

Asst. Prof. SALTUK BUĞRA SELÇUKLU

Personal Information

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Education Information

Doctorate, Rutgers, The State University Of New Jersey, School Of Engineering, Industrial And Systems Engineering, United States Of America 2010 - 2015

Postgraduate, Colorado State University-Pueblo, School Of Engineering, Industrial And Systems Engineering, United States Of America 2007 - 2008

Undergraduate, Yıldız Teknik Üniversitesi, Makine Fakültesi, Endüstri Mühendisliği, Turkey 2002 - 2007

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, MULTI-OBJECTIVE GENERATION EXPANSION PLANNING CONSIDERING UNCERTAINTY AND MODELING WITH THE PARETO UNCERTAINTY INDEX, Rutgers, The State University Of New Jersey, Graduate School – New Brunswick, Industrial And Systems Engineering, 2015

Research Areas

Industrial Engineering , Optimization Theory and Methods, Multiobjective Optimization, Simulation, Simulation Optimization, Energy, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Enerji Sistemleri Mühendisliği , 2016 - Continues

Research Assistant, Erciyes University, Mühendislik Fakültesi, Enerji Sistemleri Mühendisliği , 2010 - 2016

Academic and Administrative Experience

Assistant Manager of Research and Application Center, Erciyes University, Mühendislik Fakültesi, Enerji Sistemleri Mühendisliği , 2019 - Continues

Head of Department, Erciyes University, Mühendislik Fakültesi, Enerji Sistemleri Mühendisliği , 2017 - Continues

Courses

Enerji Hukuku, Undergraduate, 2018 - 2019, 2019 - 2020
Enerji Sistemlerinin Tasarımı ve Optimizasyonu , Undergraduate, 2017 - 2018, 2018 - 2019
Enerji Ekonomisi ve Politikaları, Undergraduate, 2018 - 2019, 2019 - 2020
Mühendislikte İleri Sayısal Yöntemler, Postgraduate, 2017 - 2018, 2018 - 2019
Enerji Sistemlerinin Tasarımı ve Optimizasyonu , Undergraduate, 2017 - 2018, 2018 - 2019
Lineer Cebir ve Mühendislik Uygulamaları, Undergraduate, 2017 - 2018, 2018 - 2019
Bitirme Ödevi , Undergraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020
Enerji Ekonomisi ve Politikaları, Undergraduate, 2018 - 2019, 2019 - 2020
Uzmanlık Alan Dersi, Postgraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020
Enerji Sistemleri Tasarım ve Uygulama, Undergraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020
Doğrusal Programlama , Undergraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020
Lineer Cebir ve Mühendislik Uygulamaları , Undergraduate, 2017 - 2018, 2018 - 2019
Enerji Kaynakları, Undergraduate, 2017 - 2018, 2018 - 2019
Enerji Hukuku , Undergraduate, 2018 - 2019, 2019 - 2020
Ekonomik Analiz Yöntemleri , Undergraduate, 2017 - 2018, 2019 - 2020
Enerji Sistemlerinin Optimizasyonu , Doctorate, 2018 - 2019, 2019 - 2020
Bitirme Ödevi , Undergraduate, 2018 - 2019
Dinamik, Undergraduate, 2017 - 2018, 2018 - 2019
Ekonomik Analiz Yöntemleri, Undergraduate, 2017 - 2018, 2019 - 2020
Dinamik, Undergraduate, 2017 - 2018, 2018 - 2019
Uzmanlık Alan Dersi, Postgraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020
Enerji Kaynakları , Undergraduate, 2017 - 2018, 2018 - 2019
Enerji Mühendisliğine Giriş , Undergraduate, 2018 - 2019, 2019 - 2020
Doğrusal Programlama, Undergraduate, 2018 - 2019, 2019 - 2020
Mühendislikte İstatistik Metotlar , Undergraduate, 2018 - 2019
Enerji Ekonomisi ve Politikaları, Doctorate, 2017 - 2018
Mühendislikte Sayısal Metotlar , Undergraduate, 2017 - 2018
Mühendislikte İstatistik Metotlar , Undergraduate, 2018 - 2019
Seminer, Postgraduate, 2017 - 2018
Enerji Mühendisliğine Giriş , Undergraduate, 2018 - 2019

Advising Theses

Selçuklu S. B. , Maksimum Rekabet Amaçlı Elektrik Üretim Kapasite Planlaması, Postgraduate, A.Isam(Student), 2020
Selçuklu S. B. , Electricity Markets Simulation Game, Postgraduate, I.Coffie(Student), 2020
Selçuklu S. B. , Türkiye'nin elektrik üretim yatırımları optimizasyonunda yenilenebilir enerjinin ekonomik kalkınma ve istihdama etkisi, Postgraduate, A.MOVLYANOV(Student), 2019
Selçuklu S. B. , Kayseri ili için güneş santrali elektrik enerjisi üretimtahmin planlaması, Postgraduate, O.NKURIYINGOMA(Student), 2018

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, September, 2019
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, May, 2018
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, July, 2017

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

- I. **Pareto uncertainty index for evaluating and comparing solutions for stochastic multiple objective problems**
SELÇUKLU S. B. , Coit D. W. , Felder F. A.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.284, no.2, pp.644-659, 2020 (Journal Indexed in SCI)
- II. **Neutronic Analysis of LBE-Uranium Spallation Target Accelerator Driven System Loaded with Uranium Dioxide in TRISO Particles**
Bakir G., SELÇUKLU S. B. , GENÇ G., YAPICI H.
ACTA PHYSICA POLONICA A, vol.130, no.1, pp.30-32, 2016 (Journal Indexed in SCI)
- III. **Neutron-Induced Medical Radioisotope Production in a Conceptual Accelerator-Driven System, Fueled with Uranium Carbide**
ARSLAN A., Bakir G., SELÇUKLU S. B. , GENÇ G., YAPICI H.
ACTA PHYSICA POLONICA A, vol.130, no.1, pp.68-71, 2016 (Journal Indexed in SCI)
- IV. **Medical Radioisotope Production in a Power-Flattened ADS Fuelled with Uranium and Plutonium Dioxides**
Bakir G., SELÇUKLU S. B. , YAPICI H.
SCIENCE AND TECHNOLOGY OF NUCLEAR INSTALLATIONS, 2016 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **GENERATION EXPANSION PLANNING CONSIDERING COMPETITION AND MARKET POWER**
Elzein Elmahi A. I. , Selçuklu S. B.
INTERNATIONAL CONFERENCE ON ENERGY, ENVIRONMENT AND STORAGE OF ENERGY, Kayseri, Turkey, 19 - 21 November 2020, pp.469-473
- II. **Stochastic Multiple Objective Electric Generation Expansion Planning**
Coit D. W. , Selçuklu S. B. , Chatwattanasiri N., Wattanapongsakorn N.
International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON), Hua Hin, Thailand, 24 - 27 June 2015
- III. **Electric power generation expansion planning: Robust optimization considering climate change**
Li S., Coit D. W. , Selçuklu S. B. , Felder F. A.
IIE Annual Conference and Expo 2014, Montreal, Canada, 31 May - 03 June 2014, pp.1049-1058
- IV. **A New Methodology for Solving Multi-Objective Stochastic Optimization Problems with Independent Objective Functions**
Selçuklu S. B. , Coit D. W. , Felder F., Rodgers M., Wattanapongsakorn N.
IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), Bangkok, Thailand, 10 - 13 December 2013, pp.101-105

Supported Projects

Genç M. S. , Genç G., Akay B., Selçuklu S. B. , Akarsu B., Azgın Ş. T. , AB IPA Project, Erciyes Üniversitesi Kampüsünde Enerji Verimliliği Önlemlerinin ve Uygulamalarının Öncelik Sıralamalarının Çok Amaçlı Optimizasyonu , 2020 - 2023

Genç M. S. , Genç G., Selçuklu S. B. , Azgın Ş. T. , Akarsu B., Temirkaynak Ş., AB IPA Project, Hastane Enerji Verimliliği Fizibilite Çalışması, 2020 - 2023

YAPICI H., ÖZİŞİK G., SELÇUKLU S. B. , KAHRAMAN N., DALDABAN F., TÜRKOĞLU O., ÖZLÜ H., KAYATAŞ DEMİR N., ÜSTKOYUNCU N., ERSOY E., et al., Project Supported by Higher Education Institutions, Hidrojen Teknolojisi, Polimer Elektrolit Membranlı Yakıt Hücresi Araştırma Projesi, 2010 - 2014

Scientific Refereeing

International Journal Of Electrical Power & Energy Systems, Journal Indexed in SCI-E, September 2018
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, Journal Indexed in SCI-E, July 2018
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, Journal Indexed in SCI-E, May 2018
RELIABILITY ENGINEERING & SYSTEM SAFETY, SCI Journal, August 2017
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, Journal Indexed in SCI-E, June 2013
RELIABILITY ENGINEERING & SYSTEM SAFETY, SCI Journal, May 2012
ELECTRIC POWER SYSTEMS RESEARCH, Journal Indexed in SCI-E, April 2012

Mobility Activity

Erasmus Programme, Lecturing, Vilnius Gedimimas Teknik Üniversitesi, Lithuania, 2018 - 2018

Edit Congress and Symposium Activities

International Hydrogen Technologies Congress (IHTEC-2021), Attendee, Niğde, Turkey, 2021

Citations

Total Citations (WOS):11

h-index (WOS):2

Scholarships

Yurtdışı Doktora Eğitim Bursu, YOK, 2010 - 2015