ABSTRACT: Owing to advances in medicine, with the increase in the demands on clinical services, the need for quality enhancement of medical images has also increased. A variety of methods are available for medical images enhancement, but limitations are still present. In this paper, medical images are enhanced by using image fusion in the wavelet domain. This algorithm is based on the selection of a suitable wavelet basis, followed by fusion of the selected wavelet sub-bands and the final enhancement of the resulting image.

Key words: Wavelet transform, Medical image, Image fusion.
Modeling and Design of Controllers for Switched Reluctance Motor Based on Asymmetrical Γ-Source Inverters

Original Research, C15
Mehdizadehmoghadam SM and Hajizadeh M.

ABSTRACT: In this paper a power electronic converter on the basis of asymmetrical Γ-Source inverter has identified to control the Switched Reluctance Motor (SRM). The structure of the inverter is designed and simulated in MATLAB/ Simulink. The performance of the control system has been tested in MATLAB/simulink to prove the performance of the designed control system.

Keywords: Power Electronic Converter, Asymmetrical Γ-Source Inverter.
Path-finding in Multi-Agent, unexplored And Dynamic Military Environment Using Genetic Algorithm

Original Research, C16
Saeedvand S, Razavi SN, Ansaroudi F.

ABSTRACT :

Keywords:
Placement of Dispersed Generation with the Purpose of Losses Reduction and Voltage Profile Improvement in Distribution Networks Using Particle Swarm Optimization Algorithm

Original Research, C17
Yousefpoor K.

ABSTRACT: Optimal placement of dispersed generation in electrical distribution systems was carried out considering the voltage profile and losses at different positions and a position with no dispersed generation. The results indicated the competency of the proposed algorithm.

Keywords: Optimal Placement, Dispersed Generation, PSO Algorithm, Voltage Profile, Losses

A Compact Monopole Antenna for Wireless Applications

Original Research, C18
Jamalpoor R.

ABSTRACT: A tiny wideband microstrip-fed monopole antenna which includes of a radiating patch with two L-shaped notches and stubs was presented for wireless applications. The antenna was designed and analyzed using Ansoft HFSS and details of the proposed antenna design approach and measured results are also presented and discussed.

Keywords: Microstrip Antenna, Monopole, Wireless.
Modeling and Optimizing the Hardness of the Melted Zone in Submerged Arc Welding Process using Taguchi Method

Original Research, C19
Aghakhani M and Shahverdi Shahraki H.

ABSTRACT: Welding, as one of the most useful method for...
Discretization of Cuckoo Optimization Algorithm for Solving Quadratic Assignment Problems

Original Research, C20
Kazemi E and Dejam S.

ABSTRACT: Quadratic Assignment Problem (QAP) is one of the combinatorial optimization problems with a wide range of applications in various fields. In this paper, a novel approach for solving the QAP is proposed by discretizing the Cuckoo Optimization Algorithm (COA). The proposed algorithm, named Discrete Cuckoo Optimization Algorithm (DCOA), is designed to work on the discrete variables of the problem. The performance of the algorithm is evaluated through testing on several QAP benchmark instances. The results show that the DCOA is capable of finding high-quality solutions with reasonable computational effort.

Keywords: Quadratic Assignment Problem (QAP), Meta-Heuristic Algorithms, Discrete Cuckoo Optimization Algorithm (DCOA).