

Res. Asst. MUSTAFA SAKA

Personal Information

Email: msaka@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/msaka>

International Researcher IDs

ORCID: 0000-0003-4157-2980

Yoksis Researcher ID: 217375

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), Turkey 2017 - Continues

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Turkey 2015 - 2017

Undergraduate, Pamukkale University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2008 - 2012

Dissertations

Postgraduate, Güç sistemlerinde ekonomik yük ve emisyon dağıtım analizi, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), 2017

Academic Titles / Tasks

Research Assistant, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), 2015 - Continues

Research Assistant, Iskenderun Technical University, Faculty Of Engineering And Natural Sciences, Department Of Electrical And Electronic Engineering, 2015 - 2015

Research Assistant, Mustafa Kemal Üniversitesi, Mühendislik Fakültesi, Elektrik Ve Elektronik Mühendisliği Bölümü, 2014 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Neural network based heuristic fractional order adaptive PID-controller for eliminating communication time delay in multi-area LFC**
SAKA M., Gozde H., EKE İ., TAPLAMACIOĞLU M. C.
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.35, no.6, 2022 (SCI-Expanded)
- II. **Inserting of heuristic techniques into the stability regions for multiarea load frequency control systems with time delays**
SAKA M., SÖNMEZ Ş., EKE İ., Gozde H., TAPLAMACIOĞLU M. C., AYASUN S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.30, no.6, pp.2286-2305, 2022 (SCI-Expanded)
- III. **Heuristic optimization based dynamic weighted state feedback approach for 2DOF PI-controller in automatic voltage regulator**
EKE İ., SAKA M., Gozde H., Arya Y., TAPLAMACIOĞLU M. C.

ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, vol.24, no.4, pp.899-910, 2021 (SCI-Expanded)

- IV. **A novel hybrid global optimization algorithm having training strategy: hybrid Taguchi-vortex search algorithm**
SAKA M., Coban M., EKE İ., TEZCAN S. S., TAPLAMACIOĞLU M. C.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.29, no.4, pp.1908-1930, 2021 (SCI-Expanded)

Articles Published in Other Journals

- I. **DYNAMIC VISUALIZATION OF A STATIC IMAGE WITH AN ACTIONABLE QR CODE**
JAIN V., JAIN Y., AGARWAL M., DHINGRA H., SAINI D., TAPLAMACIOĞLU M. C., SAKA M.
International Journal on "Technical and Physical Problems of Engineering" (IJTPE), vol.13, no.47, pp.138-143, 2021 (Scopus)
- II. **A systematic literature review on qr code detection and pre-processing**
Jain V., Jain Y., Dhingra H., Saini D., Taplamacioğlu M. C., Saka M.
International Journal on Technical and Physical Problems of Engineering, vol.13, no.1, pp.111-119, 2021 (Scopus)
- III. **Fo-pid controller design with sca for communication time delayed lfc**
Saka M., Eke I., Gozde H., Taplamacioğlu M. C.
International Journal on Technical and Physical Problems of Engineering, vol.12, no.4, pp.63-68, 2020 (Scopus)
- IV. **Performance Analysis for Load Frequency Control of Interconnected Power Systems with Different Techniques**
ÇAKICI F. N., EKE İ., SAKA M., TAPLAMACIOĞLU M. C.
Uluslararası Muhendislik Arastirma ve Gelistirme Dergisi, 2020 (Peer-Reviewed Journal)
- V. **FO-PID CONTROLLER DESIGN WITH SCA FOR COMMUNICATION TIME DELAYED LFC**
SAKA M., EKE İ., GÖZDE H., TAPLAMACIOĞLU M. C.
International Journal on Technical and Physical Problems of Engineering, vol.45, no.14, pp.63-68, 2020 (Scopus)
- VI. **Analysis of Communication Time Delayed Automatic Generation Control via SMA with 2 DOF PIADμ Controller for Interconnected Power System**
SAKA M., EKE İ., TAPLAMACIOĞLU M. C.
European Journal of Science and Technology, pp.172-180, 2020 (Peer-Reviewed Journal)
- VII. **VORTEX SEARCH ALGORITHM FOR SOLVING ECONOMIC LOADDISPATCH PROBLEM INCLUDING RAMP RATE LIMITS IN POWER SYSTEMS**
Saka M., Eke İ., Tezcan S. S., Taplamacioğlu M. C.
International Journal on Technical and Physical Problems of Engineering (IJTPE), vol.10, no.1, pp.1-5, 2018 (Scopus)
- VIII. **Analysis of Economic Load Dispatch with a lot of Constraints Using Vortex Search Algorithm**
SAKA M., EKE İ., TEZCAN S. S., TAPLAMACIOĞLU M. C.
Advances in Science, Technology and Engineering Systems Journal (ASTESJ), vol.2, no.6, pp.151-156, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Analysis of Fuel Cell Based Time Delayed Load Frequency Control Having Energy Storage Systems**
SAKA M., DEMİRCİ M., EKE İ., GÖZDE H., DURSUN M., TAPLAMACIOĞLU M. C.
2022 9th International Conference on Electrical and Electronics Engineering (ICEEE), Alanya, Turkey, 29 March 2022
- II. **Dempster Shafer Evidence Theory Application for Fault Diagnosis of Power Transformers**
DEMİRCİ M., SAKA M., GÖZDE H., DURSUN M., TAPLAMACIOĞLU M. C.

2022 9th International Conference on Electrical and Electronics Engineering (ICEEE), Alanya, Turkey, 29 March 2022

- III. **Tuning of Fractional Order PID Parameters for Load Frequency Control Systems with Time Delayed via SCA**
SAKA M., EKE İ., GÖZDE H., TAPLAMACIOĞLU M. C.
ICTPE-2020 The 16th International Conference on Technical and Physical Problems of Engineering, İstanbul, Turkey, 12 - 13 October 2020, pp.23-26
- IV. **AN ANALYSIS OF EMISSION DISPATCH AT POWER SYSTEMS USING VORTEX SEARCH ALGORITHM**
SAKA M., EKE İ., TEZCAN S. S., TAPLAMACIOĞLU M. C.
International Science and Technology Conference (ISTEC 2018), 18 - 20 July 2018
- V. **GİRDAP ARAMA ALGORİTMASI KULLANARAK BİRLEŞİK EKONOMİK YÜK-EMİSYON DAĞITIMI PROBLEMİ ÇÖZÜMÜ**
Saka M., Eke İ., Tezcan S. S., Taplamacioğlu M. C.
II. International Scientific and Vocational Studies Congress (BILMES 2018), Nevşehir, Turkey, 5 - 08 July 2018
- VI. **ECONOMIC LOAD DISPATCH WITH RAMP RATE LIMITS USING VORTEX SEARCH ALGORITHM**
SAKA M., EKE İ., TEZCAN S. S., TAPLAMACIOĞLU M. C.
The 13th International Conference on Technical and Physical Problems of Electrical Engineering, 21 - 23 September 2017
- VII. **Economic Load Dispatch Using Vortex Search Algorithm**
SAKA M., EKE İ., TEZCAN S. S., TAPLAMACIOĞLU M. C.
4th International Conference on Electrical and Electronic Engineering (ICEEE), Ankara, Turkey, 8 - 10 April 2017, pp.77-81
- VIII. **Application of Vortex Search Algorithm to Economic Load Dispatch Including Transmission Losses with Valve-Point Loading Effect**
SAKA M., EKE İ., TEZCAN S. S., TAPLAMACIOĞLU M. C.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), 26 - 28 October 2016

Metrics

Publication: 21

Citation (WoS): 59

Citation (Scopus): 97

H-Index (WoS): 3

H-Index (Scopus): 4