Path-Finding in Multi-Agent, Unexplored and Dynamic Military Environment Using Genetic Algorithm

Original Research, D1
Saeedvand S, Naser Razavi S and Ansaroudi F.
ABSTRACT: Path-finding in multi-agent, unexplored and dynamic military environment is one of the most important issues for solving ... necessary constraints to find path in a dynamic and unexplored environment are considered and Genetic algorithm is used.

Keywords: Multi-Agent System, Path-finding, Chromosome

PII: S232251141500002-4

Optimal Design of Bearingless Permanent Magnet-Type Synchronous Motors for Generating Maximum Levitation Force
Original Research, D2
Honarjou M., Faraji H. and Shirzadi A.

ABSTRACT: One maintenance task that still exist with conventional motors, are bearing lubrication and renewal. Bearingless motors are a solution to this problem. In this paper, the effect of thickness of permanent magnets (PM) of bearingless permanent magnet synchronous motor (BPMSM) in levitation force is studied. The levitation force and windings pole-pair in amount of levitation force is investigated. The simulation is done in Maxwell software.

Keywords: Bearingless Permanent Magnet Synchronous Motor, Maximum Levitation Force, Optimization, Thickness of PM.

PII: S232251141500003-4

Original Research, D3
Daryasafar N and Dehghani H.

ABSTRACT: Studying an improved interval-only algorithm for the de-interleaving of radar pulses in the electronic intelligence system (ELINT) in the process of identification radar signals are used both in technical and military applications, the performance of their block diagrams and implementations steps as well as their ability in de-interleaving of radar pulses are analyzed.

Studying an Improved Interval-Only Algorithm for the De-Interleaving of Radar Pulses
ABSTRACT: This contribution addresses forward kinematic solution of 2-(6UPS) Hybrid Manipulator based on Neural Network.
### Current Measurement with Optical Current Transformer

**ABSTRACT:**
Applying an optical current transformer (optical CT) to substations has several advantages, e.g. high accuracy and immunity to electromagnetic interference. The optical CT is designed to work with current-carrying conductors and utilizes optical fibers contained in an insulator. As an application of the optical CT, a new fault location system has been developed.

**Keywords:**
OCT, Fiber Optic, Current Sensor, Protection

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### Reliability Constrained Energy and Reserve Scheduling of Microgrids Including High Penetration...

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**PII:** S232251141500005-4

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**PII:** S232251141500006-4
ABSTRACT:

Due to environmentally and economically advantages, high deployment of renewable energy sources (RES) such as wind or solar power is expected. The energy sources are intermittent and the load is deterministic. Therefore, the requirement reserve is determined by a tradeoff between reliability and economics.

Keywords: Microgrids, renewable energy sources (RES), energy and reserve scheduling, expected energy not supplied (EENS).

PII: S232251141500007-4

Optimal Charge-Discharge Scheduling of Electric Vehicles Considering Their Battery Lifetime

ABSTRACT:

Due to environmentally and economically advantages, high deployment of renewable energy sources (RES) such as wind or solar power is expected. The energy sources are intermittent and the load is deterministic. Therefore, the requirement reserve is determined by a tradeoff between reliability and economics.

Keywords: Microgrids, renewable energy sources (RES), energy and reserve scheduling, expected energy not supplied (EENS).

PII: S232251141500008-4

Introducing a New High-Order Chaotic System with an Equilibrium Point and Stabilizing It Using LQR Controller

ABSTRACT:

In this paper, a new high-order chaotic system is proposed. This system has an equilibrium point on center and its local dynamics are analyzed. The Lyapunov exponent is used to determine the chaotic nature of the system. To stabilize the chaotic system, a Linear Quadratic Regulator (LQR) controller is applied.

Keywords: Chaotic System, High-Order Chaos, Lyapunov Exponent, Equilibrium Point, LQR Controller