Basic Information :

Name :	MOHAMED ABDELBAR SHAMSELDIN ALY
Title :	Associate Professor

Dr. Shamseldin obtained the Bachelor of mechatronics engineering in 2010 from faculty of engineering, Helwan University, Cairo, Egypt. In 2016, he obtained the M.Sc. in system automation from faculty of engineering, Helwan University, Cairo, Egypt. In 2020, he obtained the Ph.D. in Mechatronics Engineering from faculty of engineering , Helwan University, Cairo, Egypt. Also, Mohamed was a member of mobility staff to teach in summer course in University of Central Lancashire, Preston, UK.

Education:

Certificate	Major	University	Year
PhD	Mechatronics Engineering		2020
Masters	System Automation and Management Engineering	Helwan university- Faculty Of Engineering	2016
Bachelor	Mechanical Department	Helwan University - Faculty of Engineering	2010

Teaching Experience:

Name Of Organization	Position	From Date	To Date
FUE	Associate Professor	01/10/2024	Current

Researches / Publications :

Performance Enhancement of an Electricï Windï Vehicle with Smart Switching Circuit and Modified Sliding Mode Control
Optimal TID Tracking Control for Industrial Delta Robot Based on Harmony search
Design and Control of Delta Robot (mini review)
A Low-Cost High Performance Electric Vehicle Design Based on Variable Structure Fuzzy PID Control
Real-time Inverse Dynamic Deep Neural Network Tracking Control for Delta Robot Based on a COVID-19 Optimization
A New Self-Tuning Nonlinear PID Motion Control for One-Axis Servomechanism with Uncertainty Consideration
Design of Auto-Tuning Nonlinear PID Tracking Speed Control for Electric Vehicle with Uncertainty Consideration
Fuzzy type two self-tuning technique of single neuron PID controller for brushless DC motor based on a COVID-19 optimization
Performance Comparison of Several Control Algorithms for Tracking Control of Pantograph Mechanism
Design variable structure fuzzy control based on deep neural network model for servomechanism drive system
A New Design Identification and Control Based on GA Optimization for An Autonomous Wheelchair
Adaptive Controller with PID, FOPID, and NPID Compensators for Tracking Control of Electric ï Wind Vehicle
Optimal Flower Pollination Based Nonlinear PID Controller for Pantograph Robot Mechanism
Model reference self-tuning fractional order PID control based on for a power system stabilizer
Parallel distribution compensation PID based on Takagi-Sugeno fuzzy model applied on Egyptian load frequency control
Practical Implementation of an Enhanced Nonlinear PID Controller Based on Harmony Search for One-Stage Servomechanism System
Modelling and control of solar driven humidificationï dehumidification desalination plant
Real-time implementation of an enhanced nonlinear PID controller based on harmony search for one-stage servomechanism system

A New Model Reference Self-Tuning Fractional Order PD Control for One Stage Servomechanism System
A Novel Self-Tuning Fractional Order PID Control Based on Optimal Model Reference Adaptive System
Brushless DC Motor Tracking Control Using Self-tuning Fuzzy PID control and Model Reference Adaptive Control
A Novel Fuzzy Self Tuning Technique of Single Neuron PID Controller for Brushless DC Motor
Different techniques of self-tuning FOPID control for Brushless DC Motor
Implementation of Self-Tuning Fuzzy PID Control Applied on Brushless DC Motor
A Modified Model Reference Adaptive Controller for Brushless DC Motor
Practical Implementation of GA-Based PID Controller for Brushless DC Motor
Speed Control of BLDC Motor By Using PID Control and Self-tuning Fuzzy PID Controller
A Low-Cost High Performance Electric Vehicle Design Based on Variable Structure Fuzzy PID Control
Optimal TID Tracking Control for Industrial Delta Robot Based on Harmony search
Design and Control of Delta Robot
Other :
A Modified Model Reference Adaptive Control for High-Performance Pantograph Robot Mechanism
Optimal Covid-19 Based PD/PID Cascaded Tracking Control for Robot Arm driven by BLDC Motor
Optimal Coronavirus Optimization Algorithm Based PID Controller for High Performance Brushless DC Motor