

Asst. Prof. MEHMET TAHİR HUYUT

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Van Yüzüncü Yıl University, Sağlık Bilimleri Enstitüsü, Biyoistatistik (Tıp) (Dr), Turkey 2015 - 2019

Postgraduate, Van Yüzüncü Yıl University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Turkey 2011 - 2014

Undergraduate, Van Yüzüncü Yıl University, Eğitim Fakültesi, Orta Öğretim Fen Ve Matematik Alanları Eğitimi Bölümü, Turkey 2005 - 2010

Foreign Languages

English, B1 Intermediate

Certificates, Courses and Trainings

Data Analysis, RevMan ve R ile Uygulamalı Meta Analizi , 23. Ulusal ve 6. Uluslararası Biyoistatistik Kongresi, 2022

Data Analysis, R ve SPSS uygulamaları ile Propensity Skor Eşleştirme Analizi, 23. Ulusal ve 6. Uluslararası Biyoistatistik KongresiR, 2022

IT, Python ile Makina Öğrenmesi, Bilgi Teknolojileri ve İletişim Kurumu, 2020

IT, R Programlama Dili ile Makina Öğrenmesi , Van Yüzüncü Yıl Üniversitesi, 2018

Research Areas

Biostatistics and Medical Informatics

Academic Titles / Tasks

Assistant Professor, Erzincan Binali Yıldırım University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2020 - Continues

Lecturer, Bitlis Eren University, Health Services Vocational School, Department Of Medical Services And Techniques, 2018 - 2020

Academic and Administrative Experience

Head of Department, Erzincan Binali Yıldırım University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2020 - Continues

Jury Memberships

Doctorate, Doctorate, Iğdır Üniversitesi, April, 2023

Post Graduate, Post Graduate, Van Yüzüncü Yıl Üniversitesi, June, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigating the individual and combined effects of coenzyme Q10 and vitamin C on CLP-induced cardiac injury in rats**
ÜSTÜNDAĞ H., DEMİR Ö., HUYUT M. T., YÜCE N.
Scientific Reports, vol.14, no.1, 2024 (SCI-Expanded)
- II. **Enhanced efficacy of resveratrol-loaded silver nanoparticle in attenuating sepsis-induced acute liver injury: Modulation of inflammation, oxidative stress, and SIRT1 activation**
Üstündağ H., Danişman Kalindemirtaş F., Doğanay S., Demir Ö., Kurt N., Tahir Huyut M. T., Özgeriş B., Kariper İ. A.
Shock, vol.60, no.5, pp.688-697, 2023 (SCI-Expanded)
- III. **Oxidative Stress Enzyme NOX1 Is a New and Important Biomarker for Childhood Appendicitis?**
Avci V., Ayengin K., Huyut Z., HUYUT M. T., Soysal L., Bilici S.
Indian Journal of Surgery, vol.85, no.5, pp.1139-1148, 2023 (SCI-Expanded)
- IV. **A new treatment approach: Melatonin and ascorbic acid synergy shields against sepsis-induced heart and kidney damage in male rats**
Üstündağ H., Doğanay S., Huyut M. T., Kurt N., Demir Ö., Özgeriş F. B., Akbaba Ö., Kalindemirtaş F.
Life Sciences, vol.329, 2023 (SCI-Expanded)
- V. **Protective effect of melatonin and ascorbic acid combination on sepsis-induced lung injury: An Experimental study**
ÜSTÜNDAĞ H., DEMİR Ö., ÇİÇEK B., HUYUT M. T., YÜCE N., Tavacı T.
Clinical and Experimental Pharmacology and Physiology, vol.50, no.8, pp.634-646, 2023 (SCI-Expanded)
- VI. **Effect of ferritin, INR, and D-dimer immunological parameters levels as predictors of COVID-19 mortality: A strong prediction with the decision trees**
HUYUT M. T., Huyut Z.
Heliyon, vol.9, no.3, 2023 (SCI-Expanded)
- VII. **Automatic Detection of Severely and Mildly Infected COVID-19 Patients with Supervised Machine Learning Models**
Huyut M. T.
IRBM, vol.44, no.1, 2023 (SCI-Expanded)
- VIII. **Effect of curcumin on lipid profile, fibrosis, and apoptosis in liver tissue in abemaciclib-administered rats**
Huyut Z., Uçar B., Altındağ F., Yıldızhan K., HUYUT M. T.
Drug and Chemical Toxicology, vol.46, no.6, pp.1138-1146, 2023 (SCI-Expanded)
- IX. **Exploring the Impact of Ketogenic Diet and Intermittent Fasting on Male Rats' Testicular Health: An Analysis of Hormonal Regulation, Oxidative Stress, and Spermatogenesis**
Üstündağ H., Doğanay S., Öztürk B., Köse F., Kurt N., Aydemir Celep N., Huyut M. T., Özgeriş F. B.
Journal of Food Biochemistry, vol.2023, 2023 (SCI-Expanded)
- X. **Detection of Risk Predictors of COVID-19 Mortality with Classifier Machine Learning Models Operated with Routine Laboratory Biomarkers**
Huyut M. T., Velichko A., Belyaev M.
APPLIED SCIENCES, vol.12, no.23, pp.2-26, 2022 (SCI-Expanded)
- XI. **Machine Learning Sensors for Diagnosis of COVID-19 Disease Using Routine Blood Values for**

Internet of Things Application

Velichko A., HUYUT M. T., Belyaev M., Izotov Y., Korzun D.

Sensors, vol.22, no.20, 2022 (SCI-Expanded)

- XII. **Diagnosis and Prognosis of COVID-19 Disease Using Routine Blood Values and LogNet Neural Network**
HUYUT M. T., Velichko A.
Sensors, vol.22, no.13, 2022 (SCI-Expanded)
- XIII. **What is the impact and efficacy of routine immunological, biochemical and hematological biomarkers as predictors of COVID-19 mortality?**
Tahir Huyut M. T., Huyut Z., İlkbahar F., Mertoglu C.
International Immunopharmacology, vol.105, 2022 (SCI-Expanded)
- XIV. **Can zaprinast and avanafil induce the levels of angiogenesis, bone morphogenic protein 2, 4 and 7 in kidney of ovariectomised rats?**
Huyut Z., BAKAN N., YILDIRIM S., Akbay H. İ., HUYUT M. T., Ahlatcı A., Uçar B.
ARCHIVES OF PHYSIOLOGY AND BIOCHEMISTRY, vol.128, no.4, pp.945-950, 2022 (SCI-Expanded)
- XV. **Forecasting of Oxidant/Antioxidant levels of COVID-19 patients by using Expert models with biomarkers used in the Diagnosis/Prognosis of COVID-19**
HUYUT M. T., Huyut Z.
INTERNATIONAL IMMUNOPHARMACOLOGY, vol.100, 2021 (SCI-Expanded)
- XVI. **The effectiveness of blood routine parameters and some biomarkers as a potential diagnostic tool in the diagnosis and prognosis of Covid-19 disease**
HUYUT M. T., İLKBAHAR F.
INTERNATIONAL IMMUNOPHARMACOLOGY, vol.98, 2021 (SCI-Expanded)
- XVII. **How do routine laboratory tests change in coronavirus disease 2019?**
Mertoglu C., Huyut M. T., Arslan Y. K., Ceylan Y., Coban T. A.
SCANDINAVIAN JOURNAL OF CLINICAL & LABORATORY INVESTIGATION, vol.81, no.1, pp.24-33, 2021 (SCI-Expanded)
- XVIII. **Investigation of the effects of cephalosporin antibiotics on glutathione S-transferase activity in different tissues of rats in vivo conditions in order to drug development research**
Turkan F., Huyut Z., Taslimi P., Huyut M. T., GÜLÇİN İ.
DRUG AND CHEMICAL TOXICOLOGY, vol.43, no.4, pp.423-428, 2020 (SCI-Expanded)
- XIX. **In vivo biochemical evaluations of some beta-lactam group antibiotics on glutathione reductase and glutathione S- transferase enzyme activities**
Turkan F., Huyut Z., Huyut M. T., Calimli M. H.
LIFE SCIENCES, vol.231, 2019 (SCI-Expanded)
- XX. **Characteristics of resveratrol and serotonin on antioxidant capacity and susceptibility to oxidation of red blood cells in stored human blood in a time-dependent manner**
Huyut Z., Sekeroglu M. R., Balahoroglu R., Huyut M. T.
JOURNAL OF INTERNATIONAL MEDICAL RESEARCH, vol.46, no.1, pp.272-283, 2018 (SCI-Expanded)
- XXI. **Sleep Apnea and Fatty Liver Are Coupled Via Energy Metabolism**
Arisoy A., Sertogullarindan B., Ekin S., Özgökçe M., Bulut M. D., Huyut M. T., Olmez S., Turan M.
MEDICAL SCIENCE MONITOR, vol.22, pp.908-913, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Detection of Right Ventricular Dysfunction Using LogNet Neural Network Model Based on Pulmonary Embolism Data Set**
HUYUT M. T., Velichko A., Belyaev M., Karaoğlanoğlu Ş., Sertogullarindan B., DEMİR A. Y.
Eastern Journal of Medicine, vol.29, no.1, pp.118-128, 2024 (Scopus)
- II. **Datasets Created from Routine Laboratory Parameters for Use in the Diagnosis, Prognosis, and**

Mortality of COVID-19

HUYUT M. T.

Jundishapur Journal of Health Sciences, vol.15, no.2, 2023 (Peer-Reviewed Journal)

- III. **Oxyhemoglobin Dissociation Curve in COVID-19 Patients**
Üstündağ H., Mertoğlu C., Huyut M. T.
MEANDROS MEDICAL AND DENTAL JOURNAL, vol.24, no.1, pp.58-64, 2023 (ESCI)
- IV. **Does the severity of anal fissure trigger constipation?**
AVCI V., HUYUT M. T.
Cocuk Cerrahisi Dergisi, vol.37, no.3, pp.99-104, 2023 (Scopus)
- V. **LogNet model as a fast, simple and economical AI instrument in the diagnosis and prognosis of COVID-19**
HUYUT M. T., Velichko A.
MethodsX, vol.10, 2023 (ESCI)
- VI. **COVID-19 is more dangerous for older people and its severity is increasing: a case-control study.**
Mertoglu C., Huyut M. T., Olmez H., Tosun M., Kantarci M., Coban T. A.
Medical gas research, vol.12, no.2, pp.51-54, 2022 (ESCI)
- VII. **Prediction of diagnosis and prognosis of COVID-19 disease by blood gas parameters using decision trees machine learning model: a retrospective observational study.**
Huyut M. T., Üstündağ H.
Medical gas research, vol.12, no.2, pp.60-66, 2022 (ESCI)
- VIII. **Abundance and Distribution of Fish in the Zilan Stream (Van/ Turkey) Its Relationship with Some Physicochemical Parameters**
AKKUŞ M., HUYUT M. T.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.15, no.1, pp.204-216, 2022 (Peer-Reviewed Journal)
- IX. **The Effect of Some Symptoms and Features During the Infection Period on the Level of Anxiety and Depression of Adults after Recovery from COVID-19**
HUYUT M. T., Kocatürk İ.
Current Psychiatry Research and Reviews, vol.18, no.2, pp.151-163, 2022 (ESCI)
- X. **The multi-relationship structure between some symptoms and features seen during the new coronavirus 19 infection and the levels of post-covid anxiety and depression**
HUYUT M. T., SOYGÜDER S.
EASTERN JOURNAL OF MEDICINE, vol.27, no.1, pp.1-10, 2022 (Scopus)
- XI. **The Success of Restricted Ordination Methods in Data Analysis with Variables at Different Scale Levels**
HUYUT M. T., KESKİN S.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.14, no.1, pp.215-231, 2021 (Peer-Reviewed Journal)
- XII. **The Effect of Nettle Seed Extract on Malondialdehyde, Copper, Zinc and Superoxide Dismutase Levels in Kidney Tissue of Rats Exposed To Ionising Radiation**
Ahlatcı A., Yıldızhan K., Huyut Z., Huyut M. T., Çakır T.
Archives of Basic and Clinical Research, vol.2, no.1, pp.1-6, 2020 (Peer-Reviewed Journal)
- XIII. **Matematik Başarısına Etki Eden Faktörlerin: Çevresel Faktörlerin Çoklu Uyum Analizi İle İncelenmesi**
HUYUT M. T., KESKİN S.
Türkiye Teknoloji ve Uygulamalı Bilimler Dergisi, vol.1, no.2, pp.48-59, 2017 (Peer-Reviewed Journal)
- XIV. **Matematik Başarısına Etki Eden Faktörlerin: Bireysel Faktörlerin Çoklu Uyum Analizi İle Belirlenmesi**
HUYUT M. T., KESKİN S.
Türkiye Teknoloji ve Uygulamalı Bilimler Dergisi, vol.1, no.2, pp.60-72, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **KISITLI ORDİNASYON YÖNTEMLERİNDEN: KANONİK UYUM ANALİZİ VE GEREKSİZLİK ANALİZİ**

YÖNTEMLERİNİN İNCELENMESİ

Huyut M. T.

LAP LAMBERT, Riga, 2019

II. Gradient Analizleri

Huyut M. T.

LAP LAMBERT, Riga, 2019

III. Kısmi Kanonik Ordinasyon Yöntemi (VaryasyonParçalama)

HUYUT M. T.

in: "Mühendislik, Matematik ve Doğa Bilimlerinde Yenilikçi Yaklaşımlar / Innovative Approaches in Engineering, Mathematic and Natural Sciences", ÖZSEVEN Turgut, YAŞAR Ebubekir, DÜĞENCİ Muharrem, Yıldırım Sena Özen, Çetin Şirin, Editor, Ekin, Bursa, pp.66-80, 2019

IV. Kanonik Ordinasyon ve Hesaplama Adımları

HUYUT M. T.

in: "Mühendislik, Matematik ve Doğa Bilimlerinde Yenilikçi Yaklaşımlar / Innovative Approaches in Engineering, Mathematic and Natural Sciences", ÖZSEVEN Turgut, YAŞAR Ebubekir, DÜĞENCİ Muharrem, Yıldırım Sena Özen, Çetin Şirin, Editor, Ekin, Bursa, pp.80-103, 2019

Refereed Congress / Symposium Publications in Proceedings

I. LogNet Neural Network Application for Diabetes Mellitus Diagnosis

Izotov Y., HUYUT M. T., Velichko A.

4th International Conference on Agricultural Engineering and Green Infrastructure for Sustainable Development, AEGISD 2024, Tashkent, Uzbekistan, 28 - 30 March 2024, vol.105

II. The Effect of Religious Intervention on Vital Findings in Coma Patients in the Surgical Intensive Care Unit

OKUTAN Ş., HUYUT M. T.

5 th INTERNATIONAL WORLD HEALTH CONGRESS, Adana, Turkey, 5 - 06 August 2023, vol.10

III. Investigation of the Effect of Virtual Reality on Comfort and Satisfaction Levels in Oncology Patients Receiving Chemotherapy Treatment

OKUTAN Ş., HUYUT M. T.

5 th INTERNATIONAL WORLD HEALTH CONGRESS, Adana, Turkey, 5 - 06 August 2023, vol.1

IV. INVESTIGATION OF THE EFFECT OF VIRTUAL REALITY ON PAIN AND ANXIETY LEVELS IN ONCOLOGY PATIENTS

OKUTAN Ş., HUYUT M. T.

10TH INTERNATIONAL CONGRESS ON MEDICINE, NURSING, AND HEALTH SCIENCES IN A CHANGING WORLD, Ankara, Turkey, 12 - 14 August 2023, vol.1

V. Diagnosis and Prognosis of COVID-19 Disease Using Routine Blood Values and LogNet Neural Network

HUYUT M. T., Velichko A.

23.Ulusal ve 6. Uluslararası Biyoistatistik Kongresi, Ankara, Turkey, 27 October 2022

VI. Machine Learning Sensors for Diagnosis of COVID-19 Disease Using Routine Blood Values for Internet of Things Application

HUYUT M. T., Velichko A., MAKSİM B.

23.Ulusal ve 6. Uluslararası Biyoistatistik Kongresi, Ankara, Turkey, 26 October 2022

VII. The Effectiveness of Blood Routine Parameters and Some Biomarkers as a Potential Diagnostic Tool in the Diagnosis and Prognosis of COVID-19 Disease

HUYUT M. T., KESKİN S.

23.Ulusal ve 6. Uluslararası Biyoistatistik Kongresi, Ankara, Turkey, 26 October 2022

VIII. The Psychological Impact of the Covid-19 Outbreak Among Infected Patients

HUYUT M. T., SOYGÜDER S.

4th International Conference on Data Science and Applications (ICONDATA'21), Turkey, 04 June 2021, vol.2, pp.3

- IX. **Determination of Ischemic Heart Disease Using Supervised Machine Learning Methods**
HUYUT M. T., SOYGÜDER S.
IV International Conference on Data Science and Applications (ICONDATA'21), Turkey, 04 June 2021, vol.1, pp.539-547
- X. **DETERMINATION OF THE OPTIMUM PREDICTION VALUES OF LABORATORY RESULTS OF COVID-19 PATIENTS ACCORDING TO SERVICES WITH CLASSIFICATION AND REGRESSION DECISION TREES: CROSS-SECTIONAL STUDY**
HUYUT M. T.
V. INTERNATIONAL SCIENTIFIC AND VOCATIONAL STUDIES CONGRESS – SCIENCE AND HEALTH, Turkey, 12 - 14 December 2020, pp.33-34
- XI. **A FULLY AUTOMATED MULTI PLATFORM SOFTWARE SAMPLE THAT CAN SUGGEST PERSONALIZED DAILY ACTIVITIES FOR A HEALTHY LIFE**
HUYUT M. T., İLKBAHAR F.
International Conference on Engineering Technologies, 19 - 21 November 2020, pp.47
- XII. **Denetimsiz makine öğrenmesi yöntemlerinin Covid-19 hastalığının belirlenmesindeki Performansı**
İLKBAHAR F., HUYUT M. T.
International Eurasian Conference on Biotechnology and Biochemistry, Ankara, Turkey, 16 - 18 December 2020, pp.106
- XIII. **Kestirim Fonksiyonları Güncellenerek Kullanılan Naive-Bayes Makine Öğrenmesi Yönteminin Covid-19 Hastalık Şiddetinin Belirlenmesindeki Kararlılığı**
HUYUT M. T.
International Conference on Research in Health Sciences, 14 - 15 November 2020, pp.209
- XIV. **Overektomili Siçanlarda Zaprınast ve Avanafil'xxin Anjiyogenez, kemik Morfojenik Protein 2, 4 ve 7 düzeyleri üzerine indükleyici etkisi**
HUYUT Z., BAKAN N., YILDIRIM S., AKBAY H. İ., HUYUT M. T., AHLATÇI A., UÇAR B.
II. Uluslararası Tıp ve Sağlık Kongresi, 1 - 03 November 2019, pp.135-136
- XV. **Işınlanmış Siçanların Böbrek Dokusunda, Isırgan Otu Tohumu Ekstraktı'nın Malondialdehit, Bakır, Süperoksit Dismutaz ve Çinko Düzeyleri Üzerine Etkisi**
YILDIZHAN K., HUYUT Z., HUYUT M. T., AHLATCI A.
31. Ulusal Biyofizik Kongresi, Adana, Turkey, 9 - 12 October 2019, pp.34-35
- XVI. **İYONİZE RADYASYONA MARUZ KALAN SIÇANLARIN BEYİN DOKUSUNDA ENGİNAR (Cynara scolymus L.) EKSTRAKTI OKSİDAN/ANTİOKSİDAN DENGESİ ÜZERİNE KORUYUCU ETKİ GÖSTEREBİLİR Mİ?**
YILDIZHAN K., AHLATCI A., HUYUT Z., HUYUT M. T.
ULUSLARARASI MÜZİK DANS VE SAĞLIK KONGRESİ 11 - 13 EKİM 2018, Van, Turkey, 10 - 13 October 2018, pp.41-52
- XVII. **Investigation of Relationship Between Socio-Economic and Physical Variables and Mathematics Success Category**
HUYUT M. T.
International Conference on Data Science and Applications, Yalova, Turkey, 4 - 07 October 2018, pp.510-522
- XVIII. **Evaluation of performance of some normality tests according to empirical results produced from symmetric distributions**
HUYUT M. T.
International Conference on Data Science and Applications, Yalova, Turkey, 4 - 07 October 2018, pp.1-12
- XIX. **Assessing The Relationship Between Cognitive And Sensory Behaviors Of Students And Their Mathematical Achievements**
HUYUT M. T.
International Conference on Data Science and Applications, Yalova, Turkey, 4 - 07 October 2018, pp.138-139
- XX. **Investigation of Some Individual Factors Affecting The Success of Mathematics with Multiple Correspondence Analysis**
HUYUT M. T., KESKİN S.

4. International Researchers, Statisticians and Young Statisticians Congress, İzmir, Turkey, 28 - 30 April 2018, pp.204

XXI. Evaluation of Selected Some Environmental Factors Affecting the the Success of Mathematics with Multiple Correspondence Analysis

HUYUT M. T., KESKİN S.

4. International Researchers, Statisticians and Young Statisticians Congress, İzmir, Turkey, 28 - 30 April 2018, pp.53

XXII. Bazı Antibiyotiklerin Karaciğer,Böbrek ve Kalp Dokularında Glutasyon- S-Transferaz Aktivitesi Üzerine Etkisi

TÜRKAN F., HUYUT Z., Taslimi P., HUYUT M. T., GÜLÇİN İ.

28. ULUSAL ve ULUSLARARASI BİYOKİMYA KONGRESİ, Erzurum, Turkey, 19 - 23 September 2017, pp.137

XXIII. Investigation of in Vivo Effects of Arachidonoyl Dopamine on Lipid Peroxidation and Some Enzyme Activities in Rat Tissue and Erythrocytes

HUYUT Z., BEYDEMİR Ş., GÜLÇİN İ., HUYUT M. T.

Innovation in Medicine Summit, Gaziantep, Turkey, 11 - 13 May 2017, pp.127

Supported Projects

Huyut M. T., Huyut Z., Altındağ F., Yıldızhan K., Uçar B., Project Supported by Higher Education Institutions, Sıçanlarda Abemasiklib ve Kurkumin Uygulamasının Karaciğer Fonksiyon Testleri, Lipid Profili, Fibrozis ve Apoptoz ile İlişkisi, 2022 - 2022

Scientific Refereeing

JOURNAL OF INFLAMMATION RESEARCH, SCI Journal, February 2023

Future Science OA, SCI Journal, January 2023

INTERNATIONAL JOURNAL OF GENERAL MEDICINE, SCI Journal, January 2023

Tropical Medicine and Infectious Disease, SCI Journal, November 2022

OPEN MEDICINE, National Scientific Refreed Journal, November 2022

HELIYON, SCI Journal, September 2022

JOURNAL OF INTERNATIONAL MEDICAL RESEARCH, SCI Journal, September 2022

BIOMEDICAL AND ENVIRONMENTAL SCIENCES, SCI Journal, July 2022

INFECTION AND DRUG RESISTANCE, SCI Journal, July 2022

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, April 2022

BIOCHEMISTRY RESEARCH INTERNATIONAL, Journal Indexed in ESCI, October 2021

Cerrahpaşa Medical Journal, Other Indexed Journal, October 2021

Project Supported by Higher Education Institutions, BAP Research Project, Van Yüzüncü Yıl University, Turkey, October 2021

Metrics

Publication: 63

Citation (WoS): 114

Citation (Scopus): 277

H-Index (WoS): 5

H-Index (Scopus): 10

Non Academic Experience

MİLLÎ EĞİTİM BAKANLIĞI
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