion bridge method**
PURUTÇUOĞLU GAZİ V.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.21, no.2, pp.415-429, 2013 (SCI-Expanded)
- XXIII. **Robust Gene Expression Index**
PURUTÇUOĞLU GAZİ V.
MATHEMATICAL PROBLEMS IN ENGINEERING, 2012 (SCI-Expanded)
- XXIV. **Estimating Network Kinetics of the MAPK/ERK Pathway Using Biochemical Data**
Purutcuoğlu Gazi V., Wit E.
MATHEMATICAL PROBLEMS IN ENGINEERING, 2012 (SCI-Expanded)
- XXV. **Bayesian inference for the MAPK/ERK pathway by considering the dependency of the kinetic parameters**
PURUTÇUOĞLU GAZİ V., Wit E.
BAYESIAN ANALYSIS, vol.3, no.4, pp.851-886, 2008 (SCI-Expanded)
- XXVI. **FGX: a frequentist gene expression index for Affymetrix arrays**
Purutcuoglu V., Wit E.
BIostatistics, vol.8, no.2, pp.433-437, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Extension of Leap Condition in Approximate Stochastic Simulation Algorithms of Biological Networks**
Demirbüken S., Purutcuoğlu Gazi V.
Turkish Journal of Mathematics and Computer Science, vol.15, no.1, pp.1-11, 2022 (Peer-Reviewed Journal)
- II. **Application of r-vine copula method in Istanbul stock market data: A case study for the construction**

sector

Farnoudkia H., Purutçuoğlu Gazi V.

Journal of Turkish Operations Management, vol.4, no.2, pp.509-518, 2020 (Peer-Reviewed Journal)

- III. **Estimation of gynecological cancer networks via target proteins**
Bahçivancı B., Purutçuoğlu Gazi V., Purutçuoğlu E., Ürün Y.
Journal of Multidisciplinary Engineering Science and Technology, vol.5, no.12, pp.9296-9302, 2018 (Peer-Reviewed Journal)
- IV. **Is it necessary to apply the outlier detection for protein-protein interaction data?**
Ayyıldız E., Purutçuoğlu Gazi V.
Journal of Biostatistics-Turkish Clinics, vol.10, no.3, pp.173-186, 2018 (Peer-Reviewed Journal)
- V. **Exact stochastic simulation algorithms and impulses in biological systems**
Altıntan D., Purutçuoğlu Gazi V.
International Journal of Computational and Experimental Science and Engineering, vol.4, no.2, pp.41-47, 2018 (Peer-Reviewed Journal)
- VI. **Gen Ağlarının Matematiksel Modellenmesi**
PURUTÇUOĞLU GAZİ V., AYYILDIZ DEMİRCİ E.
Türkiye Klinikleri Biyoistatistik Dergisi, vol.9, no.2, pp.143-155, 2017 (Peer-Reviewed Journal)
- VII. **Application of impulsive deterministic simulation of biochemical networks via simulation tools**
Purutçuoğlu Gazi V.
Proceedings of the Jangjeon Mathematical Society, vol.20, no.1, pp.105-119, 2017 (Scopus)
- VIII. **Gen ağlarının matematiksel modellemesi**
Purutçuoğlu Gazi V.
Biyoistatistik Dergisi-Türkiye Klinikleri, vol.9, no.2, pp.143-155, 2017 (Peer-Reviewed Journal)
- IX. **Different types of Bernstein operators in inference of Gaussian graphical model**
Agraz M., PURUTÇUOĞLU GAZİ V.
COGENT MATHEMATICS, vol.3, 2016 (ESCI)
- X. **Comparative assessment of simulation tools for bio- chemical networks**
Purutçuoğlu Gazi V.
American Review of Mathematics and Statistics, vol.3, no.2, pp.69-82, 2015 (Peer-Reviewed Journal)
- XI. **A short note on resolving singularity problems in covariance matrices**
Purutçuoğlu Gazi V., Ayyıldız E., Wit E.
International Journal of Statistics and Probability, vol.1, no.2, pp.113-118, 2012 (Peer-Reviewed Journal)
- XII. **Türkiye İklim Bölgelerinin Hiyerarşik Kümeleme Yöntemi ile Belirlenmesi**
Kartal E., İyigün C., Fahmi M. F., Yozgatlıgil C., Purutçuoğlu Gazi V., Batmaz İ., Köksal G., Turkes M.
İSTATİSTİK ARAŞTIRMA DERGİSİ, vol.8, pp.13-25, 2011 (Peer-Reviewed Journal)
- XIII. **Stukel's extended logistic regression analysis with R**
Purutçuoğlu Gazi V.
Journal of Biostatistics-Turkish Clinics, vol.3, no.1, pp.49-56, 2011 (Peer-Reviewed Journal)
- XIV. **Review of the six-sigma methodology and its case studies**
Purutçuoğlu Gazi V.
Selçuk Journal of Applied Mathematics, vol.12, no.1, pp.95-108, 2011 (Peer-Reviewed Journal)
- XV. **Biyokimyasal reaksiyonlar için stokastik simülasyon algoritmalarına genel bir bakış**
Purutçuoğlu Gazi V.
İstatistik Araştırma Dergisi, vol.7, no.1, pp.70-82, 2010 (Peer-Reviewed Journal)
- XVI. **Bayesian inference of the complex MAPK pathway under structural dependency**
Purutçuoğlu Gazi V.
Journal of Statistical Research, vol.6, no.1, pp.1-17, 2008 (Peer-Reviewed Journal)
- XVII. **Exact and Approximate Stochastic Simulations of the MAPK Pathway and Comparisons of Simulations' Results**
Purutçuoğlu Gazi V.
Journal of Integrative Bioinformatics, vol.38, no.3, pp.1-13, 2006 (ESCI)

Books & Book Chapters

- I. **İnsan-Makine Uygulamalarında Kullanılacak Fizyolojik İnsan Verileri için Temel Alt-Yapısal Yazılım ve Donanım Süreçleri Geliştirme**
Purutçuoğlu V. (Editor), Weber G. W. (Editor), Farnoudkia H. (Editor)
CRC, New York, New York, 2022
- II. **Evaluation of Data Compression Methods for Efficient Transport and Classification of Facial EMG Signals**
Arı F., Akan E., Aktaş Dinçer H., Erkuş E. C., Farzin Asanjan M., Gökçay D., İleri F., Purutçuoğlu V., Somuncuoğlu A. N.
in: Operations Research New Paradigms and Emerging Applications, Vilda Purutçuoğlu, Gerhard-Wilhelm Weber, Hajar Farnoudkia, Editor, CRC, New York, New York, pp.239-258, 2022
- III. **Two new non-parametric models for biological networks**
Seçilmiş D., Ağraz M., Purutçuoğlu Gazi V.
in: Bayesian Reasoning and Gaussian Processes for Machine Learning Applications, Hemachandran K, Shubham Tayal, Preetha Mary George, Parveen Singla, Utku Kose, Editor, CRC, New York, New York, pp.77-100, 2022
- IV. **Operation Research in Neuroscience: A Recent Perspective of Operation Research Application in Finance**
Kalaycı B., Purutçuoğlu V., Wilhelm Weber G.
in: Operations Research: New Paradigms and Emerging Applications, Purutçuoğlu, V., Weber, G.W. and Farnoudkia, H., Editor, CRC, New York, New York, pp.170-190, 2022
- V. **Bayesian Inference for Undirected Network Models**
Farnoudkia H., Purutçuoğlu V.
in: Operations Research: New Paradigms and Emerging Applications, Purutçuoğlu, V., Weber, G.W. and Farnoudkia, H., Editor, CRC, New York, New York, pp.218-238, 2022
- VI. **Generating various types of graphical models via MARS**
Ayyıldız Demirci E., Purutçuoğlu V.
in: Bayesian Reasoning and Gaussian Processes for Machine Learning Applications, K. Hemachandran, S. Tayal, P. M. George, P. Singla, U. Kose., Editor, CRC, New York, New York, pp.101-110, 2022
- VII. **Vine copula and artificial neural network models to analyze breast cancer data**
Farnoudkia H., Purutçuoğlu Gazi V.
in: Artificial Intelligence for Data-Driven Medical Diagnosis, Deepak Gupta, Utku Kose, Bao Le Nguyen and Siddhartha Bhattacharyya, Editor, Walter de Gruyter, Inc., Berlin, pp.287-304, 2021
- VIII. **Construction of a new model to investigate breast cancer data**
Ağyüz U., PURUTÇUOĞLU V., PURUTÇUOĞLU E., ÜRÜN Y.
in: Modeling, Dynamics, Optimization and Bioeconomics IV, A. Pinto and D. Zilberman, Editor, Springer, pp.11-29, 2021
- IX. **Construction of a new model to investigate breast cancer data**
Ağyüz U., Purutçuoğlu V., Purutçuoğlu E., Ürün Y.
in: Modeling, Dynamics, Optimization and Bioeconomics IV, A. Pinto, D. Zilberman, Editor, Springer Nature, Chur, pp.11-29, 2021
- X. **Vine copula and artificial neural network models to analysis breast cancer data**
PURUTÇUOĞLU V., Farnoudkia H.
in: Artificial Intelligence for Data-Driven Medical Diagnosis, D. Gupta, U. Kose, B. L. Nguyen, S. Bhattacharyya, Editor, De Gruyter, pp.287-303, 2021
- XI. **Detection of HIV-1 protease cleavages sites via hidden Markov model and physicochemical properties of aminoacids**
Doğan Dar E., PURUTÇUOĞLU GAZİ V.
in: Numerical Solutions of Real-Life Nonlinear Phenomena., J. A. T. Machado, N. Ozdemir, D. Baleanu, Editor, Springer, Cham, pp.226-233, 2020
- XII. **Detection of HIV-1 protease cleavages sites via hidden Markov model and physicochemical properties of aminoacids**

Doğan Dar E., Purutçuoğlu Gazi V., Purutçuoğlu E.

in: Numerical Solutions of Realistic Nonlinear Phenomena, J. A. T. Machado, N. Ozdemir, D. Baleanu, Editor, Springer, London/Berlin , Ankara, pp.171-193, 2020

XIII. Empirical copula in the detection of batch effects

Ağraz M., Purutçuoğlu Gazi V.

in: Mathematical Methods in Engineering, K. Tas D. Baleanu and J.A. Mashado, Editor, Springer, London/Berlin , Ankara, pp.25-39, 2019

XIV. Modeling of biochemical networks via classification and regression tree methods

Seçilmiş D., Purutçuoğlu Gazi V.

in: Mathematical Methods in Engineering, K. Taş, D. Baleanu and J.A. Mashado, Editor, Springer, London/Berlin , Chur, pp.87-102, 2019

XV. Modeling of biochemical networks via classification and regression tree methods

Seçilmiş D., Purutçuoğlu Gazi V.

in: Mathematical Methods in Engineering, K. Tas D. Baleanu and J.A. Mashado, Editor, Springer, London/Berlin , Ankara, pp.87-102, 2018

XVI. Major simulation tools for biochemical networks

Tuncer G., Purutçuoğlu Gazi V.

in: Modelling, Dynamics, Optimization and Bioeconomics III, A. Pinto, Z. Zilberman, Editor, Springer, London/Berlin , Berlin, pp.443-467, 2018

XVII. Stochastic modelling of biochemical networks and inference of model parameters

Purutçuoğlu Gazi V.

in: Modelling, Dynamics, Optimization and Bioeconomics III, A. Pinto, Z. Zilberman, Editor, Springer, London/Berlin , Berlin, pp.369-385, 2018

XVIII. Major simulation tools for biochemical networks

Tuncer G., PURUTÇUOĞLU GAZI V.

in: Modelling, Dynamics, Optimization and Bioeconomics III, A. Pinto, Z. Zilberman, Editor, Springer, pp.443-467, 2018

XIX. Stochastic modelling of biochemical networks and inference of model parameters

PURUTÇUOĞLU GAZI V.

in: Modelling, Dynamics, Optimization and Bioeconomics III, A. Pinto, Z. Zilberman, Editor, Springer, pp.369-385, 2018

XX. Transformations of data in deterministic modelling of biological networks

Ağraz M., Purutçuoğlu Gazi V.

in: Intelligent Mathematics II: Applied Mathematics and Approximation Theory, O. Duman, Editor, Springer, London/Berlin , Berlin, pp.343-356, 2016

XXI. Biyoinformatik Alanında İstatistik

Purutçuoğlu Gazi V.

Nobel Yayın Dağıtım, Ankara, 2014

XXII. Advanced mathematical and statistical tools in the dynamic modelling and simulation of gene-environment networks

Defterli Ö., Purutçuoğlu Gazi V., Weber G. W.

in: Modeling, Optimization, Dynamics and Bioeconomy, D. Zilberman and A. Pinto, Editor, Springer, London/Berlin , Berlin, pp.235-257, 2014

XXIII. Biyolojik ağlar, evrim, hastalık ve gen fonksiyonlarını ortaya çıkarmaktadır

Purutçuoğlu Gazi V.

in: Biyologlar İçin Biyoinformatik, Z. Kaya, Editor, Nobel Yayın Dağıtım, Ankara, pp.291-314, 2014

XXIV. Determining the Climate Zones of Turkey by Center-Based Clustering Methods

Fahmi F., Kartal E., Iyigün C., Turkes M., Batmaz I., Yozgatligil C., Purutçuoğlu Gazi V., Köksal G.

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XXV. Survey of background normalizations for Affymetrix arrays and a case study

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- IV. **Memory Type Control Charts based on Bayesian Theory: Development and Evaluation**
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- V. **A New Class of Weibull Generated Distribution**
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- VIII. **MODELING OF SUPPLY AND DEMAND FOR MAIZE IN KILIFI DISTRICT KENYA A COBWEB MODEL APPROACH**
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2015
- IX. **An application of size bias method**
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- X. **Chemical composition and antimicrobial activity of essential oils of Cyperus fuscus L s tubers collected from Ankara**
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- XI. **Exon Prediction in Eukaryotic Genes using an Efficient Algorithm**
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- XII. **Estimating performance of rail transport by bootstrap data envelopment analysis**
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Purutçuoğlu V., Project Supported by Other Private Institutions, Zaman serisi verilerinde aykırı gözlem, yapısal değişim tespiti ve modelleme, 2023 - 2024

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Purutçuoğlu Gazi V., TÜBİTAK - AB COST Project, European network for statistical network science, 2016 - 2020

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PURUTÇUOĞLU V., AĞRAZ M., Project Supported by Higher Education Institutions, Gaussian grafiksel modelinin ve lasso regresyonuna dayalı grafiksel modelinin uyarlanmış en çok olabilirlik metoduyla model parametre tahmini, 2017 - 2019

Purutçuoğlu Gazi V., TUBITAK Project, Biyolojik ağların Gaussian grafiksel modellerle tahmininde kopuların uygulanması ve parametre tahmini, 2015 - 2017

Şeker T., Purutçuoğlu Gazi V., TUBITAK Project, Biyolojik Ağların Gaussian Grafiksel Modellerle Tahmininde Kopuların Uygulanması Ve Parametre Tahmini, 2015 - 2017

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Şeker T., Purutçuoğlu Gazi V., TUBITAK Project, Tanecik Filtreleme Yöntemiyle Biyokimyasal Sistemler İçin Model Parametrelerinin Tahmini TBAG 112T772, 2013 - 2015

Purutçuoğlu Gazi V., EU Framework Program Project, PATHOSYS - New Algorithms for Host Pathogen Systems Biology, 2010 - 2015

PURUTÇUOĞLU GAZİ V., TUBITAK Project, Meme kanserinin histolojik ve patolojik alt tiplerinin meta analiz yöntemine dayalı miRNA imzaları ile sınıflandırılması, 2012 - 2013

PURUTÇUOĞLU GAZİ V., TUBITAK Project, Veri Madenciliği Yöntemleri ile Türkiye İklim Bölgelerinin Yeniden Belirlenmesi ve Yağış Tahmin Modellerinin Geliştirilmesi, 2009 - 2011

Batmaz İ., Yozgatlıgil C., İyigün C., Purutçuoğlu Gazi V., Köksal G., Project Supported by Higher Education Institutions, Veri Madenciliği Yöntemleri ile Türkiye İklim Bölgelerinin Yeniden Belirlenmesi, 2010 - 2010

Other International Funding Programs, Stochastic modelling and statistical inference of gene regulatory pathways integrating multiple sources of data, 2005 - 2006

Activities in Scientific Journals

International Journal of Industrial Engineering and Operational Research, Committee Member, 2018 - Continues

Data Science and Applications, Advisory Committee Member, 2018 - Continues

Journal of Biostatistics - Turkish Clinics, Advisory Committee Member, 2010 - Continues

Türkiye Klinikleri Biyoistatistik Dergisi, Committee Member, 2023 - 2023

BMC BIOINFORMATICS, Committee Member, 2023 - 2023

BIOMETRICS, Assistant Editor/Section Editor, 2023 - 2023

BMC BIOINFORMATICS, Committee Member, 2022 - 2022

BIOMETRICS, Assistant Editor/Section Editor, 2022 - 2022

BIOMETRICS, Assistant Editor/Section Editor, 2021 - 2021

BIOMETRICS, Assistant Editor/Section Editor, 2021 - 2021

BIOMETRICS, Assistant Editor/Section Editor, 2021 - 2021

BIOMETRICS, Assistant Editor/Section Editor, 2021 - 2021

Memberships / Tasks in Scientific Organizations

Award Fund Committee of International Biometrics Society, Principal Member, 2023 - 2023, United States Of America

International Biometrics Society-Award Fund Committee, Chairman of the Board, 2022 - 2022, United States Of America

Eastern Mediterranean Region of the International Biometric Society, Country Representative, 2021 - 2022, United States Of America

International Biometrics Society, Executive Board Member, 2020 - 2022, United States Of America

International Biometrics Society, Country Representative, 2020 - 2021, United States Of America

International Biometric Society, Awards Fund Committee Member, Member of Science Committee, 2016 - 2019

Scientific Refereeing

JOURNAL OF DYNAMICS AND GAMES, Journal Indexed in ESCI, December 2023

BMC WOMEN'S HEALTH, Journal Indexed in SCI-E, December 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2023

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TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, February 2023

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SCIENTIFIC REPORTS, SCI Journal, December 2021
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BMC BIOINFORMATICS, SCI Journal, November 2021
BMC GENOMICS, SCI Journal, November 2021
BIOMETRICS, SCI Journal, November 2021
JOURNAL OF APPLIED STATISTICS, SCI Journal, October 2021
TURKISH JOURNAL OF MATHEMATICS, SCI Journal, October 2021
TURKISH JOURNAL OF MATHEMATICS, SCI Journal, October 2021
JOURNAL OF DYNAMICS AND GAMES, Journal Indexed in ESCI, October 2021
AN INTERNATIONAL JOURNAL OF OPTIMIZATION AND CONTROL: THEORIES & APPLICATIONS (IJOCTA), Journal Indexed in ESCI, September 2021
BIOMETRICS, SCI Journal, August 2021
JOURNAL OF APPLIED STATISTICS, SCI Journal, August 2021

BMC BIOINFORMATICS, SCI Journal, August 2021

Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey, August 2021

BIOMETRICS, SCI Journal, July 2021

Project Supported by Higher Education Institutions, BAP Research Project, Yildiz Technical University, Turkey, July 2021

OPEN CHEMISTRY, SCI Journal, June 2021

BIOMETRICS, SCI Journal, June 2021

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Türkiye Sağlık Enstitüleri Başkanlığı, Turkey, June 2021

COMMUNICATIONS IN STATISTICS -THEORY AND METHODS, SCI Journal, May 2021

AN INTERNATIONAL JOURNAL OF OPTIMIZATION AND CONTROL: THEORIES & APPLICATIONS (IJOCTA), Journal Indexed in ESCI, May 2021

JOURNAL OF DYNAMICS AND GAMES, Journal Indexed in ESCI, May 2021

BIOMETRICS, SCI Journal, April 2021

Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, March 2021

JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, SCI Journal, February 2021

Türkiye Klinikleri Biyoistatistik Dergisi, National Scientific Refreed Journal, December 2020

JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, SCI Journal, December 2020

Foundations of Computing and Decision Sciences, Other Indexed Journal, November 2020

COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, SCI Journal, November 2020

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, SCI Journal, November 2020

BIOMETRICS, SCI Journal, November 2020

Communications Faculty of Sciences University of Ankara Series A1-Mathematics and Statistics , Journal Indexed in ESCI, November 2020

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Health Institutes of Turkey, Turkey, November 2020

Türkiye Klinikleri Biyoistatistik Dergisi, National Scientific Refreed Journal, September 2020

ANNALS OF OPERATIONS RESEARCH, SCI Journal, August 2020

Türkiye Klinikleri Biyoistatistik Dergisi, National Scientific Refreed Journal, August 2020

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, SCI Journal, July 2020

Türkiye Klinikleri Biyoistatistik Dergisi, National Scientific Refreed Journal, June 2020

KAHRAMANMARAŞ SÜTÇÜ İMAM ÜNİVERSİTESİ TARIM VE DOĞA DERGİSİ, Other Journals, May 2020

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, SCI Journal, May 2020

EXPERT SYSTEMS WITH APPLICATIONS, SCI Journal, May 2020

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, SCI Journal, April 2020

COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, SCI Journal, March 2020

ANNALS OF OPERATIONS RESEARCH, SCI Journal, March 2020

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, SCI Journal, March 2020

JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES C-APPLIED STATISTICS, SCI Journal, February 2020

TUBITAK Project, 1002 - Quick Support Program, The Scientific and Research Council of Turkey, Turkey, February 2020

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, SCI Journal, January 2020

Türkiye Klinikleri Biyoistatistik Dergisi, National Scientific Refreed Journal, January 2020

JOURNAL OF APPLIED STATISTICS, SCI Journal, January 2020

ANNALS OF OPERATIONS RESEARCH, SCI Journal, January 2020

OPEN CHEMISTRY, SCI Journal, December 2019

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Middle East Technical University, Turkey, December 2019

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Middle East Technical University, Turkey, December 2019

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Middle East Technical University, Turkey, December 2019

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Middle East Technical University, Turkey, December 2019

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Middle East Technical University, Turkey, December 2019

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Middle East Technical University, Turkey, December 2019

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Middle East Technical University, Turkey, December 2019

TUBITAK Project, 2223 - Domestic Scientific Activities Support Program, Middle East Technical University, Turkey, December 2019

Türkiye Klinikleri Biyoistatistik Dergisi, National Scientific Refreed Journal, November 2019

Journal of Modern Applied Statistical Methods, Other Indexed Journal, November 2019

BMC BIOINFORMATICS, SCI Journal, September 2019

Türkiye Klinikleri Biyoistatistik Dergisi, National Scientific Refreed Journal, September 2019

Communications Faculty of Sciences University of Ankara Series A1 Mathematics and Statistics, Other Indexed Journal, July 2019

BMC BIOINFORMATICS, SCI Journal, July 2019

Communications Faculty of Sciences University of Ankara Series A1 Mathematics and Statistics, Other Indexed Journal, June 2019

OPEN CHEMISTRY, SCI Journal, June 2019

CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, SCI Journal, June 2019

Communications Faculty of Sciences University of Ankara Series A1 Mathematics and Statistics, Other Indexed Journal, June 2019

OPEN CHEMISTRY, SCI Journal, May 2019

OPEN CHEMISTRY, SCI Journal, May 2019

BMC BIOINFORMATICS, SCI Journal, May 2019

CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, National Scientific Refreed Journal, May 2019

Transactions on Fuzzy Systems, Other Indexed Journal, May 2019

Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey, April 2019

International Journal of Statistics and Probability, Other Indexed Journal, March 2019

JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES C-APPLIED STATISTICS, SCI Journal, March 2019

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, Journal Indexed in SCI-E, March 2019

International Journal of Machine Learning and Cybernetics, Other Indexed Journal, March 2019

Türkiye Klinikleri Biyoistatistik Dergisi, National Scientific Refreed Journal, February 2019

CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, SCI Journal, February 2019

Journal of Biostatistics-Turkish Clinics, Other Indexed Journal, February 2019

CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, National Scientific Refreed Journal, January 2019

Fundamental Journal of Mathematics and Applications, Other Indexed Journal, January 2019

Fundamental Journal of Mathematics and Applications, Other Indexed Journal, December 2018

OPEN CHEMISTRY, SCI Journal, December 2018

Project Supported by Other Official Institutions, Orta Doğu Teknik Üniversitesi, Turkey, December 2018

International Journal of Statistics and Probability, Other Indexed Journal, November 2018

Fundamental Journal of Mathematics and Applications, Other Indexed Journal, November 2018

TUBITAK Project, 1002 - Quick Support Program, Orta Doğu Teknik Üniversitesi, Turkey, November 2018

Türkiye Klinikleri Biyoistatistik Dergisi, National Scientific Refreed Journal, October 2018

International Journal of Statistics and Probability, Other Indexed Journal, October 2018

Cogent Mathematics and Statistics, Other Indexed Journal, August 2018

The International Symposium on Health Informatics and Bioinformatics , Conference Paper (Full Text), August 2018

The International Symposium on Health Informatics and Bioinformatics, Conference Paper (Full Text), August 2018

The International Symposium on Health Informatics and Bioinformatics, Conference Paper (Full Text), August 2018

The International Symposium on Health Informatics and Bioinformatics, Conference Paper (Full Text), August 2018
The International Symposium on Health Informatics and Bioinformatics, Conference Paper (Full Text), August 2018
The 4th International Conference on Fuzzy Systems and Data Mining, Conference Paper (Full Text), July 2018
Characterization of coding and noncoding RNA interactions through topological descriptors, Conference Paper (Full Text), July 2018
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Orta Doğu Teknik Üniversitesi, Turkey, July 2018
TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, Orta Doğu Teknik Üniversitesi, Turkey, July 2018
TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, Orta Doğu Teknik Üniversitesi, Turkey, July 2018
Journal of Scientific Research and Reports, Other Indexed Journal, June 2018
International Journal of Statistics and Probability, Other Indexed Journal, June 2018
Project Supported by Other Official Institutions, Orta Doğu Teknik Üniversitesi, Turkey, June 2018
journal of Biostatistics-Turkish Clinics, Other Indexed Journal, May 2018
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, SCI Journal, April 2018
Cogent Mathematics and Statistics, Other Indexed Journal, April 2018
International Journal of Statistics and Probability, Other Indexed Journal, March 2018
TUBITAK Project, 1002 - Quick Support Program, Orta Doğu Teknik Üniversitesi, Turkey, March 2018
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, Journal Indexed in SCI-E, February 2018
International Journal of Statistics and Probability, Other Indexed Journal, February 2018
OPEN CHEMISTRY, SCI Journal, February 2018
PeerJ, Other Indexed Journal, February 2018
Journal of Biostatistics-Turkish Clinics, Other Indexed Journal, January 2018
Archives of Current Research International, Other Indexed Journal, January 2018
Journal Of Biostatistics-Turkish Clinics, Other Indexed Journal, January 2018

Scientific Consultations

Huawei R&G Center, Other, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Statistics, Turkey, 2023 - 2024
Monitor Medikal Araştırma ve Danışmanlık Şirketi, Scientific Consultancy, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, Turkey, 2022 - 2022

Tasks In Event Organizations

Purutçuoğlu Gazi V., 15th International Conference on Computational Intelligence methods for Bioinformatics and Biostatistics , Scientific Congress, Portugal, Eylül 2018

Metrics

Publication: 240
Citation (WoS): 179
Citation (Scopus): 192
H-Index (WoS): 6
H-Index (Scopus): 6

Congress and Symposium Activities

XII Symposium of Polish Bioinformatics Society , Invited Speaker, Krakow, Poland, 2019

COSTNET Meeting, Working Group, Warszawa, Poland, 2018

Non Academic Experience

International Biometric Society (IBS)

METU

International Biometric Society (IBS)

International Biometric Society (IBS)

International Biometric Society (IBS)

International Biometric Society (IBS)

Groningen University

University of Groningen

METU

Lancaster University

METU

Glasgow University

METU