

# Turkish Journal of Electrical Engineering and Computer Sciences

---

Volume 27 | Number 3

Article 57

---

1-1-2019

## Cover and Contents

Follow this and additional works at: <https://journals.tubitak.gov.tr/elektrik>

---

### Recommended Citation

(2019) "Cover and Contents," *Turkish Journal of Electrical Engineering and Computer Sciences*: Vol. 27: No. 3, Article 57. Available at: <https://journals.tubitak.gov.tr/elektrik/vol27/iss3/57>

This Cover and Contents is brought to you for free and open access by TÜBİTAK Academic Journals. It has been accepted for inclusion in Turkish Journal of Electrical Engineering and Computer Sciences by an authorized editor of TÜBİTAK Academic Journals. For more information, please contact [academic.publications@tubitak.gov.tr](mailto:academic.publications@tubitak.gov.tr).

VOLUME | ISSUE | YEAR  
27 | 3 | 2019  
ISSN 1300-0632 • E-ISSN 1303-6203

TURKISH JOURNAL OF  
**ELECTRICAL  
ENGINEERING  
& COMPUTER  
SCIENCES**

<http://journals.tubitak.gov.tr/elektrik/>



Published by the Scientific and  
Technological Research Council of Turkey

**TÜBİTAK**

## SCOPE

- The Turkish Journal of Electrical Engineering & Computer Sciences is published electronically 6 times a year by the Scientific and Technological Research Council of Turkey (TÜBİTAK)
- Accepts English-language manuscripts in the areas of power and energy, environmental sustainability and energy efficiency, electronics, industry applications, control systems, information and systems, applied electromagnetics, communications, signal and image processing, tomographic image reconstruction, face recognition, biometrics, speech processing, video processing and analysis, object recognition, classification, feature extraction, parallel and distributed computing, cognitive systems, interaction, robotics, digital libraries and content, personalized healthcare, ICT for mobility, sensors, and artificial intelligence.
- Contribution is open to researchers of all nationalities.

## ABSTRACTED

- Science Citation Index Expanded
  - Scopus
  - Academic Search Complete
  - Inspec
-

# CONTENTS

|   |      |
|---|------|
| Triangular slotted ground plane: a key to realizing high-gain, cross-polarization-free microstrip antenna with improved bandwidth ..... | 1559 |
| <b>Abhijyoti GHOSH, Banani BASU</b>   |      |
| Invisible watermarking framework that authenticates and prevents the visualization of anaglyph images for copyright protection .....    | 1571 |
| <b>David-Octavio MUÑOZ-RAMIREZ, Volodymyr PONOMARYOV, Rogelio REYES-REYES, Clara CRUZ-RAMOS, Beatriz P. GARCIA-SALGADO</b>              |      |
| Efficient features for smartphone-based iris recognition .....  | 1589 |
| <b>Ritesh VYAS, Tirupathiraju KANUMURI, Gyanendra SHEORAN, Pawan DUBEY</b>  |      |
| Combined feature compression encoding in image retrieval .....  | 1603 |
| <b>Lu HUO, Leijie ZHANG</b>   |      |
| Domain adaptation on graphs by learning graph topologies: theoretical analysis and an algorithm .....                                   | 1619 |
| <b>Elif VURAL</b>   |      |
| Plant disease and pest detection using deep learning-based features .....   | 1636 |
| <b>Muammer TÜRKÖĞLU, Davut HANBAY</b>   |      |
| A joint image dehazing and segmentation model .....   | 1652 |
| <b>Haider ALI, Awal SHER, Nosheen ZIKRIA, Lavdie RADA</b>   |      |
| A hybrid of tropical-singular value decomposition method for salt and pepper noise removal .....  | 1667 |
| <b>Achmad ABDURRAZZAQ, Ismail MOHD, Ahmad Kadri JUNOH, Zainab YAHYA</b>   |      |
| Efficient hierarchical temporal segmentation method for facial expression sequences .....   | 1680 |
| <b>Jiali BIAN, Xue MEI, Yu XUE, Liang WU, Yao DING</b>  |      |
| Can additional spectral bands be estimated from aerial color images? .....  | 1696 |
| <b>Muhammet Ali DEDE, Erchan APTOULA, Yakup GENÇ</b>  |      |
| Optimized bilevel classifier for brain tumor type and grade discrimination using evolutionary fuzzy computing .....                     | 1704 |
| <b>Kavitha SRINIVASAN, Mohanavalli SUBRAMANIAM, Bharathi BHAGAVATHSINGH</b>   |      |
| An efficient retrieval algorithm of encrypted speech based on inverse fast Fourier transform and measurement matrix .....               | 1719 |
| <b>Qiuyu ZHANG, Zixian GE, Liang ZHOU, Yongbing ZHANG</b>   |      |
| Low-cost multiple object tracking for embedded vision applications .....  | 1737 |
| <b>M. Imran SHEHZAD, Fazal Wahab KARAM, Shoaib AZMAT</b>  |      |
| A novel algorithm for frequency extraction of ABS signals by using DTDNNs .....   | 1752 |
| <b>Mohammad Ali SHAFIEIAN, Hamed BANIZAMAN, Shahrzad SEDAGHAT</b>   |      |
| Classification of the likelihood of colon cancer with machine learning techniques using FTIR signals obtained from plasma .....         | 1765 |
| <b>Suat TORAMAN, Mustafa GİRGIN, Bilal ÜSTÜNDAĞ, İbrahim TÜRKÖĞLU</b>   |      |
| A hybrid sentiment analysis method for Turkish .....  | 1780 |
| <b>Buket ERŞAHİN, Özlem AKTAŞ, Deniz KILINÇ, Mustafa ERŞAHİN</b>  |      |
| Key word extraction for short text via word2vec, doc2vec, and textrank .....  | 1794 |
| <b>Jun LI, Guimin HUANG, Chunli FAN, Zhenglin SUN, Hongtao ZHU</b>  |      |

|  |      |
|--|------|
| Extending a sentiment lexicon with synonym–antonym datasets: SWNetTR++ .....   | 1806 |
| <b>Fatih SAĞLAM, Burkay GENÇ, Hayri SEVER</b>  |      |
| Automatic landing of a low-cost quadrotor using monocular vision and Kalman filter in GPS-denied environments .....                        | 1821 |
| <b>Mohammad Fattahi SANI, Maryam SHOARAN, Ghader KARIMIAN</b>  |      |
| A process-tolerant low-power adder architecture for image processing applications .....  | 1839 |
| <b>Bharat GARG, G. K. SHARMA</b>   |      |
| High-efficiency design of a grid-connected PV inverter based on interleaved flyback converter topology .....                               | 1855 |
| <b>Bünyamin TAMYÜREK, Bilgehan KIRIMER</b>   |      |
| Design of a portable and low-cost mass-sensitive sensor with the capability of measurements on various frequency quartz tuning forks ..... | 1871 |
| <b>Mehmet Altay ÜNAL, İsmail Cengiz KOÇUM, Dilek ÇÖKELİLER SERDAROĞLU</b>  |      |
| Hydrogen production system with fuzzy logic-controlled converter .....   | 1885 |
| <b>Salih NACAR, Selim ÖNCÜ</b>   |      |
| InGaN/GaN tandem solar cell parameter estimation: a comparative study .....  | 1896 |
| <b>Abdelmoumene BENAYAD, Smail BERRAH</b>  |      |
| Channel estimation for OFDM-IM systems .....   | 1908 |
| <b>Yusuf ACAR, Sultan ALDIRMAZ ÇOLAK, Ertuğrul BAŞAR</b>   |      |
| Fast nonsingular terminal decoupled sliding-mode control utilizing time-varying sliding surfaces ...                                       | 1922 |
| <b>Ferhun YORGANCIOĞLU, Soydan REDİF</b>   |      |
| Performance comparison of optimization algorithms in LQR controller design for a nonlinear system .....                                    | 1938 |
| <b>Ümit ÖNEN, Abdullah ÇAKAN, İlhan İLHAN</b>  |      |
| Hybrid parliamentary optimization and big bang-big crunch algorithm for global optimization .....  | 1954 |
| <b>Soner KIZILOLUK, Ahmet Bedri ÖZER</b>   |      |
| Identifying preferred solutions in multiobjective combinatorial optimization problems .....  | 1970 |
| <b>Banu LOKMAN, Murat KÖKSALAN</b>   |      |
| A new failure protection algorithm for circuit breakers using the power loss of switching arc incidents .....                              | 1982 |
| <b>Behnam FEIZIFAR, Ömer USTA</b>  |      |
| Large-scale round-trip delay time analysis of IPv4 hosts around the globe .....  | 1998 |
| <b>Ali GEZER</b>   |      |
| Investigation on communication aspects of multiple swarm networked robotics .....  | 2010 |
| <b>Shahzad ALI, Zenib KHAN, Ahmad DIN, Mahmood ul HASSAN</b>   |      |
| Mobility and traffic-aware resource scheduling for downlink transmissions in LTE-A systems .....   | 2021 |
| <b>Önem YILDIZ, Radosveta Ivanova SOKULLU</b>  |      |
| A beaconing-based roadside services discovery protocol for vehicular ad hoc networks .....   | 2036 |
| <b>Kifayat ULLAH, Ali SAYYED, Muhammad Waqar AZIZ, Edson dos Santos MOREIRA</b>  |      |
| Novel node deployment scheme and reliability quantitative analysis for an IoT-based monitoring system .....                                | 2052 |
| <b>Yinghua TONG, Liqin TIAN, Jing LI</b>   |      |

|   |      |
|---|------|
| Queue length feedback-based solution of TCP Incast in data center networks .....  | 2068 |
| <b>Hasnain AHMED, Muhammad Junaid ARSHAD</b>  |      |
| Impact of the primary user on the secondary user blocking probability in cognitive radio sensor networks .....                                    | 2081 |
| <b>Mohammad Mehdi HASSANI, Reza BERANGI</b>   |      |
| On parameter adjustment of the fuzzy neighborhood-based clustering algorithms .....   | 2093 |
| <b>Fatma Günseli YAŞAR ÇIKLAÇANDIR, Gözde ULUTAGAY, Semih UTKU Efendi NASİBOV</b>   |      |
| A distributed measurement architecture for inferring TCP round-trip times through passive measurements .....                                      | 2106 |
| <b>Fatih ABUT</b>   |      |
| Evolutionary approaches for weight optimization in collaborative filtering-based recommender systems .....  | 2121 |
| <b>Sevgi YİĞİT SERT, Yılmaz AR, Erkan BOSTANCI</b>  |      |
| Particle swarm optimization-based collision avoidance .....   | 2137 |
| <b>Timur İNAN, Ahmet Fevzi BABA</b>   |      |
| A novel resource clustering model to develop an efficient wireless personal cloud environment .....   | 2156 |
| <b>Mohan KOWSIGAN, Palanisamy BALASUBRAMANIE</b>  |      |
| Task graph scheduling in the presence of performance fluctuations of computational resources .....  | 2170 |
| <b>Najmeh MALAKOUTIFAR, Hassan MOTALLEBI</b>  |      |
| Generation rescheduling using multiobjective bilevel optimization .....   | 2186 |
| <b>Kiran Babu VAKKAPATLA, Srinivasa Varma PINNI</b>   |      |
| Energy and economic assessment of major free cooling retrofits for data centers in Turkey .....   | 2197 |
| <b>Ozan GÖZCÜ, Hamza Salih ERDEN</b>  |      |
| Optimal rescheduling of real power to mitigate congestion using gravitational search algorithm .....  | 2213 |
| <b>Kaushik PAUL, Niranjana KUMAR, Shaligram AGRAWAL, Kamalendu PAUL</b>   |      |
| Automatic fault isolation and restoration of distribution system using JADE based Multi-Agents .....  | 2226 |
| <b>Indhumathi CHELLASWAMY, Joy Vasantha RANI SP</b>   |      |
| Evaluation of losses in a secondary-side controlled wireless battery charging system .....  | 2243 |
| <b>Fahri GÜRBÜZ, Tolga SÜRGEVİL, Mutlu BOZTEPE</b>  |      |
| Investigation of control of power flow by using phase shifting transformers: Turkey case study .....  | 2259 |
| <b>Erdi DOĞAN, Nuran YÖRÜKEREN</b>  |      |
| Assessing wind energy potential using finite mixture distributions .....  | 2276 |
| <b>Melih Burak KOCA, Muhammet Burak KILIÇ, Yusuf ŞAHİN</b>  |      |
| An analytical formula for selecting the feeding voltage and frequency in a TORUS-type nonslotted axial flux permanent magnet machine design ..... | 2295 |
| <b>Reza MIRZAHOSSEINI, Ahmad DARABI, Mohsen ASSILI</b>  |      |
| Vibration analysis of a novel magnetic-viscous nonlinear passive isolator via finite element simulation .....                                     | 2309 |
| <b>Ahmet MERAM, Ümit ÖNEN</b>   |      |
| Design of area-efficient IIR filter using FPPE .....  | 2321 |
| <b>Nallathambi RAMYARANI, Veerana SUBBIAH, Prabhakaran DEEPA</b>  |      |

|  |      |
|--|------|
| Monotone data modeling using rational functions .....  | 2331 |
| <b>Zoha TARIQ, Farheen IBRAHEEM, Malik Zawwar HUSSAIN, Muhammad SARFRAZ</b>                    |      |
| IFIT: an unsupervised discretization method based on the Ramer–Douglas–Peucker algorithm ..... | 2344 |
| <b>Alev MUTLU, Furkan GÖZ, Orhan AKBULUT</b>   |      |
| An ambient assisted living system for dementia patients .....                                  | 2361 |
| <b>Özgün YILMAZ</b>  |      |