

# Theme 1-1: Robotics and Intelligent Autonomous Systems - 2021

Title	Authors	Scopus Source title	Volume	Issue	Pages	Source type	Publication type	Open Access
Autonomous Landing of a Quadrotor with Wireless Charging	Aljasmi, A.   Yagmour, A.   Almatrooshi, O.   Dhaouadi, R.   Mukhopadhyay, S.   Qaddoumi, N.	Advances in Intelligent Systems and Computing	1289	-	830-846	Book Series	Conference Paper	
Multi-Objective optimal design of a cable driven parallel robot for rehabilitation tasks	Ben Hamida, I.   Laribi, M.A.   Mlika, A.   Romdhane, L.   Zegloul, S.   Carbone, G.	Mechanism and Machine Theory	156	-	-	Journal	Article	Bronze   Green
The smooth variable structure filter: A comprehensive review	Avzayesh, M.   Abdel-Hafez, M.   AlShabi, M.   Gadsden, S.A.	Digital Signal Processing: A Review Journal	110	-	-	Journal	Review	Hybrid gold
Dimensional Synthesis and Performance Evaluation of Four Translational Parallel Manipulators	Ben Hamida, I.   Laribi, M.A.   Mlika, A.   Romdhane, L.   Zegloul, S.	Robotica	39	2	233-249	Journal	Article	
RRT*N: an efficient approach to path planning in 3D for Static and Dynamic Environments	Mohammed, H.   Romdhane, L.   Jaradat, M.A.	Advanced Robotics	35	3-4	168-180	Journal	Article	
Alleviating Dynamic Model Uncertainty Effects for Improved Battery SOC Estimation of EVs in Highly Dynamic Environments	Wadi, A.   Abdel-Hafez, M.   Hussein, A.   Alkhwaja, F.	IEEE Transactions on Vehicular Technology	70	7	6554-6566	Journal	Article	
Task-based design approach: Development of a planar cable-driven parallel robot for upper limb rehabilitation	Ennaiem, F.   Chaker, A.   Laribi, M.A.   Sandoval, J.   Bennour, S.   Mlika, A.   Romdhane, L.   Zegloul, S.	Applied Sciences (Switzerland)	11	12	-	Journal	Article	Gold
Sensitivity based selection of an optimal cable-driven parallel robot design for rehabilitation purposes	Ennaiem, F.   Chaker, A.   Arévalo, J.S.S.   Laribi, M.A.   Bennour, S.   Mlika, A.   Romdhane, L.   Zegloul, S.	Robotics	10	1	1-16	Journal	Article	Gold
Daily life activities analysis for rehabilitation purposes	Ennaiem, F.   Chaker, A.   Laribi, M.A.   Sandoval, J.   Bennour, S.   Mlika, A.   Romdhane, L.   Zegloul, S.	Mechanisms and Machine Science	93	-	290-297	Book Series	Conference Paper	
On the Optimal Design of LAWEX for a Safe Upper Arm Rehabilitation Exercising	Hamida, I.B.   Laribi, M.A.   Mlika, A.   Romdhane, L.   Zegloul, S.   Carbone, G.	Mechanisms and Machine Science	103	-	313-321	Book Series	Conference Paper	
Quadrotor Attitude Dynamics Identification Based on Nonlinear Autoregressive Neural Network with Exogenous Inputs	Avdeev, A.   Assaleh, K.   Jaradat, M.A.	Applied Artificial Intelligence	35	4	265-289	Journal	Article	
Quasi-Continuous Second Order Sliding Mode Control of Revolute-Revolute Manipulator with Noisy Feedback Signals & Modelling Uncertainties	Hatamleh, K.S.   Jaradat, M.A.   Younes, A.B.   Al-Shabi, M.   Hafez, O.A.	Journal of Intelligent and Robotic Systems: Theory and Applications	103	2	-	Journal	Article	
A Reconfigurable 6-DoF Cable-Driven Parallel Robot with an Extended Rotational Workspace	Ennaiem, F.   Chaker, A.   Laribi, M.A.   Sandoval, J.   Bennour, S.   Mlika, A.   Romdhane, L.   Zegloul, S.	Mechanisms and Machine Science	103	-	322-331	Book Series	Conference Paper	