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 incre...
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 been identified to control the Switched Reluctance Motor. In order to avoid non-linear behavior, a control strategy has been implemented to control the rotor flux. The performance of the designed 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

Yousefpour K.


ABSTRACT:
Optimal placement of dispersed generation in electrical distribution systems was carried out considering the voltage profile, losses and the operating security. A PSO algorithm was implemented to find 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

Jamalpoor R.


ABSTRACT:
A tiny wideband microstrip-fed monopole antenna which includes of a radiating patch with two L-shaped notches and stubs was proposed and tested. The measured results are 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 various parameters, the welding parameters are the most important factors in the process of welding. In this study, the effect of arc current, welding speed, welding tension, and the size of the welding 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.
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 about which research has been done in various optimization approaches. This paper represents the way of discretizing the Cuckoo optimization algorithm for solving the quadratic assignment problem.

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