Medical Image Enhancement by Image Fusion in Wavelet Domain

Original Research, C14
Hojjati S. H., Hosseinzadeh M., Reihanian A.

ABSTRACT: Owing to advances in medicine, with the increase
Key words: Wavelet transform, Medical image, Image fusion...
ABSTRACT:
In this paper a power electronic converter on the basis of asymmetrical Γ-Source inverter has identified to control the Switched Reluctance Motor. The modeling and design of the control system have been presented. The performance of the proposed 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
Yousefpour K.

ABSTRACT:
Optimal placement of dispersed generation in electrical distribution systems was carried out considering the voltage profile and losses reduction. The objective is to determine the optimal 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 including a radiating patch with two L-shaped notches and stubs is presented. The antenna's parameters were optimized 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 permanent joint of components, is of great importance in industry. Among the parameters affecting weld hardness, the amount of the weld metal, composition of the weld metal and thickness of the weld layer have the most important effect on this characteristic. In this paper, the hardness of the melted zone was studied using Taguchi method. The results showed that, the amount of the weld metal and the thickness of the weld piece and thickness of magnesium oxide nanoparticles had respectively the highest impact on the hardness of melted zone.

Keywords: Submerged Arc Welding, Hardness of Melted Zone, Taguchi Method, Analysis of Variance, Optimization
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. In this paper, the authors propose a new approach for solving QAP by discretizing the Cuckoo Optimization Algorithm. The proposed method is tested on several QAP instances, and the results show its effectiveness.

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