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Performance Integral Criteria Improve based on Taguchi MPSO for Highly Interacting MIMO System

Prakash Pithadiya and Vipul Shah

Abstract—In this paper proposed MPSO methods for nonlinear complex processes. These processes are implemented in various process control industries, Design and development of new controller to increase the better stability and improve the performance index. This paper goal the minimize parameters for process controller by Taguchi method combined mutation particle swarm optimization algorithm for industrial laboratory highly complex nonlinear QTS. Analysis of means techniques analyses the meaning of means which are effectively different from the output responses combined means to detect nearer values of PID controller parameters while ANOVA method determines the two most effective parameters with the response of Quadruple tanks system. The result shows that TMPSO technique is provided the good result when compared with other approaches. The TMPSO techniques use for setting controller offers enhanced process specification such as better time domain specifications, smooth error reference tracking, remove the coupling effect and minimization of error in the nonlinear

Face Recognition Using Hybrid Local Descriptors for Automated Multiface Attendance System

M. Sowmiya and Dr.V.Jayarama Pradeep

Abstract: The assignment offers an automated attendance machine based on face reputation the usage of discriminative sturdy nearby binary sample and local directional sample descriptors. The proposed system includes face detection, Features extraction and matching. The face detection is to locate faces based totally on Viola Jones algorithm the use of imaginative and prescient toolbox. In feature extraction stage, the discriminative sturdy nearby binary sample is used for exclusive object texture and part contour function extraction method. A DRLDP operator computes the threshold reaction values in all eight instructions at every pixel function and generates a code from the relative strength importance. The proposed capabilities maintain the assessment facts of image styles. These functions are beneficial to differentiate the maximum variety of samples accurately and it's miles matched with already saved picture samples for man or woman verification. The simulated results can be shown that used methodologies have higher discriminatory electricity and reputation accuracy in comparison with prior processes.

Stability Analysis and Closed loop Current Control for Grid Interacted 3-Ø Voltage Source Inverter

P.Vinod kumar, K .Vijay Kumar and G.Jagadeesh

Abstract— The main objective of this work is to analyze Stability and Closed loop Current control of 3-Ø Voltage source Inverter by using bode plot technique and Particular Integral (PI) Current control under the changes in grid impedance (its Depends on load). The stability of the Distribution system is analyzed by developing closed loop minor loop gain, and it is Stable when pc gc (Gain Margin = +ve, Phase Margin = +ve) and Unstable when pc gc (Gain Margin = -ve, Phase Margin