ABSTRACT: Owing to advances in medicine, with the increase in demand for clinical services, quality enhancement of medical images is crucial. The proposed algorithm in this paper demonstrates significant improvement in image quality while effectively removing noise.

Key words: Wavelet transform, Medical image, Image fusion
In this paper a power electronic converter on the basis of asymmetrical Γ-Source inverter has been identified to control the Switched Reluctance Motor (SRM). 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

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. Several cases were considered to determine the optimal position for dispersed generation. A case of 45 buses with a position with dispersed generation 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 designed and fabricated. The measured results were in good agreement with the simulated results using Ansoft HFSS. The measured results are also presented.

Keywords: Microstrip Antenna, Monopole, Wireless.
ABSTRACT: Welding, as one of the most useful method for permanent joint of components, is of great importance in industry. Among the various methods of welding, submerged arc welding is the most common. In this method, the main factors that affect the hardness of the melted zone are the type of welding wire and the type of flux. The effect of various parameters on the hardness of the melted zone was studied by statistical regression model. The results showed that the type of welding wire and the type of flux had the most impact on the hardness of the melted zone. The regression equation obtained for describing the behavior of hardness of the melted zone was given. The hardness of the melted zone was optimized using the Taguchi method. The results showed that the hardness of the melted zone decreased when the type of welding wire and the type of flux were changed. The optimized value of the hardness of the melted zone, which was obtained from the Taguchi method, was found to be 128-134.

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 major optimization problems. In this paper, the authors have focused on the application of a Discretization of Cuckoo Optimization Algorithm (DCOA) to solve QAP. The results indicate that the proposed method is effective and efficient in solving QAP.

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