

Assoc. Prof. SEVİNÇ FİGEN ÖKTEM

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International Researcher IDs

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Publons / Web Of Science ResearcherID: A-9569-2018

ScopusID: 35103071500

Yoksis Researcher ID: 223888

Biography

I am an Associate Professor of Electrical and Electronics Engineering at METU, and the principal investigator of the Signal Processing And Computational sEnsing (SPACE) Lab. Before joining METU, I was a Post-Doctoral Research Associate with the NASA Goddard Space Flight Center, where I worked on the development of novel spectral imaging techniques for high-resolution solar imaging.

I received the Ph.D. degree from the University of Illinois at Urbana-Champaign (UIUC) in 2014, and the B.S. and M.S. degrees from Bilkent University, in 2007 and 2009, respectively. At UIUC, I was selected to the "List of Teachers Ranked as Excellent by Their Students", and was a recipient of the Professor Kung Chie Yeh Endowed Fellowship in 2012, and a NASA Earth and Space Science Fellowship from 2012 to 2014.

Education Information

Doctorate, University of Illinois at Urbana-Champaign, Mühendislik Fakültesi, Electrical and Computer Engineering, United States Of America 2009 - 2014

Postgraduate, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Elektrik Ve Elektronik Mühendisliği (YI) (Tezli), Turkey 2007 - 2009

Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2003 - 2007

Dissertations

Postgraduate, Signal representation and recovery under partial information, redundancy, and generalized finite extent constraints, Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, Elektrik Ve Elektronik Mühendisliği (YI) (Tezli), 2009

Doctorate, Computational imaging and inverse techniques for high-resolution and instantaneous spectral imaging, University Of Illinois At Urbana-Champaign, 2009

Research Areas

Electrical and Electronics Engineering

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 2021 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 2018 - 2021

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 2015 - 2018

Research Assistant PhD, Heliophysics Division, 2014 - 2014

Research Assistant, University of Illinois at Urbana-Champaign, Mühendislik Fakültesi, Elektrik ve Bilgisayar Mühendisliği, 2009 - 2014

Research Assistant, Heliophysics Science Division, 2012 - 2012

Research Assistant, İhsan Doğramacı Bilkent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2007 - 2009

Researcher, 2006 - 2006

Courses

Theory of Remote Image Formation, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016

Probability and Random Variables, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Digital Image Processing, Postgraduate, 2021 - 2022, 2020 - 2021

Vector Space Methods in Signal Processing, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Statistical Signal Processing and Modeling, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

Signals and Systems I, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Advising Theses

ÖKTEM S. F., Deep learning-based reconstruction methods for near-field mimo radar imaging, Postgraduate, İ.MANİSALI(Student), 2022

Öktem S. F., Compressive spectral imaging using diffractive lenses and multi-spectral sensors with learned reconstruction and joint optimization, Postgraduate, U.GÜNDOĞAN(Student), 2022

Öktem S. F., Koç S. S., Sparse reconstruction for near-field MIMO radar imaging problems using fast multipole methods, Doctorate, E.ALP(Student), 2022

Öktem S. F., Deep learning-based unrolled reconstruction methods for computational imaging, Postgraduate, C.DENİZ(Student), 2021

Öktem S. F., Evaluation of classical and sparsity-based methods for parametric recovery problems, Postgraduate, H.CAN(Student), 2020

Öktem S. F., Efficient algorithms for convolutional inverse problems in multidimensional imaging, Postgraduate, D.DOĞAN(Student), 2020

Öktem S. F., Development of novel analysis and reconstruction techniques for coherent optical imaging systems, Postgraduate, Ç.İŞİL(Student), 2019

Öktem S. F., Computational spectral imaging techniques using diffractive lenses and compressive sensing, Postgraduate,

O.FATİH(Student), 2019

ÖKTEM S. F., Optimal design of sparse mimo arrays for wideband near-field imaging based on a statistical framework, Postgraduate, M.BURAK(Student), 2018

ÖKTEM S. F., Numerical and experimental evaluation of computational spectral imaging with photon sieves, Postgraduate, T.ALKANAT(Student), 2016

Designed Lessons

Öktem S. F., Vector Space Methods in Signal Processing, Undergraduate, 2018 - 2019

Öktem S. F., Theory of Remote Image Formation, Postgraduate, 2015 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Enhanced Near-Field Microwave Imaging System with Polarization Diversity**
Dalkilic A., ÖKTEM S. F., ALATAN L.
IEEE Antennas and Wireless Propagation Letters, vol.23, no.3, pp.1085-1089, 2024 (SCI-Expanded)
- II. **Plug-and-Play Regularization on Magnitude with Deep Priors for 3D Near-Field MIMO Imaging**
ORAL O., ÖKTEM S. F.
IEEE Transactions on Computational Imaging, vol.10, pp.762-773, 2024 (SCI-Expanded)
- III. **Efficient physics-based learned reconstruction methods for real-time 3D near-field MIMO radar imaging**
Manisali I., ORAL O., ÖKTEM S. F.
Digital Signal Processing: A Review Journal, vol.144, 2024 (SCI-Expanded)
- IV. **Computational optical sensing and imaging 2021: feature issue introduction**
Ke J., Alieva T., Öktem S. F., Silveira P. E., Wetzstein G., Willomitzer F.
Optics Express, vol.30, no.7, pp.11394-11399, 2022 (SCI-Expanded)
- V. **Computational Optical Sensing and Imaging 2021: introduction to the feature issue**
Ke J., Alieva T., Öktem S. F., Silveira P. E. X., Wetzstein G., Willomitzer F.
Applied Optics, vol.61, no.9, 2022 (SCI-Expanded)
- VI. **High-Resolution Multi-Spectral Imaging With Diffractive Lenses and Learned Reconstruction**
Öktem S. F., Kar O. F., Bezek C. D., Kamalabadi F.
IEEE TRANSACTIONS ON COMPUTATIONAL IMAGING, vol.7, pp.489-504, 2021 (SCI-Expanded)
- VII. **Sparse Reconstruction for Near-Field MIMO Radar Imaging Using Fast Multipole Method**
Miran E. A., ÖKTEM S. F., Koc S.
IEEE ACCESS, vol.9, pp.151578-151589, 2021 (SCI-Expanded)
- VIII. **Efficient computation of 2D point-spread functions for diffractive lenses**
Ayazgok S., Oktem F. S.
APPLIED OPTICS, vol.59, no.2, pp.445-451, 2020 (SCI-Expanded)
- IX. **Image Chain Simulation for Earth Observation Satellites**
Alici K. B., Oktem F. S., Karci O., Yilmaz A. S., Selimoglu O.
IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, vol.12, no.10, pp.4014-4023, 2019 (SCI-Expanded)
- X. **Slitless Solar Imaging Spectroscopy**
Davila J. M., Oktem F. S., Kamalabadi F.
ASTROPHYSICAL JOURNAL, vol.883, no.1, 2019 (SCI-Expanded)
- XI. **Compressive spectral imaging with diffractive lenses**
Kar O. F., Oktem F. S.
OPTICS LETTERS, vol.44, no.18, pp.4582-4585, 2019 (SCI-Expanded)
- XII. **Deep iterative reconstruction for phase retrieval**

- Isil C., Oktem F. S., Koc A.
 APPLIED OPTICS, vol.58, no.20, pp.5422-5431, 2019 (SCI-Expanded)
- XIII. **Sparsity-based three-dimensional image reconstruction for near-field MIMO radar imaging**
 Oktem F. S.
 TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.5, pp.3282-3295, 2019
 (SCI-Expanded)
- XIV. **Analytical Fresnel imaging models for photon sieves**
 ÖKTEM S. F., Kamalabadi F., Davila J. M.
 OPTICS EXPRESS, vol.26, no.24, pp.32259-32279, 2018 (SCI-Expanded)
- XV. **Periodic aperture imaging**
 Alici K. B., Buyuk H., Yilmaz A. S., Ozdemir C., Karci O., Oktem F. S., Selimoglu O.
 OPTICAL ENGINEERING, vol.56, no.5, 2017 (SCI-Expanded)
- XVI. **Effect of spatial distribution of partial information on the accurate recovery of optical wave fields**
 ÖKTEM S. F., Ozaktas H. M.
 APPLIED OPTICS, vol.56, no.1, 2017 (SCI-Expanded)
- XVII. **A Parametric Estimation Approach to Instantaneous Spectral Imaging**
 Öktem S. F., Kamalabadi F., Davila J. M.
 IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.23, no.12, pp.5707-5721, 2014 (SCI-Expanded)
- XVIII. **Phase-space window and degrees of freedom of optical systems with multiple apertures**
 Ozaktas H. M., Oktem F. S.
 JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION, vol.30, pp.682-690, 2013
 (SCI-Expanded)
- XIX. **Equivalence of linear canonical transform domains to fractional Fourier domains and the bicanonical width product: a generalization of the space-bandwidth product**
 Oktem F. S., Ozaktas H. M.
 JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION, vol.27, pp.1885-1895,
 2010 (SCI-Expanded)
- XX. **Exact Relation Between Continuous and Discrete Linear Canonical Transforms**
 Öktem S. F., Özaktaş M. H.
 IEEE SIGNAL PROCESSING LETTERS, vol.16, no.8, pp.727-730, 2009 (SCI-Expanded)

Books & Book Chapters

- I. **Computational Spectral and Ultrafast Imaging via Convex Optimization**
 Öktem S. F., Gao L., Kamalabadi F.
 in: Handbook of Convex Optimization Methods in Imaging Science, Vishal Monga, Editor, Springer, London/Berlin ,
 Zug, pp.105-127, 2018
- II. **Fast Algorithms for Digital Computation of Linear Canonical Transforms**
 Koç A., Öktem S. F., Özaktaş M. H., Kutay A.
 in: Linear Canonical Transforms, Alper M Kutay,Haldun M Ozaktas,John J Healy,John T Sheridan, Editor, Springer-
 Verlag , New-York, pp.293-327, 2016
- III. **Linear Canonical Domains and Degrees of Freedom of Signals and Systems**
 Öktem S. F., Ozaktas H.
 in: Linear Canonical Transforms, Healy John J,Kutay M Alper,Ozaktas Haldun M,Sheridan John T, Editor, Springer,
 London/Berlin , New-York, pp.197-239, 2016

Refereed Congress / Symposium Publications in Proceedings

- I. **Plug-and-Play Reconstruction with 3D Deep Prior for Complex-Valued Near-Field MIMO Imaging**

ORAL O., ÖKTEM S. F.

31st European Signal Processing Conference, EUSIPCO 2023, Helsinki, Finland, 4 - 08 September 2023, pp.496-500

- II. **Deep learning-based reconstruction for near-field MIMO radar imaging**
Manisali I., ÖKTEM S. F.
31st European Signal Processing Conference, EUSIPCO 2023, Helsinki, Finland, 4 - 08 September 2023, pp.481-485
- III. **Deep Learning-Based Joint Reconstruction and System Optimization for Single-Shot Compressive Spectral Imaging**
Gundogan U., Öktem S. F.
Computational Optical Sensing and Imaging, COSI 2022, Vancouver, Canada, 11 - 15 July 2022
- IV. **Computational Spectral Imaging With Diffractive Lenses And Spectral Filter Arrays**
Gundogan U., ÖKTEM S. F.
2021 IEEE International Conference on Image Processing (ICIP), Anchorage, United States Of America, 19 - 22 September 2021, pp.2938-2942
- V. **Unrolling-Based Deep Reconstruction for Compressive Spectral Imaging**
BEZEK C. D., ÖKTEM S. F.
Computational Optical Sensing and Imaging 2021, Canada, 19 - 23 July 2021
- VI. **Comparison of Dictionary-Based Image Reconstruction Algorithms for Inverse Problems**
Dogan D., ÖKTEM S. F.
28th Signal Processing and Communications Applications Conference, Turkey, 5 - 07 October 2020
- VII. **Analysis of Alternative Performance Metrics for Compressive Spectral Imaging**
Gundogan U., ÖKTEM S. F.
28th Signal Processing and Communications Applications Conference, Turkey, 5 - 07 October 2020
- VIII. **Evaluation of Sparsity-based Methods for Parameterized Source Separation**
Baskaya H. C., ÖKTEM S. F.
28th Signal Processing and Communications Applications Conference, Turkey, 5 - 07 October 2020
- IX. **Deep CNN Prior Based Image Reconstruction for Multispectral Imaging**
Manisali İ., Cam R., BEZEK C. D., ÖKTEM S. F.
28th Signal Processing and Communications Applications Conference, Turkey, 5 - 07 October 2020
- X. **Model-based Phase Retrieval with Deep Denoiser Prior**
Işıl Ç., ÖKTEM S. F.
2020 OSA Imaging and Applied Optics Congress, 22 - 26 June 2020
- XI. **Model-based Inversion Methods for Compressive Spectral Imaging with Diffractive Lenses**
Dogan D., ÖKTEM S. F.
2020 OSA Imaging and Applied Optics Congress, 22 - 26 June 2020
- XII. **Computational Imaging and Inverse Problems: Making the Invisible Visible**
ÖKTEM S. F.
21. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, İstanbul, Turkey, 06 September 2019
- XIII. **Anlık Spektral Görüntüleme için Tasarım Eniyileme**
Ayazgok S., Öktem S. F.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- XIV. **Snapshot Spectral Imaging with Generalized Photon Sieves**
Ayazgok S., ÖKTEM S. F.
OSA Imaging and Applied Optics Congress, Munich, Germany, 24 - 27 June 2019
- XV. **Convolutional Inverse Problems in Imaging with Convolutional Sparse Models**
Dogan D., ÖKTEM S. F.
OSA Imaging and Applied Optics Congress, Munich, Germany, 24 - 27 June 2019
- XVI. **Deep Learning-Based Hybrid Approach for Phase Retrieval**
IŞIL Ç., ÖKTEM S. F., KOÇ A.
OSA Imaging and Applied Optics Congress, Munich, Germany, 24 - 27 June 2019
- XVII. **Fast Computational Spectral Imaging with a Programmable Diffractive Lens**
Kar O. F., ÖKTEM S. F.

OSA Imaging and Applied Optics Congress, Munich, Germany, 24 - 27 June 2019

- XVIII. Image deconvolution via efficient sparsifying transform learning Hizli Seyrekleştirici Dönüşüm Öğrenme ile Görüntü Ters Evrisimi**
Akyon F., Kamaci U., Öktem S. F.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- XIX. Image restoration for sparse aperture optical systems Seyrek açıklıklı optik sistemler için imge onarımı**
Iskender B., Oktem F. S.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- XX. A Phase-Space Approach to Diffraction-Limited Resolution**
Işıl Ç., Öktem S. F.
Imaging and Applied Optics 2018 (3D, AO, AIO, COSI, DH, IS, LACSEA, LSC, MATH, pCAOP), Florida, United States Of America, 25 - 28 June 2018
- XXI. Compressive Photon-Sieve Spectral Imaging**
Kar O. F., Kamaci U., Akyon F., Öktem S. F.
Imaging and Applied Optics 2018 (3D, AO, AIO, COSI, DH, IS, LACSEA, LSC, MATH, pCAOP), Florida, United States Of America, 25 - 28 June 2018
- XXII. Diffusion tensor magnetic resonance electrical impedance tomography versus magnetic resonance conductivity tensor imaging**
Sadighi M., Öktem S. F., Eyüboğlu B. M.
International Society of Magnetic Resonance in Medicine ESMRMB Joint Annual Meeting, Paris, France, 16 - 21 June 2018, vol.26, pp.1-4
- XXIII. Effect of different sparsity priors on compressive photon-sieve spectral imaging**
Kar O. F., Öktem S. F., Kamaci U., Akyon F. C.
2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XXIV. UWB 3D Near-Field Imaging with a Sparse MIMO Antenna Array for Concealed Weapon Detection**
Anadol E., Seker I., Camlica S., Topbas T. O., Koc S., Alatan L., Oktem F., Civi O. A.
Conference on Radar Sensor Technology XXII, Florida, United States Of America, 16 - 18 April 2018, vol.10633
- XXV. Optimal Design of Sparse MIMO Arrays for Near-Field Ultrawideband Imaging**
Kocamis M. B., ÖKTEM S. F.
25th European Signal Processing Conference (EUSIPCO), Greece, 28 August - 02 September 2017, pp.1952-1956
- XXVI. OTF Analysis of a Spaceborne CMOS Imaging Sensor**
Alici K. B., Karci O., Yilmaz A. S., Ozdemir C., ÖKTEM S. F., Selimoglu O.
8th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 19 - 22 June 2017, pp.133-138
- XXVII. Çok Genişbantlı Mikrodalga Görüntüleme için Optimal MIMO Dizilimi**
Kocamis B., ÖKTEM S. F.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, Turkey, 15 - 18 May 2017
- XXVIII. Optimal MIMO Array Configuration for Ultrawideband Microwave Imaging**
Kocamis M. B., ÖKTEM S. F.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XXIX. EFFICIENT SPARSITY-BASED INVERSION FOR PHOTON-SIEVE SPECTRAL IMAGERS WITH TRANSFORM LEARNING**
Kamaci U., Akyon F. C., Alkanat T., Oktem F. S.
5th IEEE Global Conference on Signal and Information Processing (GlobalSIP), Montreal, Canada, 14 - 16 November 2017, pp.1225-1229
- XXX. Milli Arcsecond Imaging of the Solar Corona**
Joseph D., ÖKTEM S. F., FARZAD K.

41st COSPAR Scientific Assembly (cancelled), 30 July - 07 August 2016

- XXXI. **Computational image formation with photon sieves for milli arcsecond solar imaging**
ÖKTEM S. F., Kamalabadi F., Davila J.
41st COSPAR Scientific Assembly (cancelled), 30 July - 07 August 2016
- XXXII. **Fast Computation of Two Dimensional Point Spread Functions for Photon Sieves**
ÖKTEM S. F., Alkanat T.
OSA Imaging and Applied Optics Congress 2016, 25 - 28 July 2016
- XXXIII. **Foton Süzgeci ile Hesaplamalı Spektral Görüntüleme**
ÖKTEM S. F., Kamalabadi F., Davila J. M.
24th Signal Processing and Communications Applications Conference, Turkey, 16 - 19 May 2016
- XXXIV. **Milli Arcsecond MAS Imaging of the Solar Corona**
Davila J. M., ÖKTEM S. F., Kamalabadi F., O'Neill J., Gradac A. M. N., Daw A. N., Rabin D. M.
AAS/Solar Physics Division Meeting, 31 May - 03 June 2016
- XXXV. **Computational Spectral Imaging with Photon Sieves**
ÖKTEM S. F., Kamalabadi F., Davila J. M.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.425-428
- XXXVI. **Exploring the Photon Sieve: Mathematical Framework and Experimental Categorization**
O'Neill J., Davila J. M., ÖKTEM S. F., Daw A.
Next Generation Instrumentation in Solar and Space Physics: Critical Measurements From Low Cost Missions/Platforms, AGU Fall Meeting, 15 - 19 December 2014
- XXXVII. **High-Resolution Solar Imaging With Photon Sieves**
ÖKTEM S. F., Kamalabadi F., Davila J. M.
American Geophysical Union, Fall Meeting, 15 - 19 December 2014
- XXXVIII. **Slitless Solar Spectroscopy**
Kamalabadi F., ÖKTEM S. F., Davila J. M.
American Geophysical Union, Fall Meeting, 15 - 19 December 2014
- XXXIX. **High resolution computational spectral imaging with photon sieves**
Öktem S. F., Kamalabadi F., Davila J.
IEEE Int. Conf. on Image Processing (ICIP), Paris, France, 27 - 30 October 2014
- XL. **Imaging Techniques for High-Resolution and Instantaneous Observations of the Solar Corona**
ÖKTEM S. F., Kamalabadi F., Davila J. M.
7th Solar Information Processing Workshop, 18 - 21 August 2014
- XLI. **Slitless solar spectroscopy**
O'Neill J., Davila J. M., ÖKTEM S. F.
224th American Astronomical Society Meeting, 1 - 05 June 2014
- XLII. **Parameter estimation for instantaneous spectral imaging**
ÖKTEM S. F., Kamalabadi F., Davila J. M.
IEEE Int. Conf. on Acoustic Speech and Signal Processing (ICASSP), 4 - 09 May 2014
- XLIII. **Linear Canonical Transforms, Degrees of Freedom, and Sampling in Optical Signals and Systems**
ÖZAKTAŞ M. H., ÖKTEM S. F.
22nd Signal Processing and Communications Applications Conference (SIU), Turkey, 23 - 25 April 2014
- XLIV. **Image formation model for photon sieves**
ÖKTEM S. F., Davila J., Kamalabadi F.
IEEE Int. Conf. on Image Processing (ICIP), 15 - 18 September 2013
- XLV. **Degrees of freedom of optical systems and signals with applications to sampling and system simulation**
ÖKTEM S. F., ÖZAKTAŞ M. H.
2013 OSA Imaging Systems and Applications (IS), 23 - 27 June 2013
- XLVI. **Condition number in recovery of signals from partial fractional Fourier domain information**
ÖKTEM S. F., ÖZAKTAŞ M. H.

- OSA Adaptive Optics: Methods, Analysis and Applications 2013, 23 - 27 June 2013
- XLVII. **Cramer Rao bounds and instrument optimization for slitless spectroscopy**
ÖKTEM S. F., Kamalabadi F., Davila J.
IEEE Int. Conf. on Acoustic Speech and Signal Processing (ICASSP), 26 - 31 May 2013
- XLVIII. **Multi-order slitless solar spectroscopy: a parametric inversion approach**
ÖKTEM S. F., Kamalabadi F., Davila J. M.
6th Solar Information Processing Workshop, 13 - 16 August 2012
- XLIX. **Analytical precision limits in slitless spectroscopy**
ÖKTEM S. F., Kamalabadi F.
2012 IEEE Statistical Signal Processing Workshop (SSP), 5 - 08 August 2012
- L. **Schulz-Snyder Phase Retrieval Algorithm as an Alternating Minimization Algorithm**
ÖKTEM S. F., Blahut R. E.
2011 OSA Computational Optical Sensing and Imaging (COSI), 10 - 14 July 2011
- LI. **Linear Algebraic Analysis of Fractional Fourier Domain Interpolation**
ÖKTEM S. F., Ozaktas H. M.
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.158-161

Supported Projects

- ÖKTEM S. F., Project Supported by Higher Education Institutions, En iyi optik tasarım ve örnekleme için uzam-frekans uzayına dayalı teknikler geliştirilmesi, 2015 - 2022
- ÖKTEM S. F., TUBITAK Project, Foton-Süzgeci İle Sıkıştırılmış Spektral Görüntüleme: Modeller, Algoritmalar, Ve Deneysel Uygulama, 2018 - 2021
- Öktem S. F., Project Supported by Other Official Institutions, İMECE-Uydu Alt Yapısı Geliştirilmesi, 2018 - 2018
- Vural E., Öktem S. F., TUBITAK Project, Düşük boyutlu veri kümeleri için grafa dayalı transfer öğrenme, 2017 - 2018
- Öktem S. F., Koç S. S., Candan Ç., Tanık Y., Kuzuoğlu M., Aydın Çivi H. Ö., Orguner U., Project Supported by Other Private Institutions, ÇAFRAD Projesi Teknoloji/Konsept Gösterim Fazı (ÇAFRAD FAZ-1) Projesi, 2014 - 2018
- Öktem S. F., Project Supported by Other Official Institutions, İMECE-Uydu Alt Yapısı Geliştirilmesi, 2017 - 2017
- Öktem S. F., Alatan L., Aydın Çivi H. Ö., Koç S. S., Alatan A. A., Candan Ç., Ergül Ö. S., Project Supported by Other Private Institutions, 3-boyutlu Güvenlik Görüntüleme Radarı Projesi - Elektromanyetik Modelleme, Simülasyon ve Çözüm Yöntemleri, 2015 - 2017
- Öktem S. F., Project Supported by Other Official Institutions, İMECE-Uydu Alt Yapısı Geliştirilmesi, 2016 - 2016

Activities in Scientific Journals

- OPTICS EXPRESS, Special Issue Editor, 2021 - 2022
- APPLIED OPTICS, Special Issue Editor, 2021 - 2022

Memberships / Tasks in Scientific Organizations

- IEEE SPS Turkey Chapter, Country Representative, 2022 - Continues, United States Of America
- IEEE Women in Signal Processing Sub-Committee on Grade Elevation, Nominations and Awards, Member, 2021 - Continues, United States Of America

Scientific Refereeing

- OPTICS EXPRESS, Journal Indexed in SCI-E, December 2022

IET SIGNAL PROCESSING, Journal Indexed in SCI-E, November 2022
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Havelsan, Turkey, August 2022
IEEE TRANSACTIONS ON IMAGE PROCESSING, SCI Journal, July 2022
ICIP 2022, Conference Paper (Full Text), May 2022
ICIP 2022, Conference Paper (Full Text), May 2022
ICIP 2022, Conference Paper (Full Text), May 2022
SCIENTIFIC REPORTS, SCI Journal, May 2022
SIGNAL PROCESSING, Journal Indexed in SCI-E, January 2022
Erasmus Project, Erasmus Project, National Level, Türkiye Fulbright Eğitim Komisyonu, Turkey, January 2022
TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, September 2021
SIGNAL PROCESSING, SCI Journal, August 2021
IEEE Sensors Letters, SCI Journal, June 2021
SIU 2021, Conference Paper (Full Text), May 2021
Theory of Remote Image Formation, Textbook Published by Renowned Publishing Houses, March 2021
APPLIED OPTICS, SCI Journal, February 2021
OPTICS EXPRESS, SCI Journal, February 2021
ICASSP 2021, Conference Paper (Full Text), January 2021
ICASSP 2021, Conference Paper (Full Text), January 2021
IEEE ACCESS, SCI Journal, January 2021
ICASSP 2021, Conference Paper (Full Text), January 2021
JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION, SCI Journal, November 2020
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, SCI Journal, November 2020
TUBITAK Project, 1501 - Industry R & D Projects Support Program, MAMUR TEKNOLOJİ SİSTEMLERİ SANAYİ ANONİM ŞİRKETİ, Turkey, November 2020
OPTICS EXPRESS, SCI Journal, June 2020
OPTICS LETTERS, SCI Journal, June 2020
JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION, SCI Journal, March 2020
SIU 2020, Conference Paper (Full Text), February 2020
SIU 2020, Conference Paper (Full Text), February 2020
SIU 2020, Conference Paper (Full Text), February 2020
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, SCI Journal, February 2020
SIU 2020, Conference Paper (Full Text), February 2020
SIU 2020, Conference Paper (Full Text), February 2020
ICASSP 2020, Conference Paper (Full Text), January 2020
ICASSP 2020, Conference Paper (Full Text), January 2020
ICASSP 2020, Conference Paper (Full Text), January 2020
ICASSP 2020, Conference Paper (Full Text), January 2020
Journal Of The Optical Society Of America A-Optics Image Science And Vision, SCI Journal, December 2019
TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, December 2019
ICCV 2019 Workshop on Learning for Computational Imaging (LCI): Sensing, Reconstruction, and Analysis (<https://sites.google.com/view/iccv-lci2019/home>), Conference Paper (Full Text), August 2019
ICCV 2019 Workshop On Learning For Computational Imaging (LCI): Sensing, Reconstruction, And Analysis (<https://sites.google.com/view/iccv-lci2019/home>), Conference Paper (Full Text), August 2019
ICCV 2019 Workshop On Learning For Computational Imaging (LCI): Sensing, Reconstruction, And Analysis (<https://sites.google.com/view/iccv-lci2019/home>), Conference Paper (Full Text), August 2019
IEEE TRANSACTIONS ON IMAGE PROCESSING, SCI Journal, May 2019
IEEE TRANSACTIONS ON IMAGE PROCESSING, SCI Journal, March 2019
SIU 2019, Conference Paper (Full Text), February 2019
SIU 2019, Conference Paper (Full Text), February 2019
SIU 2019, Conference Paper (Full Text), February 2019
IEEE TRANSACTIONS ON SIGNAL PROCESSING, SCI Journal, February 2019

SIU 2019, Conference Paper (Full Text), February 2019

ICASSP 2019, Conference Paper (Full Text), January 2019

ICASSP 2019, Conference Paper (Full Text), January 2019

ICASSP 2019, Conference Paper (Full Text), January 2019

IEEE TRANSACTIONS ON SIGNAL PROCESSING, SCI Journal, September 2018

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, September 2018

ICASSP 2018, Conference Paper (Full Text), January 2018

Tasks In Event Organizations

Öktem S. F., 2022 Computational Optical Imaging and Sensing (COSI) Conference, Scientific Congress, Turkey, Temmuz 2022

Öktem S. F., 2021 OSA Computational Optical Imaging and Sensing (COSI) Conference, Scientific Congress, Canada, Temmuz 2021

Öktem S. F., 28th Signal Processing and Communication Applications (SIU) Conference, Scientific Congress, Turkey, Ekim 2020

Öktem S. F., 2020 OSA Computational Optical Imaging and Sensing (COSI) Meeting, Scientific Congress, Canada, Temmuz 2020

Öktem S. F., 2019 ICCV Workshop on Learning for Computational Imaging, Workshop Organization, Seoul, South Korea, Kasım 2019

Öktem S. F., 2019 OSA Computational Optical Imaging and Sensing (COSI) Meeting, Scientific Congress, Germany, Haziran 2019

Öktem S. F., 27th Signal Processing and Communications Applications (SIU) Conference, Scientific Congress, Sivas, Turkey, Nisan 2019

Öktem S. F., 25th Signal Processing and Communication Applications (SIU) conference, Scientific Congress, Turkey, Mayıs 2017

Öktem S. F., 41st COSPAR Scientific Assembly (cancelled due to 15 July), Scientific Congress, Turkey, Ağustos 2016

Metrics

Publication: 74

Citation (WoS): 187

Citation (Scopus): 335

H-Index (WoS): 7

H-Index (Scopus): 10

Congress and Symposium Activities

7th International Symposium on Multidisciplinary Studies and Innovative Technologies, Invited Speaker, Ankara, Turkey, 2023

21. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Invited Speaker, İstanbul, Turkey, 2019

Invited Talks

Degrees of freedom of optical systems and signals with applications to sampling and system simulation, Conference, Imaging Systems and Applications Meeting, OSA Imaging and Applied Optics Congress, United States Of America, June 2013