



2023 YILI
WoS Q1 VE Q2 MAKALELER

Uzay Bilimleri ve Teknolojileri Bölümü



Advances in Space Research

Volume 71, Issue 7, 1 April 2023, Pages 3060-3075



WoS
Q1

2021 Turkey mega forest Fires: Biodiversity measurements of the IUCN Red List wildlife mammals in Sentinel-2 based burned areas

Fulya Aydin-Kandemir^{a b} ✉, Nusret Demir^c ✉

<https://doi.org/10.1016/j.asr.2023.01.031> ↗

Uzay Bilimleri ve Teknolojileri Bölümü

Monthly Notices

of the

ROYAL ASTRONOMICAL SOCIETY



MNRAS 521, 1099–1112 (2023)

Advance Access publication 2023 February 23

<https://doi.org/10.1093/mnras/stad576>



Discovery of optical emission associated with the supernova remnant G107.5–1.5

H. Bakış,^{1★} G. Bulut,¹ V. Bakış^{ID},¹ H. Sano² and A. Sezer^{ID}³

¹*Department of Space Sciences and Technologies, Akdeniz University, 07058 Antalya, Turkey*

²*Faculty of Engineering, Gifu University, 1-1 Yanagido, Gifu 501-1193, Japan*

³*Department of Electrical-Electronics Engineering, Avrasya University, 61250 Trabzon, Turkey*

Accepted 2023 February 19. Received 2023 January 27; in original form 2022 June 13

WoS
Q1

Uzay Bilimleri ve Teknolojileri Bölümü

Monthly Notices

of the

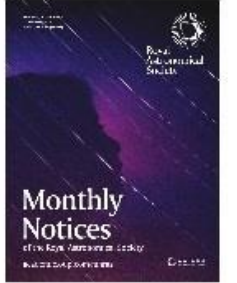
ROYAL ASTRONOMICAL SOCIETY



MNRAS 527, 11685–11693 (2024)

Advance Access publication 2023 December 21

<https://doi.org/10.1093/mnras/stad3943>



Discovery of optical emission from the supernova remnant G108.2–0.6 and its atomic environment

G. Paylı ¹, H. Bakış, ¹★ E. Aktekin,² H. Sano³ and A. Sezer ⁴

¹*Department of Space Sciences and Technologies, Akdeniz University, 07058 Antalya, Türkiye*

²*Department of Physics, Süleyman Demirel University, 32000 Isparta, Türkiye*

³*Faculty of Engineering, Gifu University, 1-1 Yanagido, Gifu 501-1193, Japan*

⁴*Department of Computer Engineering, Avrasya University, 61250, Trabzon, Türkiye*

Accepted 2023 December 19. Received 2023 December 19; in original form 2023 September 6

WoS
Q1

Uzay Bilimleri ve Teknolojileri Bölümü

WoS
Q1

Monthly Notices

of the

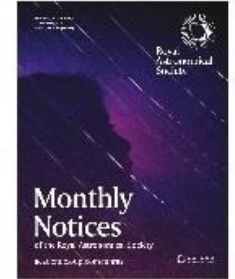
ROYAL ASTRONOMICAL SOCIETY



MNRAS **523**, 2440–2452 (2023)

Advance Access publication 2023 May 25

<https://doi.org/10.1093/mnras/stad1563>



Testing multiband (G , G_{BP} , G_{RP} , B , V , and $TESS$) standard bolometric corrections by recovering luminosity and radii of 341 host stars

Z. Eker[✉] and V. Bakış[✉]

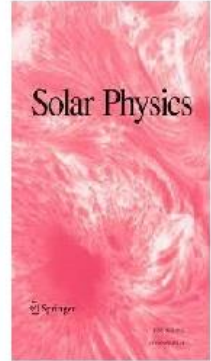
Department of Space Sciences and Technologies, Faculty of Sciences, Akdeniz University, Antalya 07058, Türkiye

Accepted 2023 May 19. Received 2023 May 18; in original form 2023 April 30

Uzay Bilimleri ve Teknolojileri Bölümü

Solar Physics (2023) 298:103
<https://doi.org/10.1007/s11207-023-02198-3>

RESEARCH



Relationships Between Physical Parameters of Umbral Dots Measured for 12 Sunspot Umbras with the Goode Solar Telescope

M. Ali Calisir¹  · H. Tayfun Yazici¹  · Ali Kilcik¹  · Vasyli Yurchyshyn² 

Received: 10 May 2023 / Accepted: 11 August 2023 / Published online: 5 September 2023

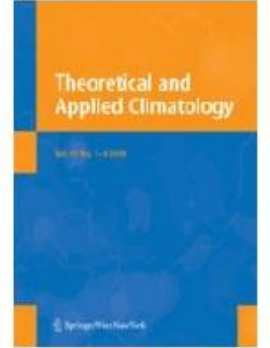
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WoS
Q2


Uzay Bilimleri ve Teknolojileri Bölümü

Theoretical and Applied Climatology (2023) 152:265–279
<https://doi.org/10.1007/s00704-023-04386-4>

ORIGINAL PAPER



Prediction of climatic changes caused by land use changes in urban area using artificial neural networks

Derya Arabacı¹  · Çağdaş Kuşçu Şimşek² 

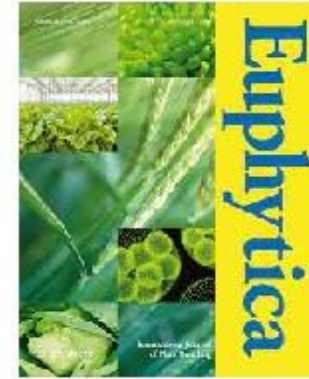
Received: 28 December 2021 / Accepted: 27 January 2023 / Published online: 22 February 2023

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WoS
Q2

Uzay Bilimleri ve Teknolojileri Bölümü

Euphytica (2023) 219:83
<https://doi.org/10.1007/s10681-023-03211-3>



UAV-based imaging for selection of turfgrass drought resistant cultivars in breeding trials

Songul Sever Mutlu  · Namık Kemal Sönmez  ·
Mesut Coşlu  · Hasan Raşit Türkkkan  ·
Damla Zorlu 

Received: 12 January 2023 / Accepted: 25 June 2023 / Published online: 13 July 2023
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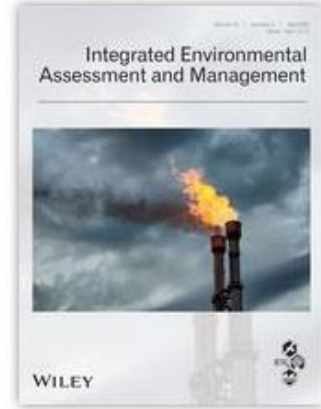
WoS
Q2

Uzay Bilimleri ve Teknolojileri Bölümü

WoS
Q2

Integrated Environmental Assessment and Management

Ecosystem Services



Determination of the optimum number of sample points to classify land cover types and estimate the contribution of trees on ecosystem services using the I-Tree Canopy tool

Serdar Selim ✉, Burçin Dönmez, Ali Kilçik

First published: 25 October 2022 | <https://doi.org/10.1002/ieam.4704>

Volume 19, Issue 3

May 2023

Pages 726-734

Uzay Bilimleri ve Teknolojileri Bölümü



Advances in Space Research

Available online 4 January 2024

In Press, Corrected Proof [?](#) What's this? [↗](#)



WoS
Q2

Some observational properties of the Herbig Be Star AS 310

[Nariman Z. Ismailov](#)^a [✉](#), [Volkan Bakış](#)^b, [S.A. Alishov](#)^a, [Sh.K. Ismayilova](#)^a,
[F.S. Huseynova](#)^a

<https://doi.org/10.1016/j.asr.2023.12.052> [↗](#)

SON 3 YILDA YAYINLANIP
EN ÇOK ATIF ALAN
MAKALELER

Uzay Bilimleri ve Teknolojileri Bölümü

Atıf: 14

WoS
Q2

Clean Technologies and Environmental Policy (2021) 23:1233–1250
<https://doi.org/10.1007/s10098-020-02018-3>

ORIGINAL PAPER



Site suitability analysis for solar farms using the geographic information system and multi-criteria decision analysis: the case of Antalya, Turkey

Şura Kırçalı¹ · Serdar Selim² 

Received: 20 June 2020 / Accepted: 23 December 2020 / Published online: 16 January 2021

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Uzay Bilimleri ve Teknolojileri Bölümü

Atıf: 6

WoS
Q1

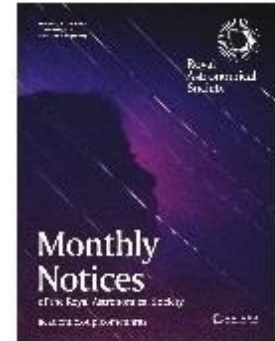
JOURNAL ARTICLE

Standard stellar luminosities: what are typical and limiting accuracies in the era after *Gaia*? FREE

Z Eker ✉, F Soyduğan, S Bilir, V Bakış

Monthly Notices of the Royal Astronomical Society, Volume 507, Issue 3, November 2021,
Pages 3583–3592, <https://doi.org/10.1093/mnras/stab2302>

Published: 08 September 2021 **Article history** ▼



Uzay Bilimleri ve Teknolojileri Bölümü



Urban Climate
Volume 38, July 2021, 100914



Simulation of the climatic changes around the coastal land reclamation areas using artificial neural networks

Çağdaş Kuşçu Şimşek^a  , Derya Arabacı^b 

<https://doi.org/10.1016/j.uclim.2021.100914> ↗

Atıf: 6

WoS
Q1

Uzay Bilimleri ve Teknolojileri Bölümü

A&A 661, L3 (2022)
<https://doi.org/10.1051/0004-6361/202243442>
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**Astronomy
&
Astrophysics**

Atıf: 5

WoS
Q1

Refinement of the convex shape model and tumbling spin state of (99942) Apophis using the 2020–2021 apparition data

H.-J. Lee¹, M.-J. Kim¹, A. Marciniak², D.-H. Kim^{1,3}, H.-K. Moon¹, Y.-J. Choi^{1,4}, S. Zola⁵, J. Chatelain⁷, T. A. Lister⁷, E. Gomez⁸, S. Greenstreet^{9,10}, A. Pál¹¹, R. Szakáts¹¹, N. Erasmus¹², R. Lees¹³, P. Janse van Rensburg^{12,13}, W. Ogłóza⁶, M. Drózdź⁶, M. Żejmo¹⁴, K. Kamiński², M. K. Kamińska², R. Duffard¹⁵, D.-G. Roh¹, H.-S. Yim¹, T. Kim¹⁶, S. Mottola¹⁷, F. Yoshida^{18,19}, D. E. Reichart²⁰, E. Sonbas^{21,25}, D. B. Caton²², M. Kaplan²³, O. Erece^{23,24}, and H. Yang¹

(Affiliations can be found after the references)

Received 28 February 2022 / Accepted 1 April 2022

Uzay Bilimleri ve Teknolojileri Bölümü

A&A 658, A92 (2022)
<https://doi.org/10.1051/0004-6361/202142292>
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**Astronomy
&
Astrophysics**

Dynamical parallax, physical parameters, and evolutionary status of the components of the bright eclipsing binary α Draconis[★]

K. Pavlovski¹, C. A. Hummel², A. Tkachenko³, A. Dervişoğlu^{4,5}, C. Kayhan⁴, R. T. Zavala⁶, D. J. Hutter⁷,
C. Tycner⁷, T. Şahin⁸, J. Audenaert³, R. Baeyens³, J. Bodensteiner^{3,2}, D. M. Bowman³, S. Gebruers³,
N. E. Janssen³, and J. S. G. Mombarg³

¹ Department of Physics, Faculty of Science, University of Zagreb, 10 000 Zagreb, Croatia
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² European Southern Observatory, Karl-Schwarzschild-Str. 2, 85748 Garching, Germany

³ Institute of Astronomy, KU Leuven, Celestijnenlaan 200D, 3001 Leuven, Belgium

⁴ Department of Astronomy Space Sciences, Science Faculty, Erciyes University, 38030 Melikgazi, Kayseri, Turkey

⁵ Astronomy and Space Sciences Observatory and Research Center, Erciyes University, 38281 Talas, Kayseri, Turkey

⁶ U.S. Naval Observatory, Flagstaff Station, 10391 W. Naval Obs. Rd., Flagstaff, AZ 86001, USA

⁷ Central Michigan University, Department of Physics, Mt. Pleasant, MI 48859, USA

⁸ Akdeniz University, Faculty of Science, Department of Space Sciences and Technologies, 07058 Antalya, Turkey

Received 23 September 2021 / Accepted 2 November 2021

Atıf: 5

WoS
Q1

Uzay Bilimleri ve Teknolojileri Bölümü



agriculture



Article

Monitoring Maize Growth and Calculating Plant Heights with Synthetic Aperture Radar (SAR) and Optical Satellite Images

İbrahim Arslan ¹ , Mehmet Topakcı ² and Nusret Demir ^{3,*} 

¹ Remote Sensing and Geographic Information Systems Graduate Program, Institute of Natural and Applied Sciences, Akdeniz University, Antalya 07058, Turkey; 20175181001@ogr.akdeniz.edu.tr

² Department of Agricultural Machinery and Technologies Engineering, Faculty of Agriculture, Akdeniz University, Antalya 07058, Turkey; mtopakci@akdeniz.edu.tr

³ Department of Space Sciences and Technologies, Faculty of Science, Akdeniz University, Antalya 07058, Turkey

* Correspondence: nusretdemir@akdeniz.edu.tr; Tel.: +90-242-227-4400 (ext. 3826) or +90-242-310-2235 (ext. 2235)

Atıf: 4

WoS
Q1

Uzay Bilimleri ve Teknolojileri Bölümü

Atıf: 3

WoS
Q1

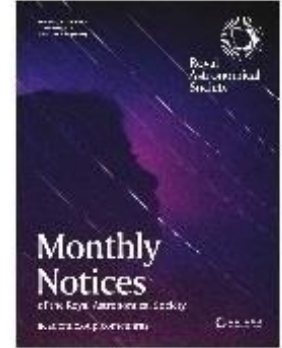
JOURNAL ARTICLE

Physical modelling of the circumstellar material in the early-type active binary HH Carinae FREE

H Bakış ✉, D T Köseoglu, V Bakış, C Nitschelm, Z Eker

Monthly Notices of the Royal Astronomical Society, Volume 503, Issue 2, May 2021, Pages 2432–2443, <https://doi.org/10.1093/mnras/stab560>

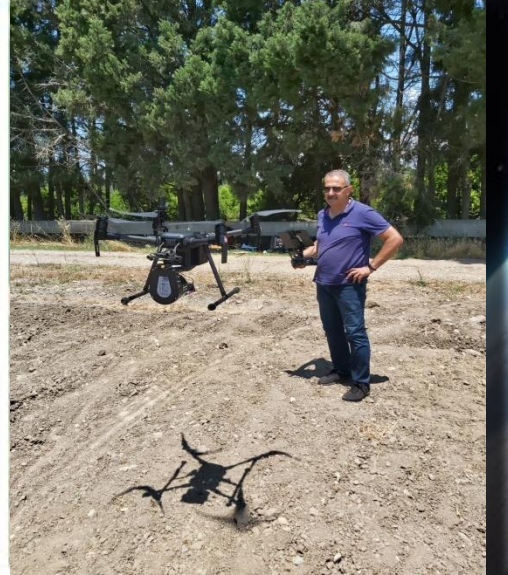
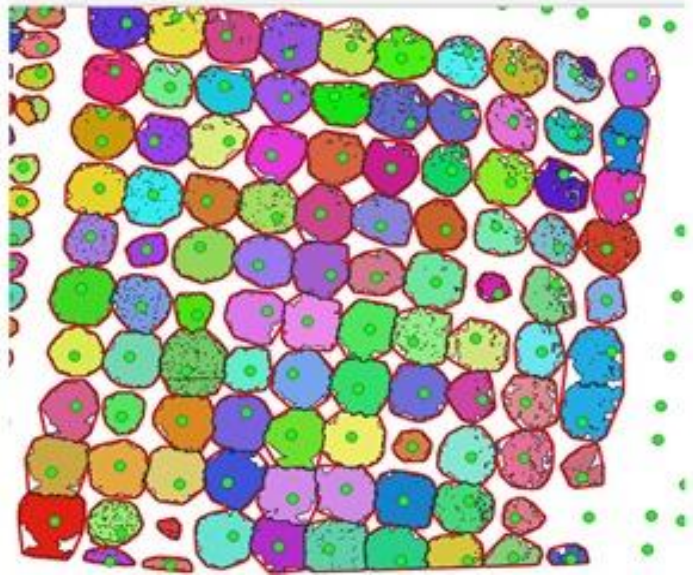
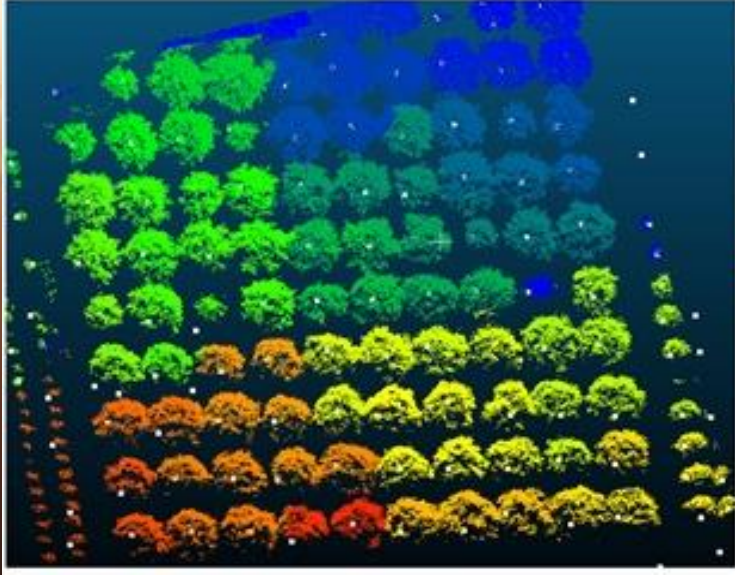
Published: 25 March 2021 **Article history** ▼





PROJELER

Uzay Bilimleri ve Teknolojileri Bölümü



Proje Adı : Narenciye Bahçelerinin Verim Bileşenlerinin Farklı Uzaktan Algılama Yöntemleri ile Belirlenmesi

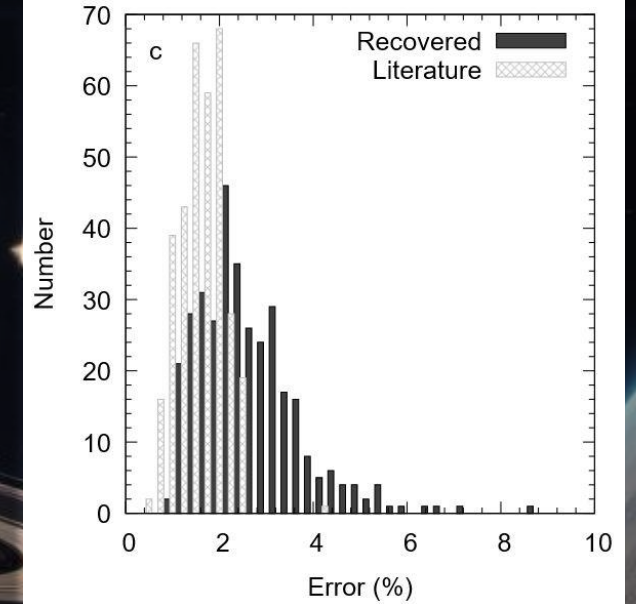
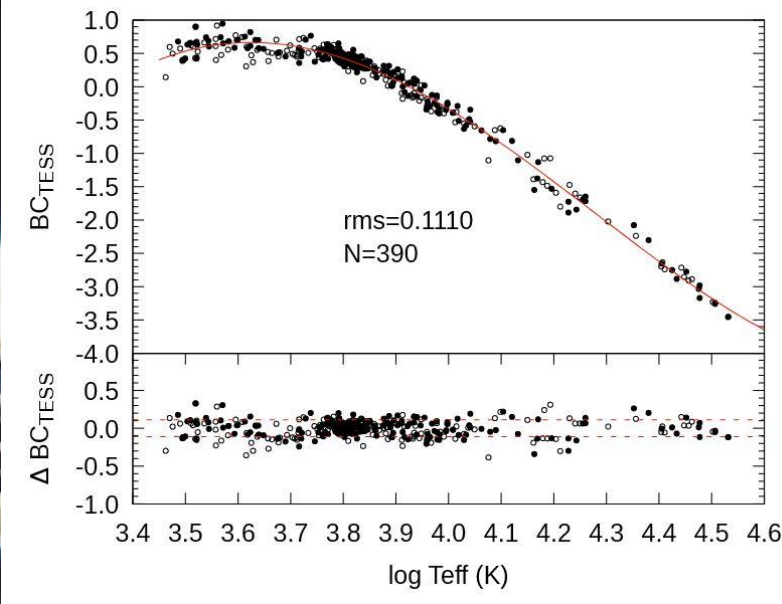
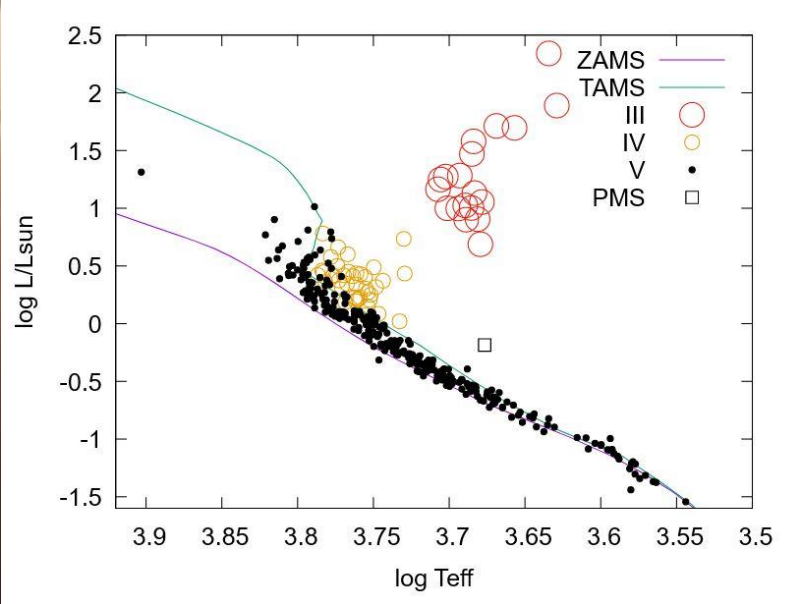
Proje Türü : Ulusal – TÜBİTAK – 1020990

Yürütücü : Prof. Dr. Namık Kemal SÖNMEZ



TÜBİTAK

Uzay Bilimleri ve Teknolojileri Bölümü



Proje Adı : Gezegenli Yıldızların Parametreleri ile Temel Astrofizikte Bazı İstatistik Bağlılıklar ve Bu Bağlılıklardaki Metal Bolluğu Etkisinin Araştırılması

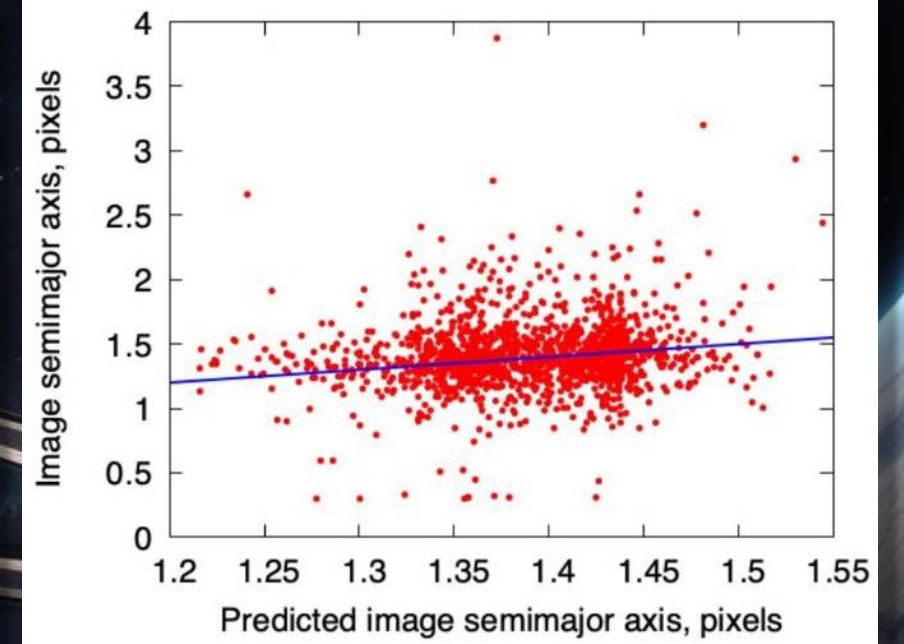
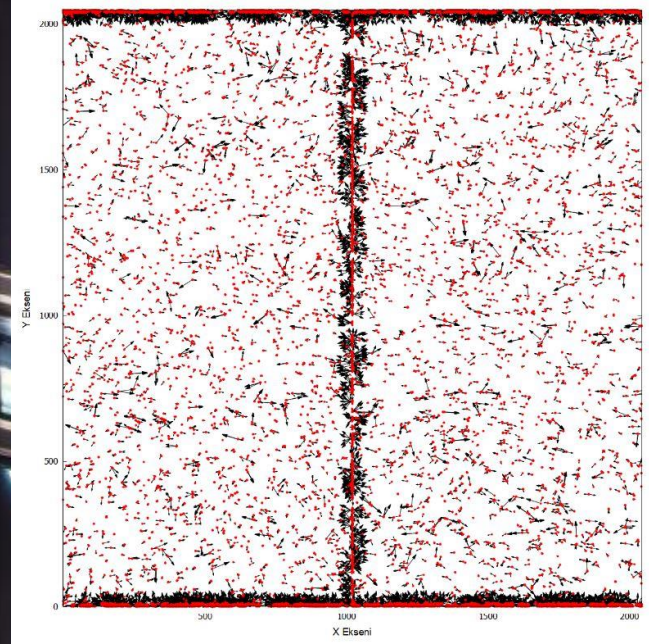
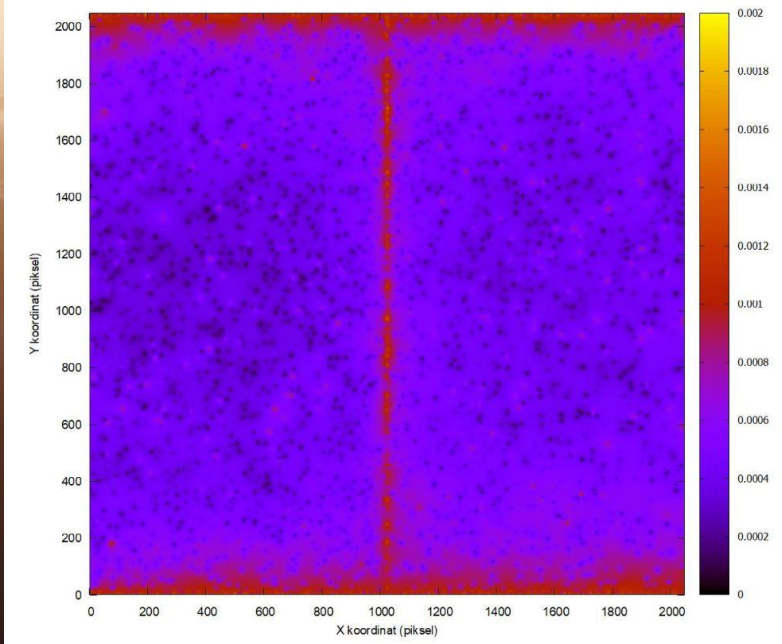
Proje Türü : Ulusal – TÜBİTAK – 122R053

Yürütücü : Prof. Dr. Volkan BAKIŞ



TÜBİTAK

Uzay Bilimleri ve Teknolojileri Bölümü



Proje Adı : Duyarlılığı Arttırılmış Gözlemlerle Potansiyel Tehlikeli Asteroidlerin Astrometrisi

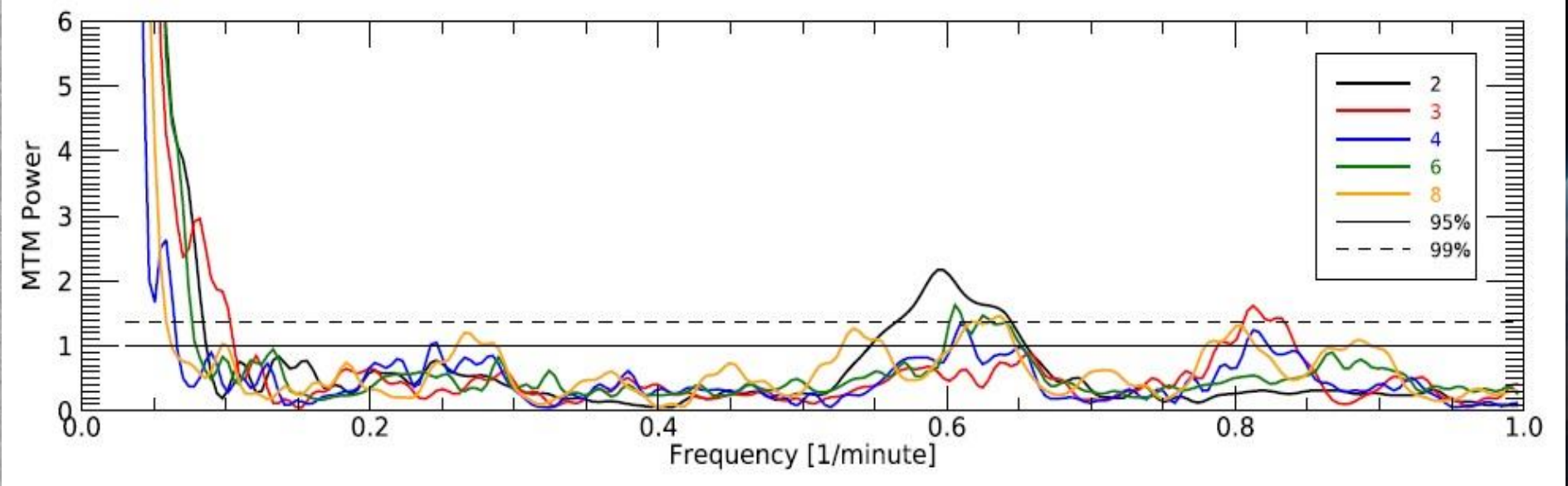
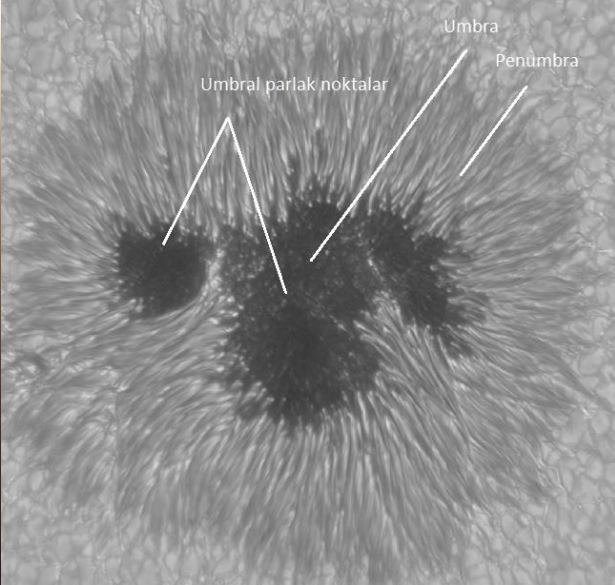
Proje Türü : Ulusal – TÜBİTAK – 118F036

Yürütücü : Prof. Dr. Volkan BAKIŞ



TÜBİTAK

Uzay Bilimleri ve Teknolojileri Bölümü



Proje Adı : Umbral Dot Parametrelerinin Güneş Leke Manyetik Alanı Ve Morfolojisine Bağlılığı

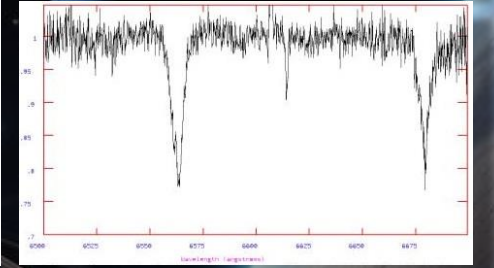
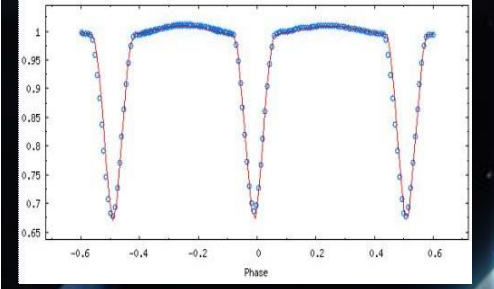
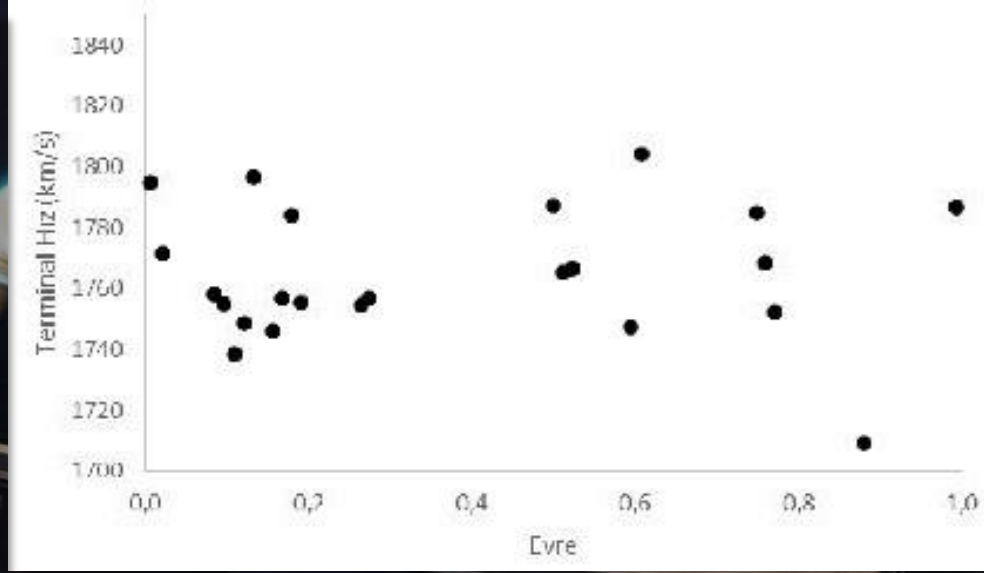
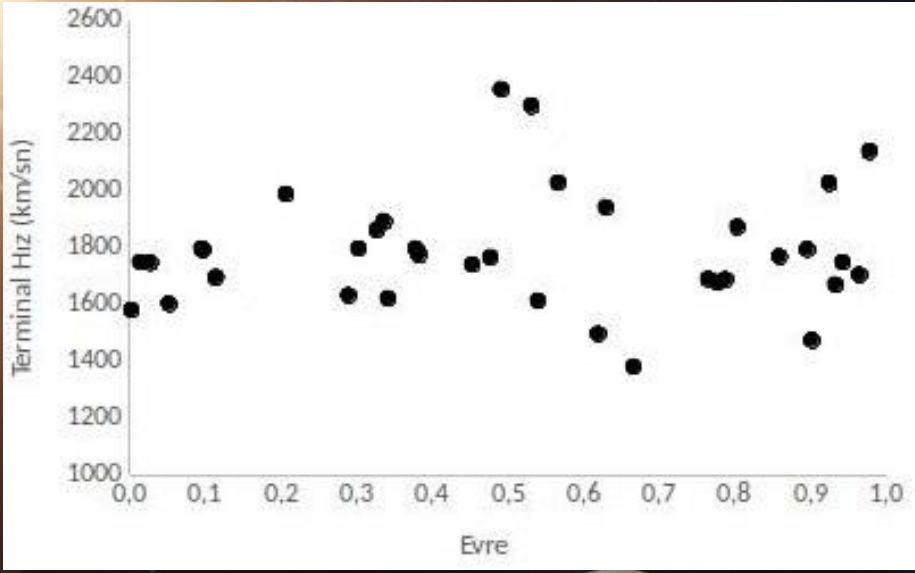
Proje Türü : Ulusal – TÜBİTAK – 122F004

Yürütücü : Prof. Dr. Ali KILÇIK



TÜBİTAK

Uzay Bilimleri ve Teknolojileri Bölümü



Proje Adı : Sıcak Bileşenli Etkileşen Çift Yıldız Sistemlerinde Yıldız Rüzgarlarının Terminal Hız Değişiminin Araştırılması

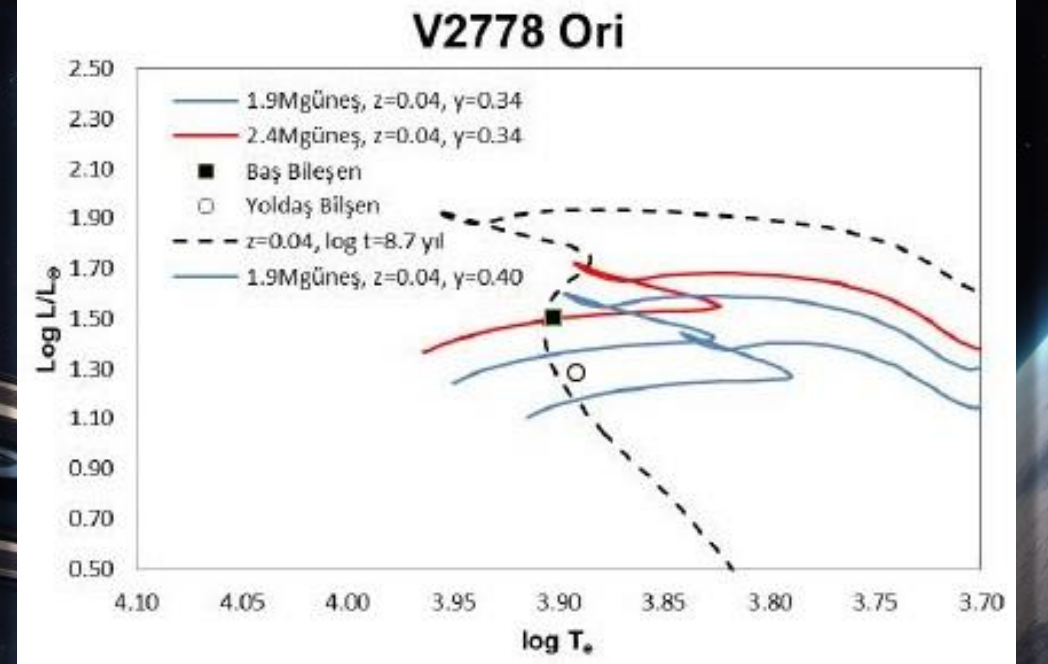
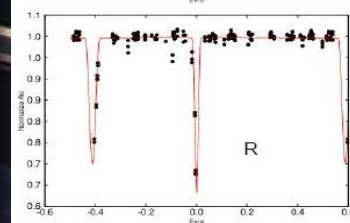
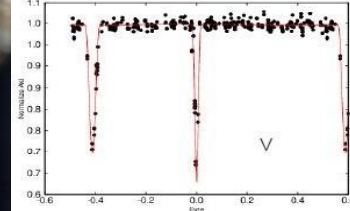
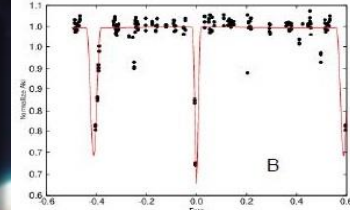
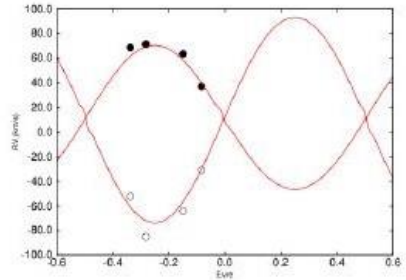
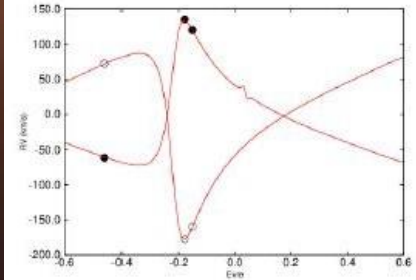
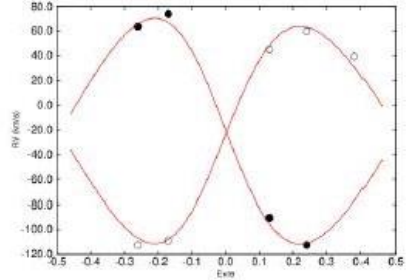
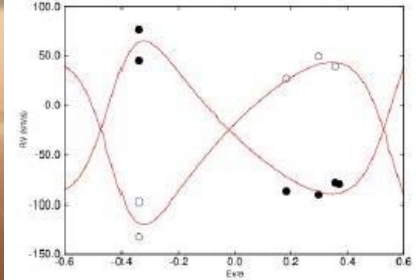
Proje Türü : Ulusal – TÜBİTAK – 120F073

Araştırmacı : Prof. Dr. Hicran BAKIŞ



TÜBİTAK

Uzay Bilimleri ve Teknolojileri Bölümü



Proje Adı : Basık Yörüngeli ve Uzun Dönemli Örten Çift Sistemlerin Ayrıntılı Analizi

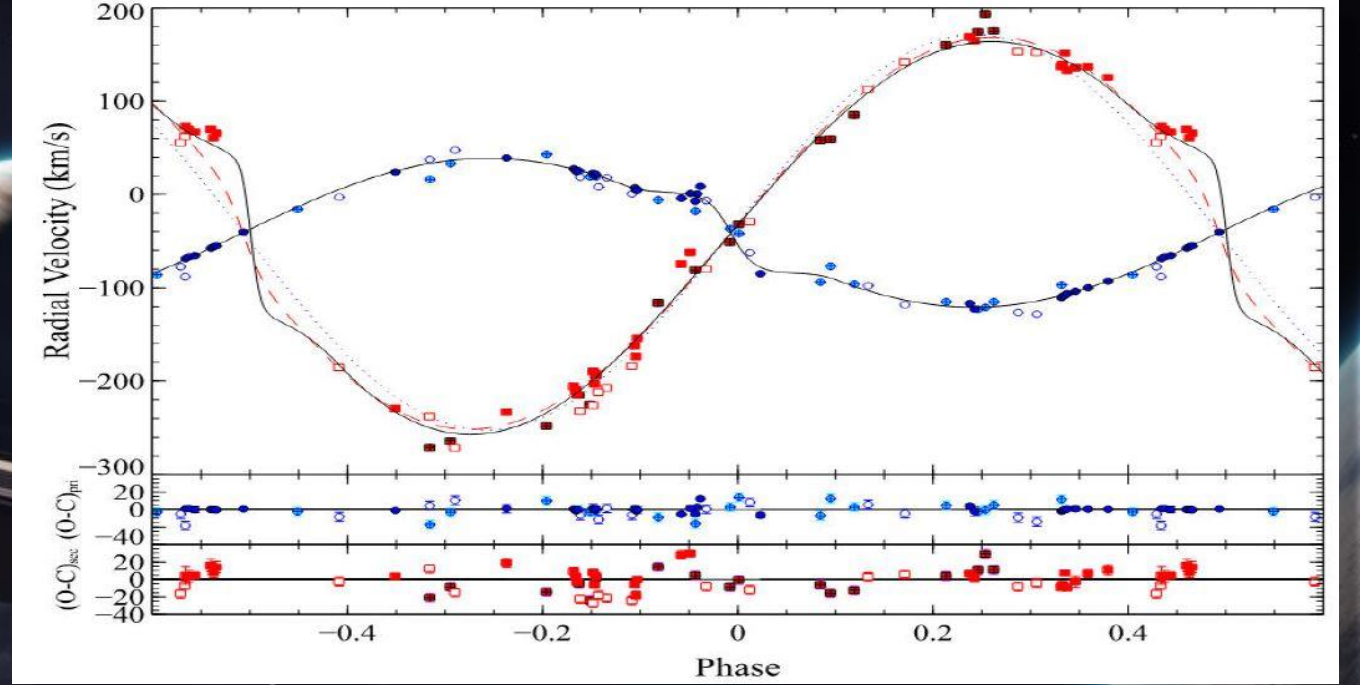
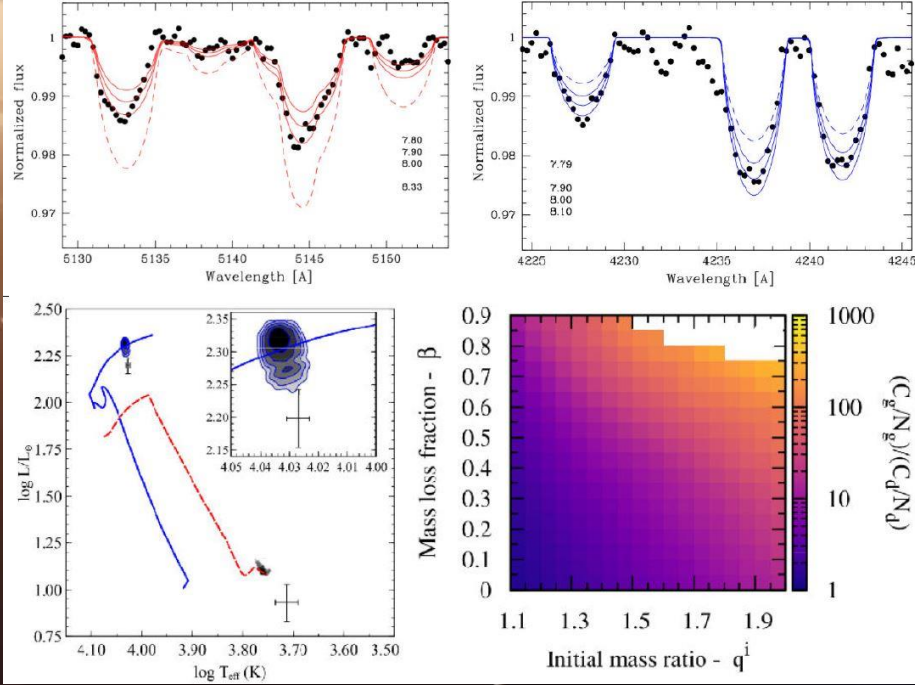
Proje Türü : Ulusal – TÜBİTAK – 119F012

Yürütücü : Prof. Dr. Hicran BAKIŞ



TÜBİTAK

Uzay Bilimleri ve Teknolojileri Bölümü



Proje Adı : Yarı-Ayrık Algollerin Evrim Durumları

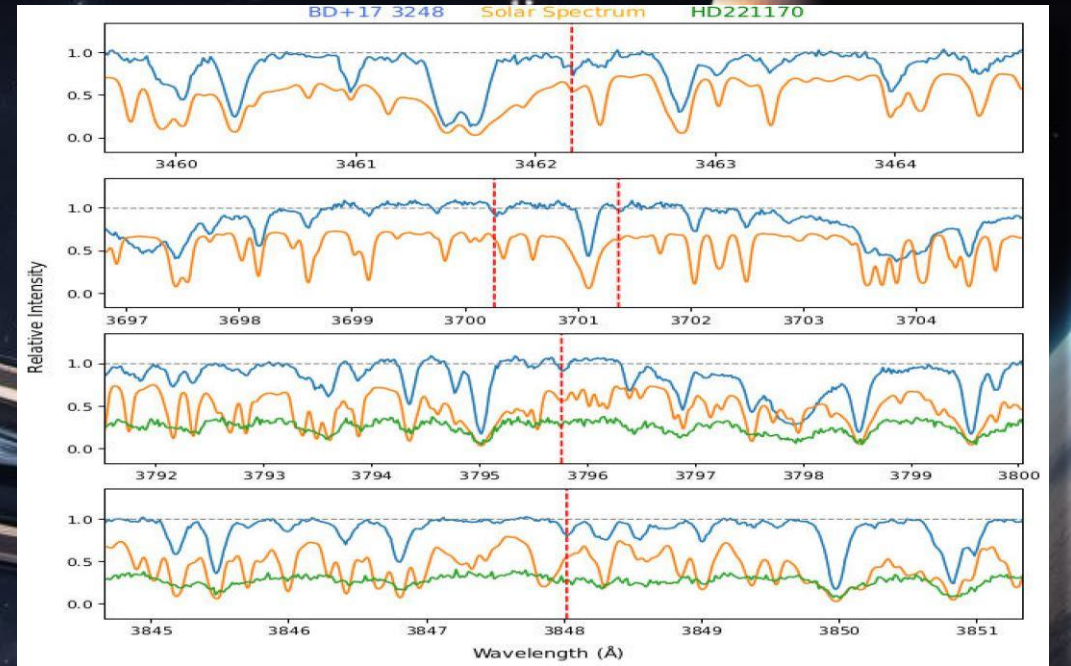
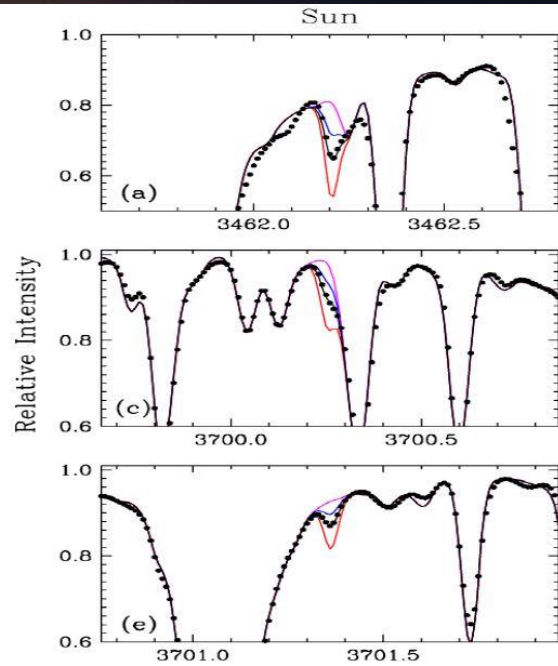
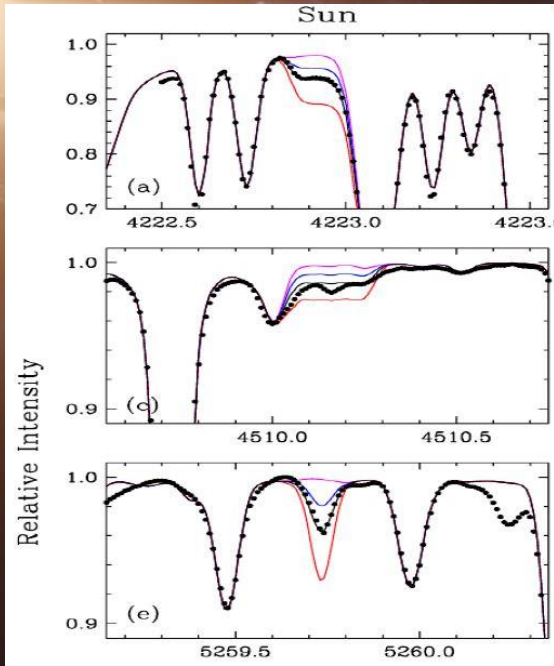
Proje Türü : Ulusal – TÜBİTAK – 123F111

Araştırmacı : Prof. Dr. Timur ŞAHİN



TÜBİTAK

Uzay Bilimleri ve Teknolojileri Bölümü



Proje Adı : Seçilmiş Nadir Toprak Elementlerinin Geçiş Olasılıklarının Hesabı: Metalce Fakir Yıldız Tayflarında Sınanması

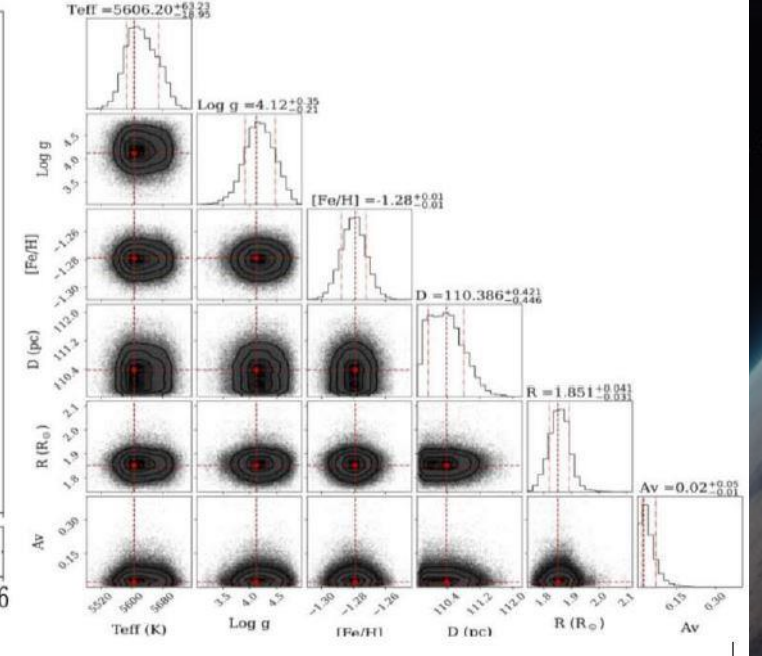
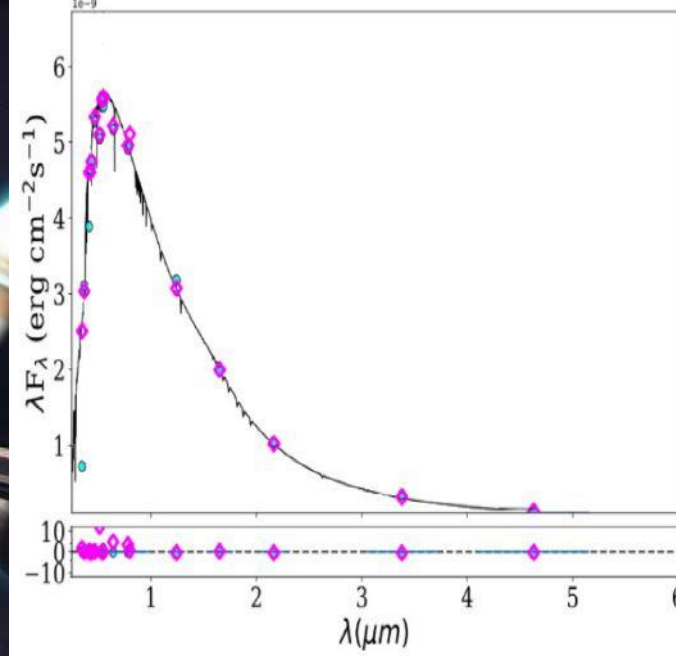
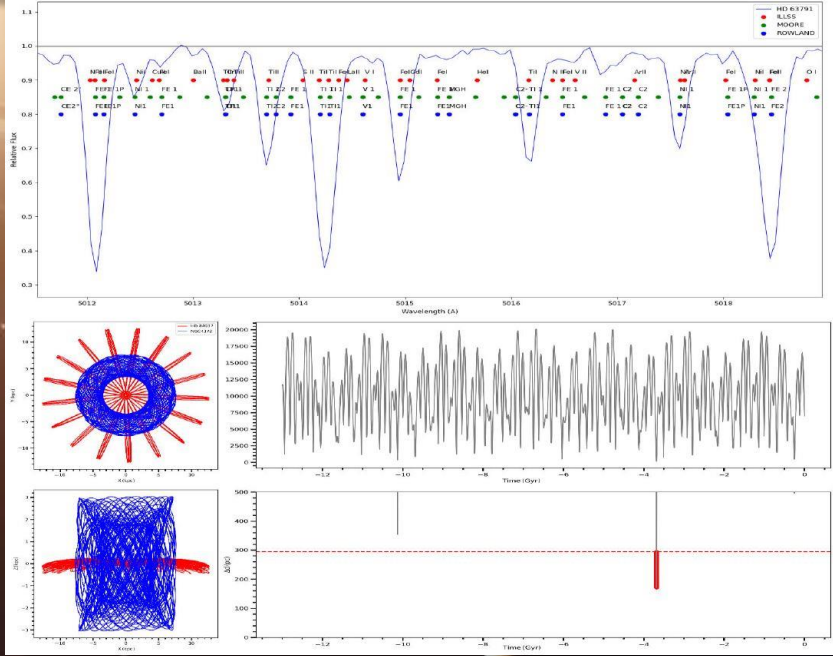
Proje Türü : Ulusal – TÜBİTAK – 122F415

Danışman : Prof. Dr. Timur ŞAHİN



TÜBİTAK

Uzay Bilimleri ve Teknolojileri Bölümü



Proje Adı : Güneş Civarındaki Orta Tayf Türündeki Metalce Fakir Yıldızların Kökeni

Proje Türü : Ulusal – TÜBİTAK – 121F265

Yürütücü : Prof. Dr. Timur ŞAHİN



TÜBİTAK

Uzay Bilimleri ve Teknolojileri Bölümü



Proje Adı : Capacity Building in Earth Observation Education for Digital Economy Adaptation in Jordan and Algeria

Proje Türü : Uluslararası – ERASMUS

Yürütücü : Doç. Dr. Nusret DEMİR



Funded by the
Erasmus+ Programme
of the European Union

Uzay Bilimleri ve Teknolojileri Bölümü



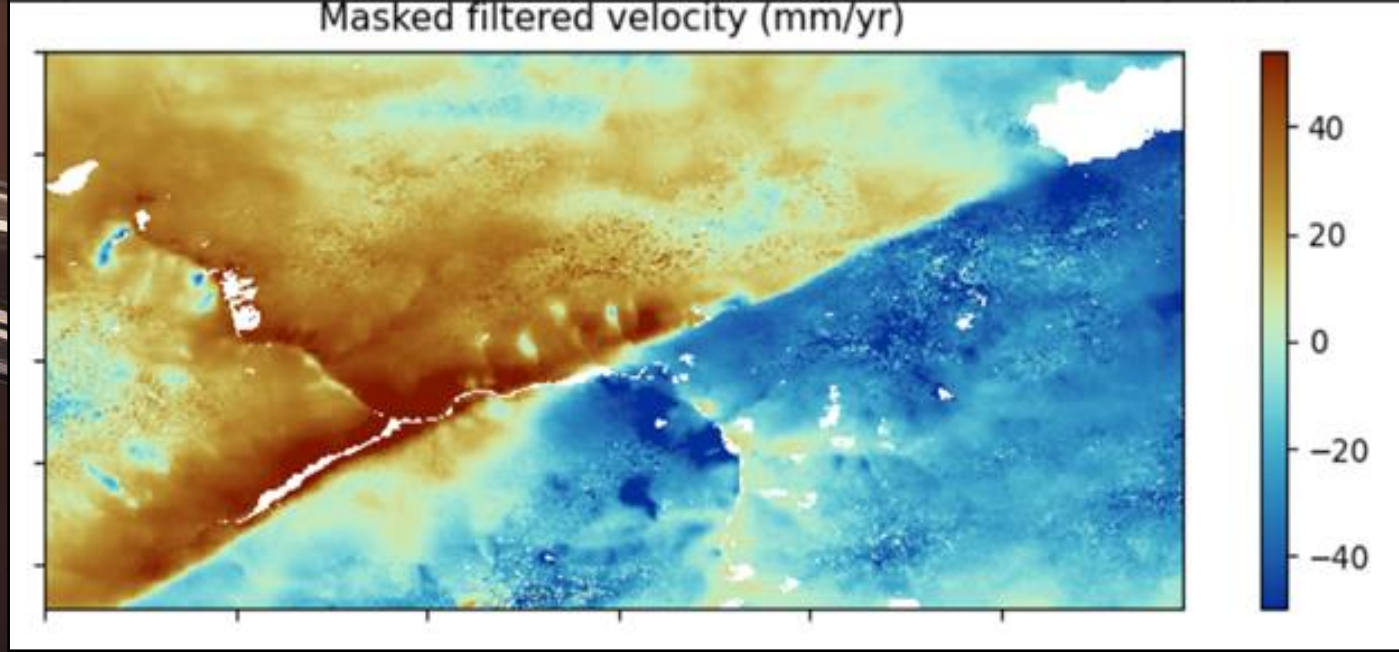
Proje Adı : Collaborative Analysis of Flooding Events with Processing of Earth Observation Datasets

Proje Türü : Uluslararası – ISPRS

Yürütücü : Doç. Dr. Nusret DEMİR



Uzay Bilimleri ve Teknolojileri Bölümü



Proje Adı : Radar Uzaktan Algılama ile Elazığ Sivrice Bölgesinin Yüzey Deformasyonunun Zamansal Olarak İzlenmesi

Proje Türü : Ulusal – AFAD

Yürütücü : Doç. Dr. Nusret DEMİR

İTÜ



AFAD

Uzay Bilimleri ve Teknolojileri Bölümü



Results	
Ruins	99.1 %
Flagstone	77.7 %
Building	61.1 %
Architecture	61.1 %

Proje Adı : Antalya Bölgesi Kültürel Mirasa Ait Fotoğrafların Çevrimiçi Kaynaklardan Otomatik Elde Edilmesi (Attalos)

Proje Türü : Ulusal – AKMED

Yürütücü : Doç. Dr. Nusret DEMİR



AKMED

KOÇ ÜNİVERSİTESİ

Suna & İnan Kiraç

Akdeniz Medeniyetleri

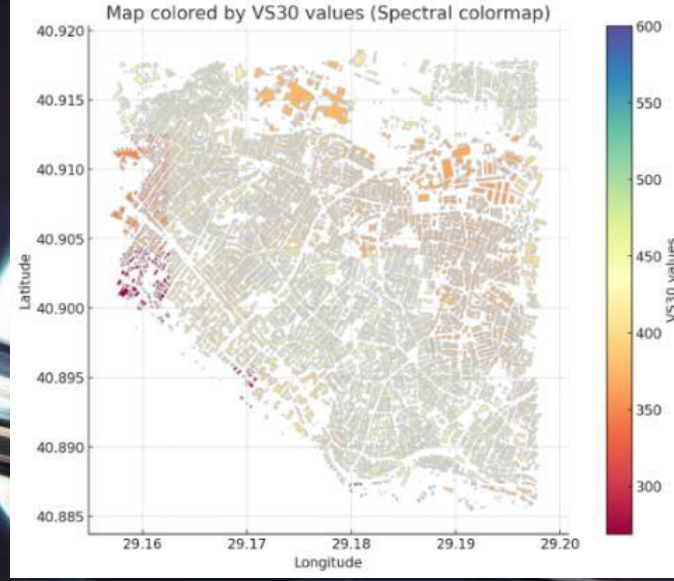
Araştırma Merkezi

25 yıl



ANTALYA
BÜYÜKŞEHİR
BELEDİYESİ

Uzay Bilimleri ve Teknolojileri Bölümü



Proje Adı : Bina Stoklarının Risk Yönetiminde Deprem ve İklimsel Etkileri Kapsayan Uydu ve Yerleşik Sensör Verilerinden Faydalanan Bütüncül Bir Yaklaşım

Proje Türü : Ulusal – TÜBİTAK

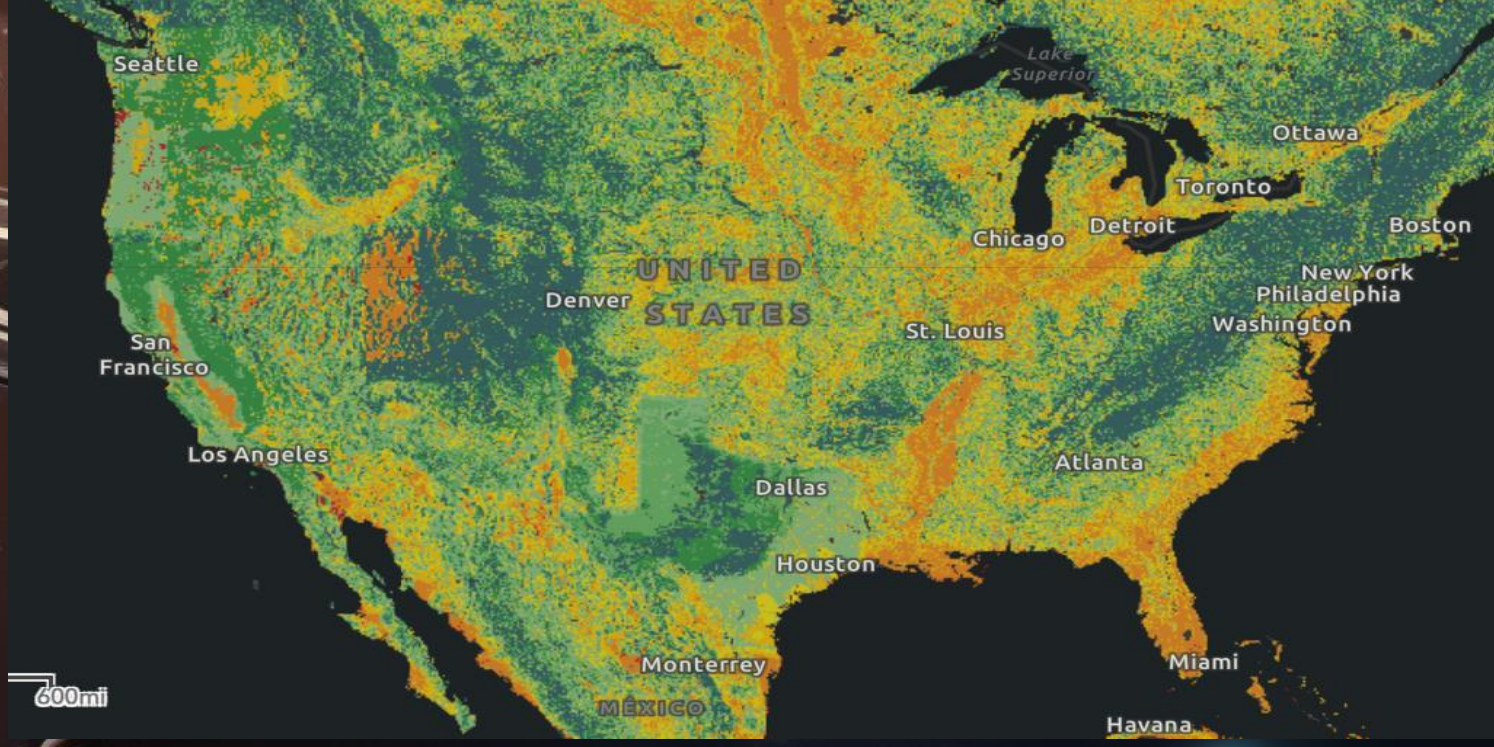
Araştırmacı: Doç. Dr. Nusret DEMİR

İTÜ



TÜBİTAK

Uzay Bilimleri ve Teknolojileri Bölümü



Proje Adı : ABD'de Deprem Risklerinin Araştırılması

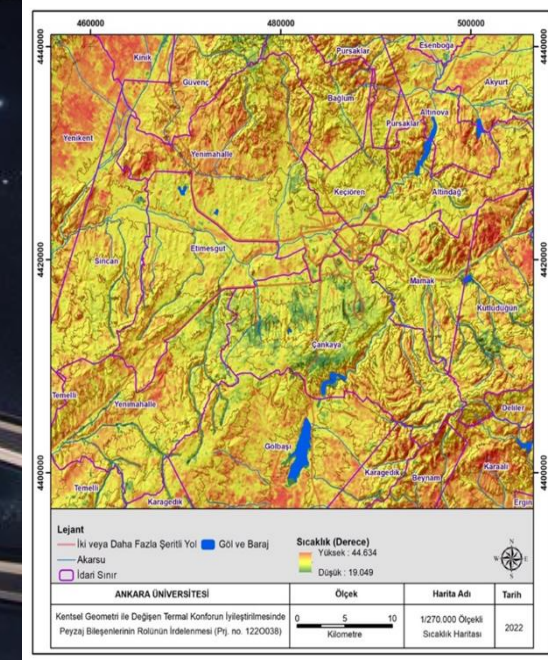
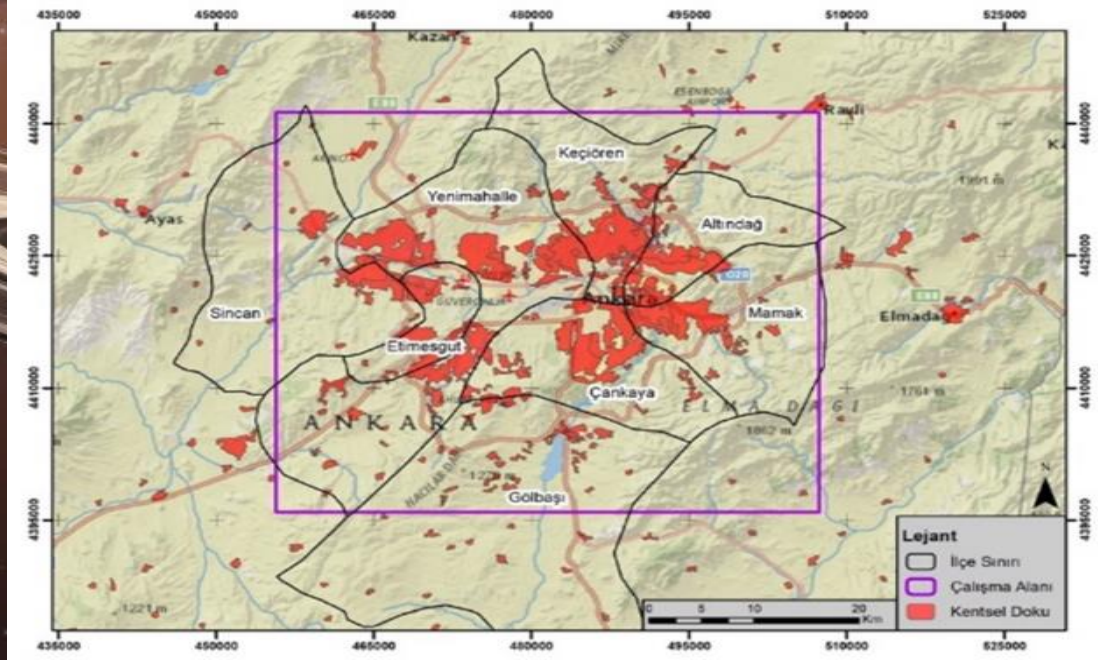
Proje Türü : Uluslararası – TEMBLOR

Danışman : Doç. Dr. Nusret DEMİR



temblor®

Uzay Bilimleri ve Teknolojileri Bölümü



Proje Adı : Kentsel Geometri ile Değişen Termal Konforun İyileştirilmesinde Peyzaj Bileşenlerinin Rolünün İrdelenmesi

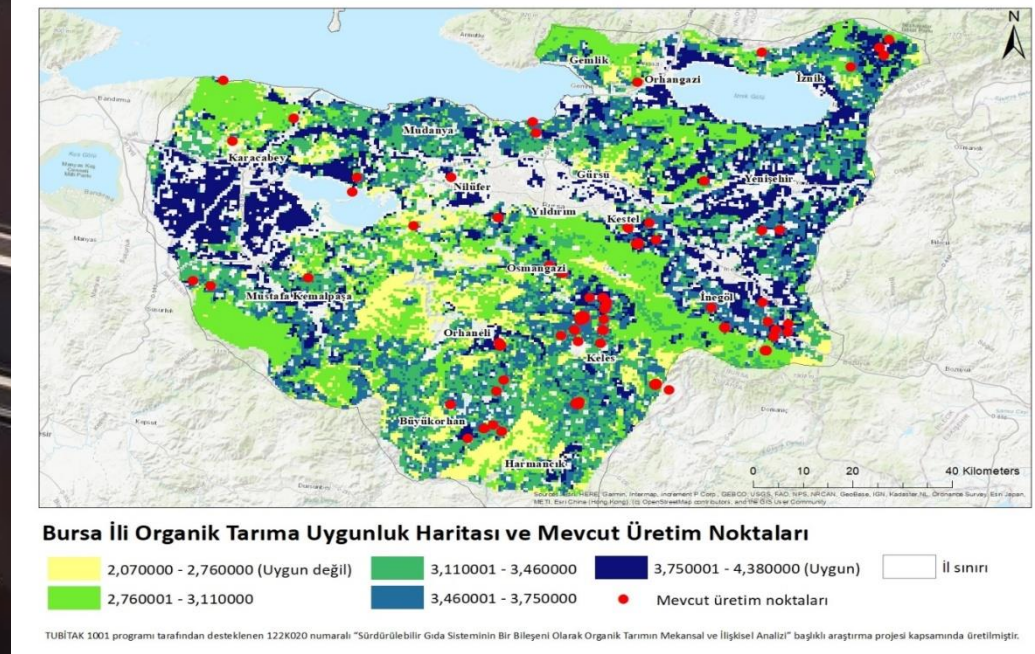
Proje Türü : Ulusal – TÜBİTAK – 122K020

Araştırmacı : Doç. Dr. Çağdaş KUŞÇU ŞİMŞEK



TÜBİTAK

Uzay Bilimleri ve Teknolojileri Bölümü



Proje Adı : Sürdürülebilir Gıda Sisteminin Bir Bileşeni Olarak Organik Tarım Mekansal ve İlişkisel Analizi

Proje Türü : Ulusal – TÜBİTAK – 122O038

Araştırmacı : Doç. Dr. Çağdaş KUŞÇU ŞİMŞEK



TÜBİTAK

KURUM DIŐI HİZMETLER

Uzay Bilimleri ve Teknolojileri Bölümü

New national coordinators

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FINLAND	<u>Ilja Honkonen</u>	Finnish Meteorological Institute, Earth Observation	Ilja.Honkonen@fmi.fi
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PERU	<u>Walter Guevara Day</u>	University of San Marcos: National Commission for Aerospace Research and Development (CONIDA)	wguevarad@unmsm.edu.pe wrgday@gmail.com
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International Space Weather Initiative
Türkiye Ulusal Koordinatörü
Prof. Dr. Ali KILÇIK



Uzay Bilimleri ve Teknolojileri Bölümü



19. Türkiye Harita Bilimsel ve Teknik Kurultayı
Yürütme Kurulu Başkanı
Doç. Dr. Nusret DEMİR



Uzay Bilimleri ve Teknolojileri Bölümü



Türkiye Mühendis ve Mimar Odaları Birliği Kent Sempozyumu

Davetli konuşmacı

Doç. Dr. Nusret DEMİR

Antalya Yüzey Yer Değiştirmelerinin Uydu Teknolojileriyle İzlenmesi

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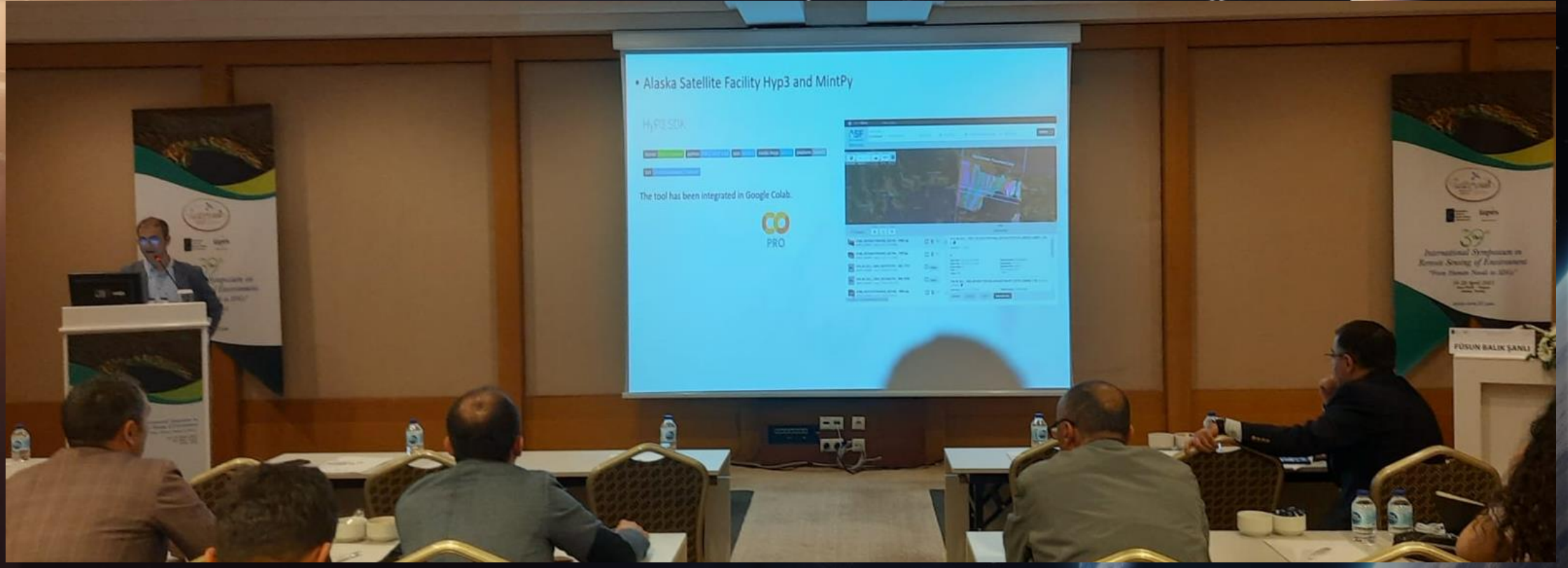
Uzay Bilimleri ve Teknolojileri Bölümü



TMMOB CBS Günü Etkinliği Davetli konuşmacı Doç. Dr. Nusret DEMİR

Doğa Kaynaklı Afetlerde Mekansal Veri, Antalya'ya Bakış

Uzay Bilimleri ve Teknolojileri Bölümü



T39th International Symposium on Remote Sensing of Environment

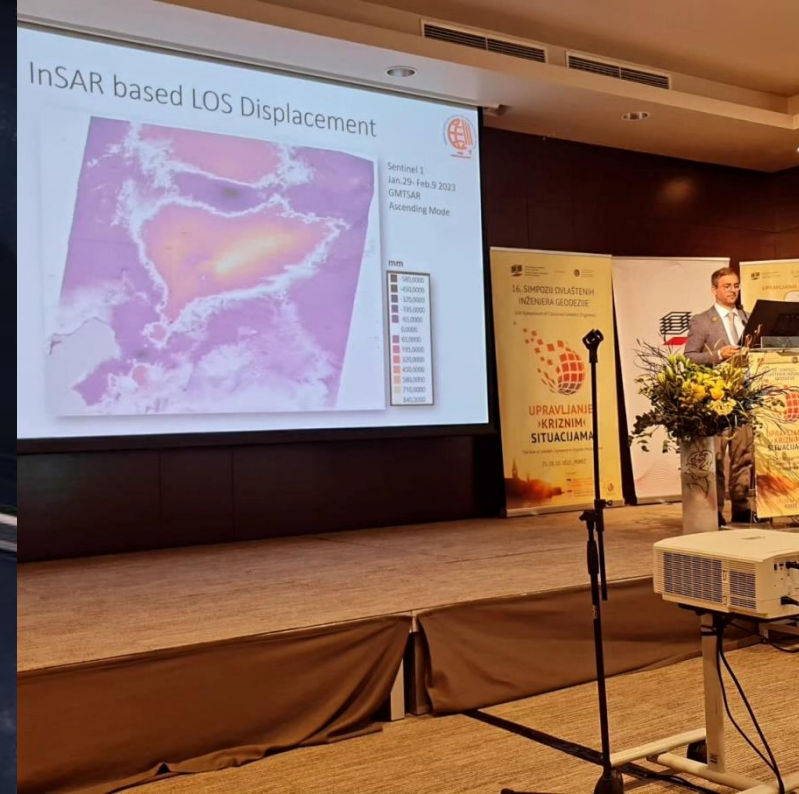
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Türkiye 2023 Earthquakes Damage Assesment



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The Croatian Geodetic Symposium

Davetli konuşmacı

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