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| ▼ الاسم المستخدم في نشر البحوث حسب الكوكل سكولر Assist. Prof. Dr. Nizar Hadi Abbas أ.م.د. نزار هادي عباس | |
| ▼ الاتجاهات البحثية  * سيطرة متقدمة, سيطرة مثلى, طرق مثلى حديثة , النمذجة والسيطرة على الربوت | |
| ▼ الدرجة العلمية أستاذ مساعد | |
| ▼ الأبحاث المنشورة  * Omar Waleed Abdulwahhab, and Nizar Hadi Abbas, “Design and Stability Analysis of a Fractional Order State Feedback Controller for Trajectory Tracking of a Differential Drive Robot”, *International Journal of Control, Automation, and Systems (IJCAS)*, vol. 16, no. 6, pp. 2790-2800, Nov. 2018. * Nizar Hadi Abbas, and Ahmed Ramz Sami, “Tuning of PID Controllers for Quadcopter System using Cultural Exchange Imperialist Competitive Algorithm”, *Journal of Engineering*, vol. 24, no. 2, pp. 80-99, Feb. 2018. * Ruba Al-Mula Humadi, Nizar Hadi Abbas, and Mohanad Azeez Joodi, “Optimum Design of Power System Stabilizer based on Improved Ant Colony Optimization Algorithm”, *Journal of Engineering*, vol. 24, no. 1, pp. 123-145, Jan. 2018. * Omar Waleed Abdulwahhab, and Nizar Hadi Abbas, “A New Method to Tune a Fractional-Order PID Controller for a Twin Rotor Aerodynamic System”, *Arabian Journal for Science and Engineering*, vol. 42, no. 12, pp. 5179-5189, Dec. 2017. * Omar Waleed Abdulwahhab, and Nizar Hadi Abbas, “A New Analytic Method to Tune a Fractional Order PID Controller”, *Journal of Engineering*, vol. 23, no. 12, pp. 1-12, Dec. 2017. * Nizar Hadi Abbas, and Ahmed Ramz Sami, “Nonlinear PID Tuning for Quadcopter System with Cultural Exchange Imperialist Competitive Algorithm”, *2017 Second Al-Sadiq International Conference on Multidisciplinary in IT and Communication and Applications (2nd-AIC-MITC'17), IEEE* Scientific sponsored conference, Baghdad, Iraq, Dec. 10-11, 2017. * Nizar Hadi Abbas, and Jaafar Ahmed Abdulsaheb, “An Adaptive Multi-Objective Artificial Bee Colony Algorithm for Multi-Robot Path Planning”, *Association of Arab Universities Journal of Engineering Sciences*, vol. 24, no. 3, pp. 168-189, 2017. * Nizar Hadi Abbas, and Ahmed Ramz Sami, “Tuning of PID Controllers for Quadcopter System using Hybrid Memory based Gravitational Search Algorithm-Particle Swarm Optimization”, *International Journal of Computer Applications*, vol. 172, no. 4, pp. 9-18, Aug. 2017. * Omar Waleed Abdulwahhab, and Nizar Hadi Abbas, “Design of a Fractional Order Sliding Mode Controller for Twin Rotor Aerodynamic System”, *7th Scientific Engineering and 1st International Conference on Recent Trends in Engineering Sciences and Sustainability (1stIJRTESS-2017 )*, University of Baghdad, College of Engineering, Baghdad, Iraq, 17-18 May, 2017. * Nizar Hadi Abbas, and Jaafar Ahmed Abdulsaheb, “An Adaptive Multi -Objective Particle Swarm Optimization Algorithm for Multi - Robot Path Planning ”, *Journal of Engineering*, vol. 22, no. 7, pp. 164-181, 2016. * Nizar Hadi Abbas, and Farah Mahdi Ali, “Path Planning of an Autonomous Mobile Robot using Enhanced Bacterial Foraging Optimization Algorithm”, *Al-Khwarizmi Engineering Journal*, vol. 12, no. 4, pp. 26-35, 2016. * Nizar Hadi Abbas, and Basma Jumhaa Salih, “Design of a Kinematic Neural Controller for Mobile Robots based on Enhanced Hybrid Firefly-Artificial Bee Colony Algorithm”, *Al-Khwarizmi Engineering Journal*, vol. 12, no. 1, pp. 45-60, 2016. * Nizar Hadi Abbas, and Basma Jumhaa Salih, “Trajectory Tracking Controllers for Mobile Robot: Modeling, Design, and Optimization”, *LAP Lambert Academic Publishing*, 2016. * Nizar Hadi Abbas, and Farah Mahdi Ali, “Path Planning of an Autonomous Mobile Robot using Directed Artificial Bee Colony Algorithm”, *International Journal of Computer Applications*, vol. 96, no. 11, pp. 11-16, June 2014. * Nizar Hadi, and Haitham Saadoon, “Quantum Artificial Bee Colony Algorithm for Numerical Function Optimization”, *International Journal of Computer Applications*, vol. 93, no. 9, pp. 28-33, May 2014. * Nizar Hadi and Ruba Al-Mula, “Load Flow Computation of Power System with SVC using Improved PSO Algorithms”, *In Proceedings of International Conference on Control, Communication and Power Engineering (CCPE) and in Elsevier,* Chennai, India, pp. 175-187, 27-29 Feb., 2014. * Nizar Hadi, Tarik Zeyad, and Rassim Nooraldin, “Optimization of Energy Consumption in Wireless Sensor Networks based on Nature-Inspired Algorithms”, *International Journal of Computer Applications*, vol. 77, no. 14, pp. 32-39, Sept. 2013. * Ruba Al-Mula, Nizar Hadi, and Wameedh Hammadi, “PID Parameters Optimization using Adaptive PSO Algorithm for a DCSM Position Control”, *International Journal of Electrical Engineering and Technology (IJEET)*, vol. 4, no. 4, pp. 01-13, July-August 2013. * Nizar Hadi and Ruba Al-Mula, “Power System Stability Enhancement using SVC with Modified PSO Tuned PID Controller”, *International Journal of Computer Applications*, vol. 71, no. 3, pp. 15-22, May 2013.. * Nizar H. 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