

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAH-2516-2020

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Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), Turkey 2005 - 2012

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği (YI) (Tezli), Turkey 2002 - 2005

Undergraduate, Ankara University, Mühendislik Fakültesi, Elektronik Mühendisliği Pr., Turkey 1998 - 2002

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Multistatik hedef takibi başarım analizinde gözlenen bilgi matrisi kullanımı, Ankara University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), 2012

Postgraduate, Çoklu hedef takibinde adaptif yaklaşımlarla iz yönetimi, Ankara University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği (YI) (Tezli), 2005

Academic Titles / Tasks

Assistant Professor, Ankara University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2013 - Continues

Research Assistant, Ankara University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2002 - 2013

Courses

PROBABILITY AND RANDOM VARIABLES, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Olasılık ve Rastgele Süreçler, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Probability and Random Processes, Undergraduate, 2022 - 2023

KESTRİM VE HEDEF İZLEME TEMELLERİ, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2016 - 2017

PROBABILITY AND STOCHASTIC PROCESSES, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016

- 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

OLASILIK VE STOKASTİK SÜREÇLER, Undergraduate, 2018 - 2019, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

KESTİRİM VE HEDEF İZLEME I, Postgraduate, 2014 - 2015

KESTİRİM VE HEDEF İZLEME II, Doctorate, 2014 - 2015

Linear System Analysis, Undergraduate, 2014 - 2015

Lineer Sistem Analizi, Undergraduate, 2013 - 2014

Advising Theses

SOYSAL G., Hafif sıklet blok şifreleme algoritmalarının yazılım uygulaması ve başarımların analizi, Postgraduate, K.KURU(Student), 2021

SOYSAL G., Real time applicable monopulse direction finding algorithms for electronic support systems, Postgraduate, A.EMİN(Student), 2020

SOYSAL G., Ship target classification using high range resolution profile, Postgraduate, Ö.ERGÜN(Student), 2018

SOYSAL G., Determination of land regions in radar video image, Postgraduate, S.NUR(Student), 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Sequential Transient Detection for RF Fingerprinting**
TAŞCIOĞLU S., KÖSE M., SOYSAL G.
ELECTRONICS, vol.11, no.20, 2022 (SCI-Expanded)
- II. **Robust Weighted l(1,2) Norm Filtering in Passive Radar Systems**
Satar B., SOYSAL G., Jiang X., EFE M., Kirubarajan T.
SENSORS, vol.20, no.11, 2020 (SCI-Expanded)
- III. **Modeling, simulation and optimization of a wireless ad hoc network's communication performance with regard to node deployment**
AKBULUT A., SOYSAL G., KALAYCIOĞLU A., Yılmaz A. E., Orumlu M.
SIMULATION MODELLING PRACTICE AND THEORY, vol.96, 2019 (SCI-Expanded)
- IV. **Utilization of OIM for Measurement Selection in Multistatic Target Tracking**
SOYSAL G., EFE M., Streit R. L.
RADIOENGINEERING, vol.23, no.1, pp.111-120, 2014 (SCI-Expanded)
- V. **Kalman Filter Aided Cooperative Optical Beam Tracking**
SOYSAL G., EFE M.
RADIOENGINEERING, vol.19, no.2, pp.242-248, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Estimating the frequency and bandwidth of square-split ring resonator (S-SRR) designs via support vector machines (SVM)**
Can S., Soysal G.
Communications Faculty of Sciences University of Ankara Series A2-A3 Physical Sciences and Engineering, vol.63, no.2, pp.127-141, 2021 (Peer-Reviewed Journal)
- II. **UMTS passive radar implementation with two stage tracking algorithm**
Soysal G., Efe M.
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, vol.58, no.1, pp.29-53, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Controller Design for CACC with Time-varying Communication Delays**
Bingol H., SOYSAL G., SCHMIDT K. V.
31st IEEE Conference on Signal Processing and Communications Applications (SIU), İstanbul, Turkey, 5 - 08 July 2023
- II. **Design and Implementation of a Lightweight SPI Master IP for Low Cost FPGAs**
Aykenar M. B., SOYSAL G., EFE M.
28th Signal Processing and Communications Applications Conference (SIU), ELECTR NETWORK, 5 - 07 October 2020
- III. **Analysis of Distance Information Error Between Phase Centers in Phase Comparison Direction Finding Methods**
Gurel A. E., Orduyilmaz A., SOYSAL G.
28th Signal Processing and Communications Applications Conference (SIU), ELECTR NETWORK, 5 - 07 October 2020
- IV. **A Multiple Model Approach for Estimating Roll Rate of a Very Fast Spinning Artillery Rocket**
Aykenar M. B., Boz I. C., SOYSAL G., EFE M.
23rd International Conference on Information Fusion (FUSION), ELECTR NETWORK, 6 - 09 July 2020, pp.42-48
- V. **Quaternion Vector Based Pedestrian Dead-Reckoning with Smartphones**
Essiz G., SOYSAL G.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- VI. **Track Based UAV Classification Using Surveillance Radars**
Sarıkaya T. B., Yumus D., EFE M., SOYSAL G., Kirubarajan T.
22nd International Conference on Information Fusion (FUSION), Ottawa, Canada, 2 - 05 July 2019
- VII. **Determination of Land Regions with Segmentation in Radar Video Image**
Akaydin S. N., SOYSAL G., Sarıkaya T. B.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- VIII. **Real Time Ambiguity Resolution in Hybrid Amplitude/Phase Comparison Direction Finding Systems**
Gurel A. E., Orduyilmaz A., Serin M., Yildirim A., SOYSAL G.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- IX. **A Do It Yourself Mobile Communications Signal Based Passive Radar**
Satar B., Ersoy Y., SOYSAL G., EFE M.
21st International Conference on Information Fusion (FUSION), Cambridge, Canada, 10 - 13 July 2018, pp.492-499
- X. **Real Time Four Channel Phase Comparison Direction Finding Method**
Orduyilmaz A., Kara G., Gurel A. E., Serin M., Yildirim A., SOYSAL G.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XI. **Ship Classification with High Range Resolution Radar**
Ergun O., Sarıkaya T. B., SOYSAL G., EFE M.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XII. **Havaalanları için Hava Trafik Kontrolünde İkincil Gözetim Radarı ve Çoklu Laterasyon Yöntemlerinin Performanslarının Karşılaştırılması**
Ergün Ö., Ersoy Y., SOYSAL G., EFE M.
7. Ulusal Savunma Uygulamaları Modelleme ve Simülasyon Konferansı, Turkey, 21 - 23 October 2017
- XIII. **Feasibility of UMTS Signal for Passive Radar**
SOYSAL G., Satar B., EFE M., Ersoy Y.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XIV. **Sea-land classification using radar clutter statistics for shore - Based surveillance radars**
Sarıkaya T., SOYSAL G., EFE M., Sobaci E., Kirubarajan T.
2017 International Conference on Radar Systems, Radar 2017, Belfast, United Kingdom, 23 - 26 October 2017, vol.2017
- XV. **Terrain Aided Flight Solution: TerraFlite(TM)**

SOYSAL G., Ersoy Y., Efe M., Kurtoglu H., Cak S.

27th International Technical Meeting of the Satellite-Division of the Institute-of-Navigation (ION GNSS), Tama, Japan, 8 - 12 September 2014, pp.2183-2190

XVI. Terrain aided flight solution: TerraFlite™

SOYSAL G., Ersoy Y., EFE M., Kurtoglu H., Cak S.

27th International Technical Meeting of the Satellite Division of the Institute of Navigation, ION GNSS 2014, Florida, United States Of America, 8 - 12 September 2014, vol.3, pp.2183-2190

XVII. PERFORMANCE OF THE INTERACTING MULTIPLE MODEL FILTER UNDER HIGH MEASUREMENT RATES

SOYSAL G., EFE M., Bayri A., Camlica S., Yildirim B.

21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013

XVIII. Data fusion in a multistatic radar network using covariance intersection and particle filtering

SOYSAL G., EFE M.

14th International Conference on Information Fusion, Fusion 2011, Chicago, IL, United States Of America, 5 - 08 July 2011

XIX. Analysis of observed information in multistatic radar network Multistatik radar ağında gözlenen bilginin incelenmesi

SOYSAL G., EFE M.

18th IEEE Signal Processing and Communications Applications Conference, SIU 2010, Diyarbakır, Turkey, 22 - 24 April 2010, pp.808-811

XX. Information Analysis in Passive Radar Networks for Target Tracking

SOYSAL G., Bozdogan A. O., EFE M.

12th International Conference on Information Fusion, Washington, United States Of America, 6 - 09 July 2009, pp.1115-1122

XXI. Multistatic Tracking Using Bistatic Range - Range Rate Measurements

Bozdogan A. O., SOYSAL G., EFE M.

12th International Conference on Information Fusion, Washington, United States Of America, 6 - 09 July 2009, pp.2107-2113

XXII. Performance comparison of tracking algorithms for a ground based radar

SOYSAL G., EFE M.

IEE Seminar on Target Tracking: Algorithms and Applications, Birmingham, United Kingdom, 7 - 08 May 2006, vol.2006, pp.45-52

XXIII. An adaptive Kalman filter for tracking maneuvering targets

SOYSAL G., EFE M.

IEEE 14th Signal Processing and Communications Applications, Antalya, Turkey, 16 - 19 April 2006, pp.850-851

Metrics

Publication: 31

Citation (WoS): 19

Citation (Scopus): 76

H-Index (WoS): 3

H-Index (Scopus): 5