

Contents

- 
1. Optimal Control with State Observer of Ship Electric Propulsion System Using Double Star Synchronous Machine 369-384
Habib Dallagi, Salmen Jaouidi and Samir Nejm
 2. Optimum Design of PSS and SVC Controller for Damping Low Frequency Oscillation (LFO) 385-393
A. Mohamadi Jahandizi and S. Ali Ghafalebashi
 3. Forward and Inverse Kinematic analysis of a spatial tensegrity mechanism with translational degrees of freedom 395-404
Rasool Jahromy
 4. Design and Control with Improved Predictive Algorithm for Obstacles Detection for Two Wheeled Mobile Robot Navigation 405-422
Sabri M. Ben Mansour, V. Sundarapandian and Saber M. Naceur
 5. Modeling and Experimental Investigation of Grid-Connected PWM Rectifier 423-433
K. Fahem, D. Chariaq and L. Sbita
 6. Modeling and Simulation of Energy Conversion System Used in Electric Vehicle 435-451
S. Farhani, M. Amari and F. Bacha
 7. Quadrotor Unmanned Aerial Vehicle, Dynamics and Control Strategy for Tracking a Desired Trajectory 453-466
Salah Nasr, Kais Bouallegue, Hassen Mekki and Sundarapandian Vaidyanathan
 8. Optimal Sizing of Stand-Alone Hybrid PV-Diesel-Battery System Using PSO and the e-Constraint Method 467-478
F. Fodhil, A. Hamidat and O. Nadjem
 9. Mathematical Model of an Azimuthal-Elevation Tracking System of Small Scale Heliostat 479-488
M. Debbache, A. Takilalte, O. Mahfoud, H. Karoua, S. Bouaichaoui, M. Laissaoui and A. Hamidat
 10. Study and Design of a Mobile Solar Refrigerator Isolated by Ecological Materials 489-500
S. Saïr, A. Oushabi, O. Tanane, Y. Abboud, I. Bih, M. Bouhamidi and A. El Bouari
 11. The Performance Study of Parabolic Trough Concentrator Using a New RT3D-4R Method 501-507
Houcine Ahlem, Maatallah Taher, El Alimi Souheil and Ben Nasrallah Sassi
 12. 3D Simulation Study of a Receiver on a Solar Power Tower 509-516
M. Hazmoune, B. Aour, A. Bouhallassa, S. Lecheheb, M. Laissaoui, A. Hamidat
 13. Modeling, Identification and Control of Nonlinear System Based on Adaptive Particle Swarm Optimization 517-531
Jaouher Chroua, Wael Chakchouk, Abderrahmen Zaafouri and Mohamed Jemli

14. A New Image Encryption Using Chaotic Attractor with Bounded Function	533-546
<i>Nahed Aouf Souayed, Kais Bouallegue, Nabil Ben Slimane, Mohsen Machhout</i>	
15. Robust Backstepping MPPT for Photovoltaic System	547-556
<i>Noureddine Benbaha, E. Zidani, M. S. Nait Said, S. Boukebbous and H. Ammar</i>	
16. Assessment of SVC in Improving Power System Stability	557-569
<i>Hajer Jmii, Asma Meddeb and Souad Chebbi</i>	
17. Response Dynamic Study of Various Components of a Diffusion Absorption Refrigerator Machine	571-580
<i>Radhouane Ben Jemaa, Rami Mansouri, Ismail Boukholda and Ahmed Bellagi</i>	
18. Hydrodynamic Model of an Anaerobic Reactor	581-589
<i>Maha Hmissi, Jérôme Harmand and Hedi Shayeb</i>	
19. Study of Using Waste Heat of a Sulfuric Acid Plant to Concentrate the Phosphoric Acid	591-600
<i>Chouacibi Fathia, Mabrouk Aicha, Salem Rania, Draouil Khaled, Belghateb Jalel and Hajji Nejib</i>	
20. Study of Optimal Conditions of a Palm Waste Fixed Bed Gasifier for Power Generation	601-606
<i>Manel Dahmani, Christelle Périllon, Christophe Marvillet, Noureddine Hajjaji, Ammar Houas, Zouhour Khila</i>	
21. The Acting Effects on the System Response Time for Three Types of Nanofluids, Carbon Nanoparticle-based-water, Metal Nanoparticles-water and Metal Oxide Nanoparticles-water	607-619
<i>Mefteh Bouhaleb and Hassen Abbassi</i>	
22. Face Region Detection Using Skin Region Properties	621-628
<i>Kenz A. Bozed, Ali Mansour and Osei Adjei</i>	
23. Hybrid Synchronization of Identical Hyperchaotic Systems via Novel Sliding Control with Application to Hyperchaotic Vaidyanathan-Volos System	629-646
<i>S. Sivaperumal</i>	
24. Performance Evaluation and Computer Simulation of Multipath Transmission Control Protocol	647-658
<i>Taha Arabi, Kenz A. Bozed and Amer Ragab Zerek</i>	
25. Entropy Generation in Cu-Water Nanofluid in a Cavity with Chamfer in the Presence of Magnetic Field	659-666
<i>Souad Marzougui, Ammar Ben Brahim and Mourad Magherbi</i>	
26. Effects of Magnetic Field on the Energetic Behaviors of Excitons in Hybrid Organic-Inorganic Parabolic Quantum Dots	667-673
<i>Rym Ridene, Nouha Mastour, Douha Gemra, and Habib Bouchriha</i>	
27. Dynamic Model for Wind Farms with Fixed Speed Induction Machine: Case Study of Wind Farms of Sidi-Daoud in Tunisia	675-690
<i>R. Karoui, H. Khadraoui and F. Bacha</i>	
28. Optimization of TSK Fuzzy Model Using New Improved PSO	691-701
<i>Lamine Brikh, Ouahib Guenounou, Fatah Yahiaoui, Mohand akli Kacimi and Ahmed Oualet</i>	
29. Measured Solar Radiation on Inclined Surface, in South West of Tunisia	703-710
<i>N. Khalifa, F. Ahmadi, T. Khir and A. Ben Brahim</i>	

30. Slotted Multiband PIFA antenna with Slotted Ground Plane for Wireless Mobile Applications 711-718
Layla Wakrim, Saida Ibnyaich and Moha M'Rabet Hassani
31. Optimal Fuzzy MPPT Control based PSO Algorithm for Photovoltaic System 719-731
Fatah Yahiaoui, Ouahib Guenourou, Lamine Brikh, Mohand-Akli Kacimi and Ahmed Ouaret
32. Dynamics, Adaptive Backstepping Control and Circuit Implementation of Sprott MO_5 Chaotic System 733-750
A. Sambus, M. Mamat and M. Sanjaya W.S.
33. Chaos Suppression for a Fourth Order Memristor Chaotic Oscillator with Uncertain Parameters 751-762
Karthikeyan Rajagopal, and Anitha Karthikeyan
34. A Novel Strategy of Differential Evolution Algorithm's Crossover Operator Based on Graylevel Clusters Similarity for Automatic Multilevel Image Thresholding 763-777
Khoirul Umam, Agus Zainal Arifin and Dini Adni Navustara
35. Design of Discrete-Time High Gain Adaptive Observer for Nonlinear Systems with Application to a Bioreactor Process 779-790
A. Ghanmi S. Hajji S. Kamoun and S. Vaidyanathan
36. A Single Neuron PID Controller Based PMSM DTC Drive System Fed by Fault Tolerant 4-Switch 3-Phase Inverter 791-798
Mina Nazifi