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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

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, 2024 (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. **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)
- V. **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)
- 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. **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)
- XIV. **Impulsive Expressions in Stochastic Simulation Algorithms**
Altıntan D., Purutcuoglu V., UĞUR Ö.

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

- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- 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**
Purutçuoğlu 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., Purutçuoğlu 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 Jangeon 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.
in: Nonlinear and Complex Dynamics: Applications in Physical Biological and Financial Systems, J.A. Tenreiro Machado,Baleanu,D. and A. Luo, Editor, Springer, London/Berlin , London, pp.171-178, 2011
- XXV. **Survey of background normalizations for Affymetrix arrays and a case study**
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in: Advances in Intelligent Modelling and Simulation: Simulation Tools and Applications, A. Byrski,Z. Oplatkova,M.

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- I. **FUNCTION BASED ADAPTIVE EXPONENTIALLY WEIGHTED MOVING AVERAGE CONTROL CHARTS**
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- IX. **An application of size bias method**
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- X. **Exon Prediction in Eukaryotic Genes using an Eficient Algorithm**
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PURUTÇUOĞLU V., Project Supported by Higher Education Institutions, Dairesel Veriler İçin Ağ Modellemesinde Parametre Tahmini Ve Model Seçimi, 2023 - Continues

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

PURUTÇUOĞLU GAZİ V., TÜBİTAK 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
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

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

BIOMEDICAL SIGNAL PROCESSING AND CONTROL, SCI Journal, December 2022
JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, SCI Journal, December 2022
TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Middle East Technical University, Turkey, December 2022
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TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, March 2022

BMC GENOMICS, SCI Journal, February 2022

TUBITAK Project, 2236 - Program for Supporting International Researchers, Middle East Technical University, Turkey, February 2022

SCIENTIFIC REPORTS, SCI Journal, December 2021

BIOMETRICS, SCI Journal, December 2021

TUBITAK Project, 1002 - Quick Support Program, THE SCIENTIFIC AND TECHNOLOGICAL RESEARCH COUNCIL OF TÜRKİYE, Turkey, December 2021

BMC BIOINFORMATICS, SCI Journal, November 2021

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JOURNAL OF APPLIED STATISTICS, SCI Journal, October 2021

TURKISH JOURNAL OF MATHEMATICS, SCI Journal, October 2021

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

BIOMETRICS, SCI Journal, August 2021

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

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

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

BIOMETRICS, SCI Journal, November 2020

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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
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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

Monitor Medikal Arařtırma ve Danıřmanlık Őirketi, Scientific Consultancy, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, Turkey, 2022 - 2022

Tasks In Event Organizations

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

Metrics

Publication: 225

Citation (WoS): 160

Citation (Scopus): 177

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