

Assoc. Prof. SİNAN KAAAN YERLİ

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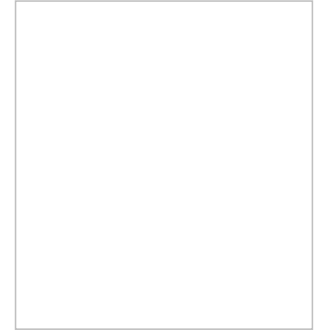
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## Biography

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Physicist; Astrophysicist

PI of DAG-ODA-ODTÜ; Active member of DAG

Member of [TAD](#) (Turkish Astronomical Society), EAS, IAU

## Education Information

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- Doctorate, University of Sussex, Astronomy Centre, United Kingdom 1994 - 1999
- Post Graduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1989 - 1993
- Under Graduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1983 - 1989

## Foreign Languages

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- English, C1 Advanced

## Dissertations

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- Doctorate, An observational study of Algol-type Binaries, University of Sussex, Astronomy Centre, 1999
- Post Graduate, Measurements and test of METU observatory site, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1993

## Research Areas

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Soft Computing, Astronomy and Astrophysics: Instrumentation Techniques and Observations, Star Systems, Interstellar Medium, The Galaxy, Galactic and Extragalactic Objects and Systems, Cosmology, Stars

## Academic Titles / Tasks

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- Associate Professor, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 2013 - Continues

- Assistant Professor, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 2002 - 2013
- Lecturer PhD, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 2000 - 2002
- Research Assistant PhD, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 1998 - 2000
- Research Assistant, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 1989 - 1993

## Professional Experience

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- Deputy Head of Department, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2017 - Continues
- Advisor to Department Head, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2015 - 2017

## Advising Theses

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- YERLİ S. K. , DEVELOPMENT OF PASSIVE MMW IMAGING SYSTEM FOR CONCEALED WEAPON DETECTION, Doctorate, A.ÜNAL(Student), 2018
- YERLİ S. K. , SWIR objective design using Seidel aberration theory, Post Graduate, S.HASAN(Student), 2016
- YERLİ S. K. , Free electron density distribution of the milky way, Post Graduate, N.UZUN(Student), 2012
- YERLİ S. K. , Determining the asymmetry in supernova explosions by studying the radial velocities of ob runaway stars, Post Graduate, B.DİNÇEL(Student), 2012

## Designed Lessons

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- Yerli S. K. , INTRODUCTORY ASTONOMY, Under Graduate, 2019 - 2020
- Yerli S. K. , Toffoli H., BASICS OF SCIENTIFIC COMPUTATION, Under Graduate, 2015 - 2016

## Research Infrastructure Information

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- Yerli S. K. , EASTERN ANATOLIA OBSERVATORY, October 2021
- Yerli S. K. , EASTERN ANATOLIA OBSERVATORY - ASTRONOMICAL OPTICS LABORATORY, December 2019

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

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- **Global Site Selection for Astronomy**  
AKSAKER N., YERLİ S. K. , Erdogan M. A. , Kurt Z., Kaba K., Bayazit M., YEŞİLYAPRAK C.  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.493, pp.1204-1216, 2020 (Journal Indexed in SCI)
- **Astronomical site selection for Turkey using GIS techniques**  
AKSAKER N., YERLİ S. K. , ERDOĞAN M. A. , Erdi E., Kaba K., Ak T., Aslan Z., BAKIŞ V., DEMİRCAN O., Evren S., et al.  
EXPERIMENTAL ASTRONOMY, vol.39, pp.547-566, 2015 (Journal Indexed in SCI)
- **Discovery of an OB runaway star inside SNR S147**  
Dincel B., Neuhaeuser R., YERLİ S. K. , ANKAYA A., Tetzlaff N., Torres G., Mugrauer M.

MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.448, pp.3196-3205, 2015 (Journal Indexed in SCI)

- **Emission-Line Fluxes of Northern Planetary Nebulae**

AKSAKER N., YERLİ S. K. , KIZILOĞLU Ü., ATALAY B.

PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF AUSTRALIA, vol.32, 2015 (Journal Indexed in SCI)

- **A Study on W Ursae Majoris-Type Systems Recognised by the ROTSE-IIIrd Experiment**

Coker D., ÖZDEMİR S., YEŞİLYAPRAK C., YERLİ S. K. , AKSAKER N., GUCSAV B. B.

PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF AUSTRALIA, vol.30, 2013 (Journal Indexed in SCI)

- **Long-term variations and periods of Mira stars from ROTSE-IIIrd**

YEŞİLYAPRAK C., YERLİ S. K. , GUCSAV B. B. , AKSAKER N., DIKICIOĞLU E., HELVACI M., COKER D., AYDIN M. E. , DİNCEL B., UZUN N.

NEW ASTRONOMY, vol.17, pp.504-513, 2012 (Journal Indexed in SCI)

- **A pipeline for the ROTSE-IIIrd archival data**

GUCSAV B. B. , YEŞİLYAPRAK C., YERLİ S. K. , AKSAKER N., KIZILOĞLU Ü., COKER D., DIKICIOĞLU E., AYDIN M. E.

EXPERIMENTAL ASTRONOMY, vol.33, pp.197-209, 2012 (Journal Indexed in SCI)

- **Optical variabilities in the Be/X-ray binary system - GRO J2058+42 (CXOU J205847.5+414637)**

KIZILOĞLU Ü., KIZILOĞLU N., BAYKAL A., YERLİ S. K. , ÖZBEY M.

ASTRONOMY & ASTROPHYSICS, vol.470, pp.1023-1029, 2007 (Journal Indexed in SCI)

- **Distances and other parameters for 1328 radio pulsars**

GUSEINOV O. H. , YERLİ S. K. , ÖZKAN S., SEZER A., TAGIEVA S.

Astronomical & Astrophysical Transactions, vol.23, pp.357-367, 2004 (Journal Indexed in SCI Expanded)

- **A photometric-spectroscopic analysis and the evolutionary status of the Algol-type binary U Coronae Borealis**

YERLİ S., SARNA M., ZOLA S., SMITH R., TOVMASSIAN G.

MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.342, pp.1349-1360, 2003 (Journal Indexed in SCI)

- **A preliminary version of a catalog of high-low-mass X-ray binaries**

GUSEINOV O., SAYAGAC A., ALLAKHVERDIEV A., CALISKAN H., ÖZDEMİR S., YERLİ S., ANKAY A.

ASTRONOMY LETTERS-A JOURNAL OF ASTRONOMY AND SPACE ASTROPHYSICS, vol.26, pp.725-729, 2000 (Journal Indexed in SCI)

- **Resolving the radio nebula around beta Lyrae**

UMANA G., MAXTED P. F. L. , TRIGILIO C., FENDER R. P. , LEONE F., YERLİ S. K.

ASTRONOMY & ASTROPHYSICS, vol.358, pp.229-232, 2000 (Journal Indexed in SCI)

- **An observational study of Algol-type binaries**

YERLİ S. K.

OBSERVATORY, vol.119, pp.344, 1999 (Journal Indexed in SCI)

- **Magnetic activity and evolution of Algol-type stars - II**

SARNA M., YERLİ S. K. , MUSLIMOV A. G.

MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.297, pp.760-768, 1998 (Journal Indexed in SCI)

- **Magnetic activity and evolution of Algol-type stars**

SARNA M., MUSLIMOV A., YERLİ S. K.

MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.286, pp.209-214, 1997 (Journal Indexed in SCI)

## Book & Book Chapters

- **The Electromagnetic Spectrum of Neutron Stars**

Baykal A. (Editor), Yerli S. K. (Editor), İnam S. Ç. (Editor)

Springer-Verlag , Amsterdam, 2005

- **Astronomik Gözlemleri için “Gökyüzü Kalitesi Ölçüm Sistemi” (GÖKSİS)**  
AKSAKER N., YERLİ S. K. , Balbay R., BAKIŞ V., Özişik T., AK T., EVREN M. S. , KÜÇÜK İ., ÖZDEMİR T., Yelkenci K., et al.  
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017)., Adana, Turkey, 25 - 27 October 2017, pp.1799-1806
- **Emission Lines of Northern Planetary Nebulae**  
AKSAKER N., YERLİ S. K. , Kiziloglu U., Atalay B.  
323RD Symposium of the International-Astronomical-Union (IAU), Beijing, China, 10 - 14 October 2016, vol.12, pp.333-334
- **Auxiliary free space optical communication project to ensure continuous transfer of data for DAG the 4m telescope**  
KESKİN O., YEŞİLYAPRAK C., YERLİ S. K.  
Conference on Advances in Optical and Mechanical Technologies for Telescopes and Instrumentation II, Edinburgh, Saint Helena, 26 June - 01 July 2016, vol.9912
- **The design of an adaptive optics telescope : the case of DAG**  
Jolissaint L., KESKİN O., Zago L., YERLİ S. K. , YEŞİLYAPRAK C., Mudry E., Lousberg G.  
Conference on Ground-Based and Airborne Telescopes VI, Edinburgh, Saint Helena, 26 June - 01 July 2016, vol.9906
- **The DAG Project, a 4m class telescope: the telescope main structure performance**  
Marchiori G., Busatta A., Ghedin L., Marcuzzi E., Manfrin C., Battistel C., Pirnay O., Flebus C., Yesiliyaprak C., KESKİN O., et al.  
Conference on Ground-Based and Airborne Telescopes VI, Edinburgh, Saint Helena, 26 June - 01 July 2016, vol.9906
- **DAG: A New Observatory And A Prospective Observing Site For Other Potential Telescopes**  
YEŞİLYAPRAK C., YERLİ S. K. , KESKİN O., Gucsav B. B.  
Conference on Observatory Operations - Strategies, Processes, and Systems VI, Edinburgh, Saint Helena, 27 June - 01 July 2016, vol.9910
- **DAG telescope site studies and infrastructure for possible international co-operations**  
YERLİ S. K. , YEŞİLYAPRAK C., KESKİN O., Alis S.  
Conference on Observatory Operations - Strategies, Processes, and Systems VI, Edinburgh, Saint Helena, 27 June - 01 July 2016, vol.9910
- **Status of the Focal Plane Instrumentation (FPI) Project of the 4 m DAG Telescope**  
KESKİN O., YERLİ S. K. , YEŞİLYAPRAK C., Guver T., Alis S., Yelkenci F. K. , Gucsav B. B. , ÖZBEY ARABACI M., Erol A.  
Conference on Ground-Based and Airborne Instrumentation for Astronomy VI, Edinburgh, Saint Helena, 26 - 30 June 2016, vol.9908
- **Design of a derotator for the 4 in DAG telescope**  
Baudet J., Jolissaint L., KESKİN O., YEŞİLYAPRAK C., YERLİ S. K.  
Conference on Ground-Based and Airborne Instrumentation for Astronomy VI, Edinburgh, Saint Helena, 26 - 30 June 2016, vol.9908
- **Agile development approach for the observatory control software of the DAG 4m telescope**  
Gucsav B. B. , Coker D., YEŞİLYAPRAK C., KESKİN O., Zago L., YERLİ S. K.  
Conference on Software and Cyberinfrastructure for Astronomy IV, Edinburgh, Saint Helena, 26 - 30 June 2016, vol.9913
- **A Microwave Kinetic Inductance Detector for the DAG Telescope**  
GÜVER T., Mazin B. A. , O'Brien K., Kay B., Alis S., Yelkenci F. K. , YEŞİLYAPRAK C., YERLİ S. K. , Erol A., KESKİN O.  
Conference on High Energy, Optical, and Infrared Detectors for Astronomy VII, Edinburgh, Saint Helena, 26 - 29 June 2016, vol.9915
- **Integrated opto-dynamic modeling of the 4-m DAG telescope image quality performance**  
Zago L., Guex B., YEŞİLYAPRAK C., YERLİ S. K. , KESKİN O.

Conference on Modeling, Systems Engineering, and Project Management for Astronomy VII, Edinburgh, Saint Helena, 26 - 28 June 2016, vol.9911

- **Project Management of DAG: Eastern Anatolia Observatory**

KESKİN O., YEŞİLYAPRAK C., YERLİ S. K. , Zago L., Guver T., Alis S.

Conference on Modeling, Systems Engineering, and Project Management for Astronomy VII, Edinburgh, Saint Helena, 26 - 28 June 2016, vol.9911

- **Observatory building design: a case study of DAG with infrastructure and facilities**

Sahmali A. E. , YEŞİLYAPRAK C., YERLİ S. K. , KESKİN O.

Conference on Modeling, Systems Engineering, and Project Management for Astronomy VII, Edinburgh, Saint Helena, 26 - 28 June 2016, vol.9911

- **EASTERN ANATOLIA OBSERVATORY (DAG): RECENT DEVELOPMENTS AND A PROSPECTIVE OBSERVING SITE FOR ROBOTIC TELESCOPES**

YEŞİLYAPRAK C., YERLİ S. K. , KESKİN O.

4th Workshop on Robotic Autonomous Observatories, Torremolinos, Spain, 28 September - 02 October 2015, vol.48, pp.120-122

- **DAG Telescope: A New Potential for MOS Observations**

ALİŞ S., YEŞİLYAPRAK C., YERLİ S. K.

Conference on Multi-Object Spectroscopy in the Next Decade: Big Questions, Large Surveys, and Wide Fields, Santa Cruz de la Palma, Spain, 2 - 06 March 2015, vol.507, pp.439-442

- **Turkey s next big science project DAG the 4 meter telescope**

KESKİN O., YEŞİLYAPRAK C., YERLİ S. K. , ZAGO L., JOLISSANT L.

Proc. SPIE 9145, Ground-based and Airborne Telescopes V, Montréal, Quebec, Canada, 22 - 27 June 2014, vol.9145, pp.47

- **ATA50 TELESCOPE: HARDWARE**

YEŞİLYAPRAK C., YERLİ S. K. , AKSAKER N., Yıldiran Y., GÜNEY Y., Guçsav B. B. , ÖZEREN F. F. , KILIÇ Y., Shameoni M. N. , Fisek S., et al.

3rd Workshop on Robotic Autonomous Observatories, Torremolinos, Spain, 7 - 11 October 2013, vol.45, pp.28-29

## Supported Projects

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- Yerli S. K. , CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Doğu Anadolu Gözlemevi Odak Düzlemi Aygıtlar ve Adaptif Optik Sistemi, 2016 - 2020
- Yerli S. K. , TUBITAK Project, Meteoroloji Destekli Astronomik Görüş Ölçümü için Otomatik İstasyon Tasarımı ve Prototip Yapımı, 2014 - 2017
- Yerli S. K. , TUBITAK Project, Galaksideki Pulsarlar Ve Yıldız Oluşum Bölgelerinin SFR Dağılımını Güncelleyerek SFR Lerin Galaksi Düzlemine Göre Asimetrisinin İlk Kez Belirlenmesi, 2010 - 2013
- Yerli S. K. , Yeşilyaprak C., Kızıoğlu Ü., TUBITAK Project, TÜBİTAK Ulusal Gözlemevi Verileri Kullanılarak Uzun ve Kısa Dönemli Farklı Türden Değişen Yıldızların Belirlenmesi ve Fotometrik İncelemeleri, 2008 - 2011
- Yerli S. K. , Kızıoğlu Ü., TUBITAK Project, Bileşenlerinden biri sıkı cisim olan sistemlerdeki disk yapılarının incelenmesi, 2006 - 2009

## Memberships / Tasks in Scientific Organizations

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- TURKISH ASTRONOMICAL SOCIETY, Vice President, 2018 - Continues
- EUROPEAN ASTRONOMICAL SOCIETY, Member, 2016 - Continues
- INTERNATIONAL ASTRONOMICAL UNION, Member, 2015 - Continues
- TURKISH ASTRONOMICAL SOCIETY, Member, 1988 - Continues
- TURKISH ASTRONOMICAL SOCIETY, Board Member, 2002 - 2006
- TURKISH ASTRONOMICAL SOCIETY, Board Member, 1998 - 2002

## Tasks In Event Organizations

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- Yerli S. K. , 21. Ulusal Astronomi Kongresi, Scientific Congress, Kayseri, Turkey, Haziran 2018
- Yerli S. K. , Yeşilyaprak C., 20. Uulusal Astronomi Kongresi, Scientific Congress, Erzurum, Turkey, Eylül 2016
- Yerli S. K. , 19. National Astronomy Meeting, Scientific Congress, Ankara, Turkey, Şubat 2015

## Citations

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- Total Citations (WOS): 100
- h-index (WOS): 6

## Scholarships

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- SCHOLARSHIP OF HIGHER EDUCATION COUNCIL, YOK, 1994 - 1998