

Asst. Prof. Uğur YILDIRAN

Personal Information

Email: uyildiran@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/uyildiran>

Education Information

Doctorate, Bogazici University, Institute Of Science, Elektrik-Elektronik Mühendisliği, Turkey 2001 - 2009

Postgraduate, Bogazici University, Institute Of Science, Department Of System And Control Engineering (Interdisciplinary), Turkey 1999 - 2001

Undergraduate, Istanbul Technical University, Elektrik-Elektronik, Kontrol ve Bilgisayar Mühendisliği, Turkey 1994 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Bazı ikinci derece polinom eniyileme problemleri için doğrusal matris eşitsizliği formülasyonları, Bogazici University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2008

Postgraduate, DEĞİŞKEN YAPILI SİSTEMLER KURAMININ AKILLI SİSTEMLERİN EĞİTİMİNE UYGULANMASI , Bogazici University, Institute Of Science, Department Of System And Control Engineering (Interdisciplinary), 2001

Research Areas

Control and System Engineering, Robotics and Mechatronics Systems, Energy, Renewable energy, Stochastic Processes, Optimization Theory and Methods, Nonlinear Programming, Linear Programming, Global Optimization, Integer and Mixed Integer Programming

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Control And Automation Engineering, 2022 - Continues

Assistant Professor, Yeditepe University, Faculty Of Engineering-Architecture, Department Of Industrial And Systems Engineering, 2010 - 2022

Research Assistant, Yeditepe University, Faculty Of Engineering-Architecture, Department Of Industrial And Systems Engineering, 2004 - 2009

Research Assistant, Oklahoma State University, 2003 - 2004

Research Assistant, Bogazici University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2000 - 2003

Academic and Administrative Experience

Deputy Head of Department, Yeditepe University, Faculty Of Engineering, 2012 - 2022

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

- I. **Risk-averse stochastic model predictive control-based real-time operation method for a wind energy generation system supported by a pumped hydro storage unit**
Yildiran U., Kayahan I.
APPLIED ENERGY, vol.226, pp.631-643, 2018 (Journal Indexed in SCI)
- II. **MILP based short-term centralized and decentralized scheduling of a hydro-chain on Kelkit River**
Yildiran U., Kayahan I., Tunc M., Sisbot S.
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.69, pp.1-8, 2015 (Journal Indexed in SCI)
- III. **Optimal Distribution of Electrical Energy Sources in Turkey with the Impact of the Kyoto Protocol**
Sisbot S., Yildiran U., Tunc M.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.10, no.3, pp.288-297, 2015 (Journal Indexed in SCI)
- IV. **LMI Representations of the convex hulls of quadratic basic semialgebraic sets**
Yildiran U., Emre Köse I.
Journal of Convex Analysis, vol.17, no.2, pp.535-551, 2010 (Journal Indexed in SCI)
- V. **Convex hull of two quadratic constraints is an LMI set**
Yildiran U.
IMA JOURNAL OF MATHEMATICAL CONTROL AND INFORMATION, vol.26, no.4, pp.417-450, 2009 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Nonnegative Wind Speed Time Series Models for SDDP and Stochastic Programming Applications**
Yildiran U.
2019 IEEE PES Innovative Smart Grid Technologies Europe, ISGT-Europe 2019, Bucharest, Romania, 29 September - 02 October 2019
- II. **Stochastic model predictive control-based real-time operation of a transmission constrained joint wind-PHS system**
Kayahan I., Yildiran U.
6th International Conference on Control Engineering and Information Technology, CEIT 2018, İstanbul, Turkey, 25 - 27 October 2018
- III. **A study on object classification using deep convolutional neural networks and comparison with shallow networks**
Erdas A., Arslan E., Ozturkcan B., Yildiran U.
6th International Conference on Control Engineering and Information Technology, CEIT 2018, İstanbul, Turkey, 25 - 27 October 2018
- IV. **An Application of SMC Theory for Experimental Learning Control of Robotic Manipulators**
Yildiran U., Kaynak O.
2003 IEEE/RSJ International Conference on Intelligent Robots and Systems, Las Vegas, NV, United States Of America, 27 - 31 October 2003, vol.1, pp.694-698
- V. **Neural network based control of a cement mill by means of a VSS based training algorithm**
Yildiran U., Kaynak M.
IEEE International Symposium on Industrial Electronics, L'Aquila, Italy, 8 - 11 July 2002, pp.326-331
- VI. **VSS learning based intelligent control of a bioreactor system**
Yildiran U., Kaynak O.

5th International Conference on Asian Fuzzy Systems Society, AFSS 2002, Calcutta, India, 3 - 06 February 2002,
vol.2275, pp.281-287

Citations

Total Citations (WOS):32

h-index (WOS):4