

Theme 1-1: Robotics and Intelligent Autonomous Systems - 2020

Title	Authors	Scopus Source title	Volume	Issue	Pages	Source type	Publication type	Open Access
Wireless Charging of an Autonomous Drone	Raveendhra, D. Mahdi, M. Hakim, R. Dhaouadi, R. Mukhopadhyay, S. Qaddoumi, N.	Proceedings - 2020 6th International Conference on Electric Power and Energy Conversion Systems, EPECS 2020	-	-	7-12	Conference Proceeding	Conference Paper	
Deep learning sensor fusion for autonomous vehicle perception and localization: A review	Fayyad, J. Jaradat, M.A. Gruyer, D. Najjaran, H.	Sensors (Switzerland)	20	15	1-34	Journal	Review	Gold Green
Deep-learning-based neural network training for state estimation enhancement: Application to attitude estimation	Al-Sharman, M.K. Zweiri, Y. Jaradat, M.A.K. Al-Husari, R. Gan, D. Seneviratne, L.D.	IEEE Transactions on Instrumentation and Measurement	69	1	24-34	Journal	Article	Green
A Hybrid Estimation-Based Technique for Partial Discharge Localization	Avzayesh, M. Abdel-Hafez, M.F. Al-Masri, W.M.F. Alshabi, M. El-Hag, A.H.	IEEE Transactions on Instrumentation and Measurement	69	11	8744-8753	Journal	Article	Hybrid gold
Inertial Navigation System of Pipeline Inspection Gauge	Al-Masri, W.M.F. Abdel-Hafez, M.F. Jaradat, M.A.	IEEE Transactions on Control Systems Technology	28	2	609-616	Journal	Article	
Genetic Algorithm Coupled with the Krawczyk Method for Multi-Objective Design Parameters Optimization of the 3-UPU Manipulator	El Hraiech, S. Chebbi, A.H. Affi, Z. Romdhane, L.	Robotica	38	6	1138-1154	Journal	Article	
Low-Cost Reduced Navigation System for Mobile Robot in Indoor/Outdoor Environments	Al Khatib, E.I. Jaradat, M.A.K. Abdel-Hafez, M.F.	IEEE Access	8	-	25014-25026	Journal	Article	Gold
Design of lightweight aerial manipulator with a cog compensation mechanism	Abuzayed, I. Itani, A.R. Ahmed, A. Alkharaz, M. Jaradat, M.A. Romdhane, L.	2020 Advances in Science and Engineering Technology International Conferences, ASET 2020	-	-	-	Conference Proceeding	Conference Paper	
Optimal Design of a Rehabilitation Four Cable-Driven Parallel Robot for Daily Living Activities	Ennaiem, F. Chaker, A. Arévalo, J.S.S. Laribi, M.A. Bennour, S. Mlika, A. Romdhane, L. Zeghloul, S.	Mechanisms and Machine Science	84	-	3-12	Book Series	Conference Paper	
Indoor navigation system of Omni-directional mobile robot based on static obstacles avoidance	Ali, S. Khasawneh, Q.A. Jaradat, M.A. Alramlawi, M.Y.	International Review of Automatic Control	13	1	27-37	Journal	Article	
Novel Safety Criterion for Synthesis of Cable Driven Parallel Robots	Ben Hamida, I. Laribi, M.A. Mlika, A. Romdhane, L. Zeghloul, S. Carbone, G.	Mechanisms and Machine Science	84	-	112-120	Book Series	Conference Paper	
Design-to-Workspace Synthesis of a Cable Robot Used in Legs Training Machine	Lamine, H. Romdhane, L. Saafi, H. Bennour, S.	Robotica	38	9	1703-1714	Journal	Article	