

K H Low

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/426210/publications.pdf>

Version: 2024-02-01

204
papers

3,301
citations

172457

29
h-index

233421

45
g-index

206
all docs

206
docs citations

206
times ranked

2051
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Locomotion Control of a Biomimetic Underwater Vehicle With Fin Propulsion. IEEE/ASME Transactions on Mechatronics, 2012, 17, 25-35.	5.8	231
2	Biomimetic Motion Planning of an Undulating Robotic Fish Fin. JVC/Journal of Vibration and Control, 2006, 12, 1337-1359.	2.6	136
3	Gait study and pattern generation of a starfish-like soft robot with flexible rays actuated by SMAs. Journal of Bionic Engineering, 2014, 11, 400-411.	5.0	102
4	Cooperative Path Planning for Heterogeneous Unmanned Vehicles in a Search-and-Track Mission Aiming at an Underwater Target. IEEE Transactions on Vehicular Technology, 2020, 69, 6782-6787.	6.3	95
5	A Lagrangian Formulation of the Dynamic Model for Flexible Manipulator Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1988, 110, 175-181.	1.6	88
6	Parametric study of the swimming performance of a fish robot propelled by a flexible caudal fin. Bioinspiration and Biomimetics, 2010, 5, 046002.	2.9	85
7	Effective Phase Tracking for Bioinspired Undulations of Robotic Fish Models: A Learning Control Approach. IEEE/ASME Transactions on Mechatronics, 2014, 19, 191-200.	5.8	71
8	Perspectives on biologically inspired hybrid and multi-modal locomotion. Bioinspiration and Biomimetics, 2015, 10, 020301.	2.9	68
9	A starfish robot based on soft and smart modular structure (SMS) actuated by SMA wires. Bioinspiration and Biomimetics, 2016, 11, 056012.	2.9	64
10	Robot-assisted gait rehabilitation: From exoskeletons to gait systems. , 2011, , .		63
11	An individual-specific gait pattern prediction model based on generalized regression neural networks. Gait and Posture, 2014, 39, 443-448.	1.4	53
12	Risk Assessment Model for UAV Cost-Effective Path Planning in Urban Environments. IEEE Access, 2020, 8, 150162-150173.	4.2	52
13	Locomotive Control of a Wearable Lower Exoskeleton for Walking Enhancement. JVC/Journal of Vibration and Control, 2006, 12, 1311-1336.	2.6	48
14	Design and Implementation of a Lightweight Bioinspired Pectoral Fin Driven by SMA. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1773-1785.	5.8	43
15	Conflict-free four-dimensional path planning for urban air mobility considering airspace occupancy. Aerospace Science and Technology, 2021, 119, 107154.	4.8	42
16	Locomotion and depth control of robotic fish with modular undulating fins. International Journal of Automation and Computing, 2006, 3, 348-357.	4.5	40
17	Swarm-Based 4D Path Planning For Drone Operations in Urban Environments. IEEE Transactions on Vehicular Technology, 2021, 70, 7464-7479.	6.3	40
18	Computational research on modular undulating fin for biorobotic underwater propulsor. Journal of Bionic Engineering, 2007, 4, 25-32.	5.0	39

#	ARTICLE	IF	CITATIONS
19	Adaptive Visual Servoing of Unmanned Aerial Vehicles in GPS-Denied Environments. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2554-2563.	5.8	39
20	Public acceptance of drone applications in a highly urbanized environment. Technology in Society, 2021, 64, 101462.	9.4	37
21	Adaptive Output-Feedback Image-Based Visual Servoing for Quadrotor Unmanned Aerial Vehicles. IEEE Transactions on Control Systems Technology, 2020, 28, 1034-1041.	5.2	36
22	Transition Optimization for a VTOL Tail-Sitter UAV. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2534-2545.	5.8	36
23	Gait Planning for Steady Swimming Control of Biomimetic Fish Robots. Advanced Robotics, 2009, 23, 805-829.	1.8	35
24	Survey and Introduction to the Focused Section on Bio-Inspired Mechatronics. IEEE/ASME Transactions on Mechatronics, 2013, 18, 409-418.	5.8	35
25	UAV path optimization with an integrated cost assessment model considering third-party risks in metropolitan environments. Reliability Engineering and System Safety, 2022, 222, 108399.	8.9	35
26	An efficient foot-force distribution algorithm for quadruped walking robots. Robotica, 2000, 18, 403-413.	1.9	34
27	On the methods to derive frequency equations of beams carrying multiple masses. International Journal of Mechanical Sciences, 2001, 43, 871-881.	6.7	32
28	Ground Stereo Vision-Based Navigation for Autonomous Take-off and Landing of UAVs: A Chan-Vese Model Approach. International Journal of Advanced Robotic Systems, 2016, 13, 67.	2.1	32
29	Collision risk management for non-cooperative UAS traffic in airport-restricted airspace with alert zones based on probabilistic conflict map. Transportation Research Part C: Emerging Technologies, 2019, 109, 19-39.	7.6	32
30	Evolutionary Optimization-based Mission Planning for UAS Traffic Management (UTM). , 2019, , .		31
31	A Computational Fluid Dynamics (CFD) analysis of an undulatory mechanical fin driven by shape memory alloy. International Journal of Automation and Computing, 2006, 3, 374-381.	4.5	29
32	Solution schemes for the system equations of flexible robots. Journal of Field Robotics, 1989, 6, 383-405.	0.7	27
33	Quadruped Free Gait Generation Based on the Primary/Secondary Gait. Robotica, 1999, 17, 405-412.	1.9	26
34	Terrain evaluation and its application to path planning for walking machines. Advanced Robotics, 2001, 15, 729-748.	1.8	26
35	An optimized perching mechanism for autonomous perching with a quadrotor. , 2014, , .		26
36	On-line Optimization of Biomimetic Undulatory Swimming by an Experiment-based Approach. Journal of Bionic Engineering, 2014, 11, 213-225.	5.0	26

#	ARTICLE	IF	CITATIONS
37	A Variable Stiffness Robotic Gripper Based on Structure-Controlled Principle. IEEE Transactions on Automation Science and Engineering, 2018, 15, 1104-1113.	5.2	26
38	An Adaptive Path Replanning Method for Coordinated Operations of Drone in Dynamic Urban Environments. IEEE Systems Journal, 2021, 15, 4600-4611.	4.6	26
39	Modular design and initial gait study of an amphibian robotic turtle. , 2007, , .		25
40	Performance study of a fish robot propelled by a flexible caudal fin. , 2010, , .		25
41	Initial System Evaluation of an Overground Rehabilitation Gait Training Robot (NaTUre-gaits). Advanced Robotics, 2011, 25, 1927-1948.	1.8	25
42	Bio-inspired flow sensing and prediction for fish-like undulating locomotion: A CFD-aided approach. Journal of Bionic Engineering, 2015, 12, 406-417.	5.0	25
43	Thermosensitive Splicing of a Clock Gene and Seasonal Adaptation. Cold Spring Harbor Symposia on Quantitative Biology, 2007, 72, 599-606.	1.1	24
44	Preliminary Concept of Adaptive Urban Airspace Management for Unmanned Aircraft Operations. , 2018, , .		24
45	Three-dimensional (3D) Monte-Carlo modeling for UAS collision risk management in restricted airport airspace. Aerospace Science and Technology, 2020, 105, 105964.	4.8	24
46	A Concept of Airspace Configuration and Operational Rules for UAS in Current Airspace. , 2020, , .		24
47	Parametric Study of an Underwater Finned Propulsor Inspired by Bluespotted Ray. Journal of Bionic Engineering, 2012, 9, 166-176.	5.0	23
48	3D path planning and real-time collision resolution of multirotor drone operations in complex urban low-altitude airspace. Transportation Research Part C: Emerging Technologies, 2021, 129, 103123.	7.6	23
49	Kinematic modeling, mobility analysis and design of wheeled mobile robots. Advanced Robotics, 2005, 19, 73-99.	1.8	20
50	Improvement and testing of a robotic manta ray (RoMan-III). , 2011, , .		20
51	Detection of abnormal muscle activations during walking following spinal cord injury (SCI). Research in Developmental Disabilities, 2013, 34, 1226-1235.	2.2	20
52	Structure-Controlled Variable Stiffness Robotic Joint Based on Multiple Rotary Flexure Hinges. IEEE Transactions on Industrial Electronics, 2021, 68, 12452-12461.	7.9	20
53	Initial Prototype Design and Investigation of an Undulating Body by SMA. , 2006, , .		19
54	Natural gait parameters prediction for gait rehabilitation via artificial neural network. , 2010, , .		19

#	ARTICLE	IF	CITATIONS
55	Current and future trends of biologically inspired underwater vehicles. , 2011, , .		19
56	Multiple air route crossing waypoints optimization via artificial potential field method. Chinese Journal of Aeronautics, 2021, 34, 279-292.	5.3	19
57	UAV airborne collision to manned aircraft engine: Damage of fan blades and resultant thrust loss. Aerospace Science and Technology, 2021, 113, 106645.	4.8	19
58	Eigen-Analysis of a Tip-Loaded Beam Attached to a Rotating Joint. Journal of Vibration and Acoustics, Transactions of the ASME, 1990, 112, 497-500.	1.6	18
59	Bionic asymmetry: from amiiform fish to undulating robotic fins. Science Bulletin, 2009, 54, 562-568.	1.7	18
60	Frequencies of beams carrying multiple masses: Rayleigh estimation versus eigenanalysis solutions. Journal of Sound and Vibration, 2003, 268, 843-853.	3.9	17
61	Rehabilitation control strategies for a gait robot via EMG evaluation. , 2009, , .		17
62	A Risk-based UAS Traffic Network Model for Adaptive Urban Airspace Management. , 2020, , .		17
63	Linear Velocity-Free Visual Servoing Control for Unmanned Helicopter Landing on a Ship With Visibility Constraint. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2979-2993.	9.3	17
64	A comparative study of the eigenvalue solutions for mass-loaded beams under classical boundary conditions. International Journal of Mechanical Sciences, 2001, 43, 237-244.	6.7	16
65	Locomotion Consideration and Implementation of Robotic Fish with Modular Undulating Fins: Analysis and Experimental Study. , 2006, , .		16
66	Qualitative evaluations of gait rehabilitation via EMG muscle activation pattern: Repetition, symmetry, and smoothness. , 2009, , .		16
67	A subject-based motion generation model with adjustable walking pattern for a gait robotic trainer: NaTUre-gaits. , 2011, , .		16
68	Design and control of robotic exoskeleton with balance stabilizer mechanism. , 2015, , .		16
69	Collision probability between intruding drone and commercial aircraft in airport restricted area based on collision-course trajectory planning. Transportation Research Part C: Emerging Technologies, 2020, 120, 102736.	7.6	16
70	A Three-Dimensional Kinematics Analysis of a Koi Carp Pectoral Fin by Digital Image Processing. Journal of Bionic Engineering, 2013, 10, 210-221.	5.0	15
71	Initial analysis and design of an assistive rehabilitation hand device with free loading and fingers motion visible to subjects. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	14
72	Strategy-based robotic item picking from shelves. , 2016, , .		14

#	ARTICLE	IF	CITATIONS
73	Reference Trajectory Generation for Force Tracking Impedance Control by Using Neural Network-based Environment Estimation. , 2006, , .		13
74	Mechatronics and buoyancy implementation of robotic fish swimming with modular fin mechanisms. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2007, 221, 295-309.	1.0	13
75	Pelvic control and over-ground walking methodology for impaired gait recovery. , 2009, , .		13
76	Objective and quantitative assessment methodology of hand functions for rehabilitation. , 2009, , .		13
77	A Bio-Inspired Adaptive Perching Mechanism for Unmanned Aerial Vehicles. Journal of Robotics and Mechatronics, 2012, 24, 642-648.	1.0	13
78	Biomimetic Design and Workspace Study of Compact and Modular Undulating Fin Body Segments. , 2007, , .		12
79	Numerical and Experimental Research on Modular Oscillating Fin. Journal of Bionic Engineering, 2008, 5, 13-23.	5.0	12
80	Non-jamming conditions in multi-contact rigid-body dynamics. Multibody System Dynamics, 2009, 22, 269-295.	2.7	12
81	Gait planning for effective rehabilitation - From gait study to application in clinical rehabilitation. , 2009, , .		12
82	Concept of Operations (ConOps) for Traffic Management of Unmanned Aircraft Systems (TM-UAS) in Urban Environment. , 2017, , .		12
83	UAV Trajectory Estimation and Deviation Analysis for Contingency Management in Urban Environments. , 2020, , .		12
84	Review and Fin Structure Design for Robotic Manta Ray (RoMan IV). Journal of Robotics and Mechatronics, 2012, 24, 620-628.	1.0	12
85	Investigation and Modeling of Flight Technical Error (FTE) Associated With UAS Operating With and Without Pilot Guidance. IEEE Transactions on Vehicular Technology, 2021, 70, 12389-12401.	6.3	12
86	Initial analysis of EMG signals of hand functions associated to rehabilitation tasks. , 2009, , .		11
87	Subject-specific lower limb waveforms planning via artificial neural network. , 2011, 2011, 5975491.		11
88	Airborne Collision Evaluation between Drone and Aircraft Engine: Effects of Position and Posture on Damage of Fan Blades. , 2020, , .		11
89	Recent Development and Trends of Clinical-Based Gait Rehabilitation Robots. Springer Tracts in Advanced Robotics, 2015, , 41-75.	0.4	11
90	Adaptive conflict resolution for multi-UAV 4D routes optimization using stochastic fractal search algorithm. Transportation Research Part C: Emerging Technologies, 2022, 139, 103666.	7.6	11

#	ARTICLE	IF	CITATIONS
91	Development of modular and reconfigurable biomimetic robotic fish with undulating fin. , 2007, , .		10
92	Synchronized walking coordination for impact-less footpad contact of an overground gait rehabilitation system: NaTUre-gaits. , 2011, 2011, 5975353.		10
93	Image-Based Visual Servoing of Rotorcrafts to Planar Visual Targets of Arbitrary Orientation. IEEE Robotics and Automation Letters, 2021, 6, 7861-7868.	5.1	10
94	Investigation of Using Sky Openness Ratio as Predictor for Navigation Performance in Urban-like Environment to Support PBN in UTM. Sensors, 2022, 22, 840.	3.8	10
95	Kinematic modeling framework for biomimetic undulatory fin motion based on coupled nonlinear oscillators. , 2010, , .		9
96	Locomotion and gait analysis of multi-limb soft robots driven by smart actuators. , 2016, , .		9
97	Software-in-the-loop investigation of wake-vortex-encounter-response of identical multirotor pair with PX4 attitude controller. Aerospace Science and Technology, 2021, 117, 106967.	4.8	9
98	Design and Implementation of NTU Wearable Exoskeleton as an Enhancement and Assistive Device. Applied Bionics and Biomechanics, 2006, 3, 209-225.	1.1	8
99	Subject-specific gait parameters prediction for robotic gait rehabilitation via generalized regression neural network. , 2011, , .		8
100	Discrete space-based route planning for rotary-wing UAV formation in urban environments. ISA Transactions, 2022, 129, 243-259.	5.7	8
101	Comparative Study of Frequencies for Plates Carrying Mass. Journal of Engineering Mechanics - ASCE, 1993, 119, 917-937.	2.9	7
102	MANEUVERING OF BIOMIMETIC FISH BY INTEGRATING A BUOYANCY BODY WITH MODULAR UNDULATING FINS. International Journal of Humanoid Robotics, 2007, 04, 671-695.	1.1	7
103	Parametric Study of Modular and Reconfigurable Robotic Fish with Oscillating Caudal Fin Mechanisms. , 2007, , .		7
104	LEARNING FROM GYMNOTIFORM SWIMMERS " DESIGN AND IMPLEMENTATION OF ROBOTIC KNIFEFISH NKF-II. International Journal of Information Acquisition, 2008, 05, 137-147.	0.2	7
105	A bilateral teleoperation controller considering the transition between the free space motion and the constrained motion. Robotica, 2008, 26, 781-790.	1.9	7
106	An analytical approach for better swimming efficiency of slender fish robots based on Lighthill's model. , 2009, , .		7
107	Robust gait control for steady swimming of a carangiform fish robot. , 2009, , .		7
108	Comprehensive planning of robotic therapy and assessment of task-oriented functions via improved QFD applicable to hand rehabilitation. , 2010, , .		7

#	ARTICLE	IF	CITATIONS
109	Innovations in Infrastructure Service Robots. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2016, , 3-16.	0.6	7
110	Three-dimensional (3D) Dynamic Obstacle Perception in a Detect-and-Avoid Framework for Unmanned Aerial Vehicles. , 2019, , .		7
111	Output Feedback Image-Based Visual Servoing of Rotorcrafts. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 93, 277-287.	3.4	7
112	Trajectory-based flight scheduling for AirMetro in urban environments by conflict resolution. Transportation Research Part C: Emerging Technologies, 2021, 131, 103355.	7.6	7
113	Severity assessment of aircraft engine fan blades under airborne collision of unmanned aerial vehicles comparable to bird strike certification standards. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2022, 236, 1817-1835.	1.3	7
114	Route Coordination of UAV Fleet to Track a Ground Moving Target in Search and Lock (SAL) Task Over Urban Airspace. IEEE Internet of Things Journal, 2022, 9, 20604-20619.	8.7	7
115	Posture analysis and application of a bionic pectoral foil. , 2011, , .		6
116	Autonomous Formation Flight of Indoor UAVs Based on Model Predictive Control. , 2016, , .		6
117	Experimental and Analytical Study of the Frequencies of an S-C-S-C Plate Carrying a Concentrated Mass. Journal of Vibration and Acoustics, Transactions of the ASME, 1993, 115, 391-396.	1.6	5
118	Initial Research on Development of a Flexible Pectoral Fin Using Shape Memory Alloy. , 2006, , .		5
119	Morphologic Optimal Design of Bionic Undulating Fin Based on Computational Fluid Dynamics. , 2007, , .		5
120	Design and Initial Testing of a Single-Motor-Driven Spatial Pectoral Fin Mechanism. , 2007, , .		5
121	Effective Gait planning for robotic rehabilitation - From normal gait study to application in clinical rehabilitation. , 2009, , .		5
122	Locomotion planning of biomimetic robotic fish with multi-joint actuation. , 2009, , .		5
123	Performance predict model for a body and caudal fin (BCF) biomimetics fish robot. , 2009, , .		5
124	Modulation of weight off-loading level over body-weight supported locomotion training. , 2011, 2011, 5975354.		5
125	Mechanism design and kinematic analysis of a robotic manipulator driven by joints with two degrees of freedom (DOF). Industrial Robot, 2018, 45, 34-43.	2.1	5
126	Impact of Sensors on Collision Risk Prediction for Non-Cooperative Traffic in Terminal Airspace. , 2018, , .		5

#	ARTICLE	IF	CITATIONS
127	Accessibility Analysis of Unmanned Aerial Vehicles Near Airports with a Four-Dimensional Airspace Management Concept. , 2020, , .		5
128	Crash Area Estimation for Ground Risk of Small Unmanned Aerial Vehicles Due to Propulsion System Failures.. , 2022, , .		5
129	Numerical studies on modeling the near- and far-field wake vortex of a quadrotor in forward flight. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2022, 236, 1166-1183.	1.3	5
130	Terrain-evaluation-based motion planning for legged locomotion on irregular terrain. Advanced Robotics, 2003, 17, 761-778.	1.8	4
131	A virtual boundary model for a quick dropâ€‘impact analysis of electronic components in TV model. Advances in Engineering Software, 2004, 35, 537-551.	3.8	4
132	Combined Impedance/Direct Control of Robot Manipulators. , 2006, , .		4
133	Maneuvering and Buoyancy Control of Robotic Fish Integrating with Modular Undulating Fins. , 2006, , .		4
134	Electromyography analysis for pre-clinical trials of hand rehabilitation tasks using design of experiments. , 2009, , .		4
135	Initial home-based foot-mat design & analysis of bio-gait characteristics to prevent fall in elderly people. , 2009, , .		4
136	A multi-disciplinary approach for effective hand rehabilitation with clinical-based assessment outcomes. , 2009, , .		4
137	An improved semi-empirical model for a body and/or caudal fin (BCF) fish robot. , 2010, , .		4
138	Subject-oriented overground walking pattern generation on a rehabilitation robot based on foot and pelvic trajectories. Procedia IUTAM, 2011, 2, 109-127.	1.2	4
139	Dynamic Visual Servoing of a Rotary-wing Unmanned Aerial Vehicle Without Velocity Measurement. , 2017, , .		4
140	An initial parametric study of weight and energy thresholds for falling unmanned aerial vehicles (UAVs). , 2017, , .		4
141	A Path Planning Algorithm for Smooth Trajectories of Unmanned Aerial Vehicles via Potential Fields. , 2018, , .		4
142	Preliminary 4.5G Cellular Network Assessment with Calibrated Standard Propagation Model (SPM) for uTM-UAS Operations in Singapore Airspace. , 2018, , .		4
143	Preliminary Evaluation of Thrust Loss in Commercial Aircraft Engine due to Airborne Collision with Unmanned Aerial Vehicles (UAVs). , 2020, , .		4
144	Feasibility of mercury (II) ion removal by nitrated polycarbonate derived from waste optical discs. International Journal of Environmental Science and Technology, 2020, 17, 4161-4170.	3.5	4

#	ARTICLE	IF	CITATIONS
145	Adaptive Control of Unmanned Quadrotor with Partial Actuator Failure using Model Reference Adaptive Control (MRAC) with Dynamic Inversion. , 2021, , .		4
146	Homography-Based Visual Servoing for Underactuated VTOL UAVs Tracking a 6-DOF Moving Ship. IEEE Transactions on Vehicular Technology, 2022, 71, 2385-2398.	6.3	4
147	MODELING AND MOTION CONTROL OF ROBOTIC HAND FOR TELEMANNIPULATION APPLICATION. International Journal of Software Engineering and Knowledge Engineering, 2005, 15, 147-152.	0.8	3
148	Virtual circle mapping for masterâ€“slave hand systems. Advanced Robotics, 2007, 21, 183-208.	1.8	3
149	Effects of body-weight support locomotion training (BWSLT) on EMG activation in healthy and spinal cord injury (SCI) subjects. , 2010, , .		3
150	Effects of ground contact for overground walking on a robotic gait trainer. , 2011, , .		3
151	Clinical-Based Engineering Assessment and Data Interpretation of Hand Strength for Task-Oriented Robotic Rehabilitation. Advanced Robotics, 2011, 25, 1991-2018.	1.8	3
152	Evaluation of graspable region and selection of footholds for biped pole-climbing robots. , 2014, , .		3
153	DESIGN AND GAIT ANALYSIS OF A TORTOISE-LIKE ROBOT WITH SOFT LIMBS. , 2015, , .		3
154	Design and Evaluation of an Underactuated Adaptive Finger for Parallel Grippers. , 2018, , .		3
155	Collision Risk Assessment between UAS and Landing Aircraft in Restricted Airspace Surrounding an Airport using 3D Monte-Carlo Simulation. , 2019, , .		3
156	Data Analysis on Track Deviation of UAS Operating under Visual Line of Sight (VLoS) Condition. , 2020, , .		3
157	Framework for the Estimation of Safe Wake Separation Distance between Same-Track Multi-Rotor UAS. , 2021, , .		3
158	Preliminary UAS Navigation Performance Analysis in Urban-like Environments. , 2021, , .		3
159	Modeling and control of a piezo-actuated high-dynamic compensation mechanism for industrial robots. , 2011, , .		3
160	Special Issue on Focused Areas and Future Trends of Bio-Inspired Robots â€œAnalysis, Control, and Design for Bio-Inspired Roboticsâ€: Journal of Robotics and Mechatronics, 2012, 24, 559-560.	1.0	3
161	Framework of Level-of-Autonomy-based Concept of Operations: UAS Capabilities. , 2021, , .		3
162	A Preliminary Study on Uaaas Vertical NSE Analysis in Urban-Like Environments. , 2022, , .		3

#	ARTICLE	IF	CITATIONS
163	A Simulation-Based Study on the Impact of Tracking Performance on UTM Flight Safety. , 2022, , .		3
164	Combined use of equivalent center mass and stiffness factors to better estimate frequencies of mass loaded plates. Advances in Engineering Software, 2000, 31, 295-302.	3.8	2
165	On the Position/Force Control of Robot Manipulators with Model Uncertainty and Random Disturbances. , 2006, , .		2
166	Computational Study on Posture Control of Shape Memory Alloy Biomimetic Pectoral Fin. , 2007, , .		2
167	Study and implementation of station-holding performance on a fish robot in adverse unsteady flow. , 2010, , .		2
168	Optimization of swimming locomotion for fish robots with multi-actuation. , 2011, , .		2
169	A PERFORMANCE PREDICTIVE MODEL FOR STEADY SWIMMING OF A FISH ROBOT. International Journal of Humanoid Robotics, 2011, 08, 185-203.	1.1	2
170	Design of Control Strategy for Autonomous Perching with a Quadrotor. Applied Mechanics and Materials, 0, 461, 506-512.	0.2	2
171	Biorobotics with Hybrid and Multimodal Locomotion [TC Spotlight]. IEEE Robotics and Automation Magazine, 2015, 22, 29-181.	2.0	2
172	Editorial: Biomechatronics: Harmonizing Mechatronic Systems With Human Beings. Frontiers in Neuroscience, 2018, 12, 768.	2.8	2
173	Preliminary Study of Transport Pattern and Demand in Singapore for Future Urban Air Mobility. , 2021, , .		2
174	Collision Severity Evaluation of Generalized Unmanned Aerial Vehicles (UAVs) Impacting on Aircraft Engines. , 2021, , .		2
175	Preliminary Investigation of Wake Vortex Generated by Spinning Quadrotor Propellers Using Overset Mesh. , 2021, , .		2
176	Airborne collision severity study on engine ingestion caused by harmless-categorized drones. , 2021, , .		2
177	A Study on Circulation Strength Decay Over Time of Quadrotor Wake Using Large Eddy Simulation. , 2022, , .		2
178	Initial Reliability Assessment of a Commercial-Off-The-Shelf GPS Sensor for Generic UAVs. , 2022, , .		2
179	Safety-Focused Framework for Enabling UAS Traffic Management in Urban Environment. , 2022, , .		2
180	Comprehensive signal interpretation of functional hand strength for activities of daily living (ADL) rehabilitation via multivariate data analysis (MVA). , 2009, , .		1

#	ARTICLE	IF	CITATIONS
181	INITIAL STUDY ON A HOME-BASED FLOOR-MAT SYSTEM FOR FALL PREVENTION OF ELDERLY BASED ON GAIT ANALYSIS. International Journal of Information Acquisition, 2010, 07, 135-149.	0.2	1
182	A flexible fixtureless assembly of T-joint frame structures. , 2015, , .		1
183	Selective Laser Melting of Density Graded Ti6Al4V. , 2014, , .		1
184	BALANCE ANALYSIS AND OPTIMAL POSTURE ESTIMATION DURING ASSISTED WALKING. , 2015, , .		1
185	Future Demand and Optimum Distribution of Droneports. , 2020, , .		1
186	Numerical Investigation on Influence of Fuselage on Multirotor Wake Vortex Structures in Forward Flight. , 2022, , .		1
187	A subject-based motion generation model with adjustable walking pattern for a gait robotic trainer: NaTUre-gaits. , 2011, , .		1
188	Preliminary Environmental Risk Consideration for Small UAV Ground Risk Mapping. , 2022, , .		1
189	Environmental Data Analytics for Safe Drone Operations in Low-Altitude Urban Environments. , 2022, , .		1
190	Spatiotemporal Population Movement for Ground Risk of Unmanned Aerial Vehicles (UAVs) in Urbanized Environments using Public Transportation Data. , 2022, , .		1
191	Investigation of Flight Technical Error for UAV Separation Requirement Based on Flight Trajectory Data. , 2022, , .		1
192	Preliminary Damage Severity Evaluation of Ground Vehicles and Covered Walkways under Collision with a Small Unmanned Aerial Vehicle (sUAV). , 2022, , .		1
193	A Transparent Bilateral Controller for Teleoperation Considering the Transition of Motion. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	0
194	Modeling and control on hysteresis nonlinearity in biomimetic undulating fins. , 2011, , .		0
195	Clinical-Based, Task-Specific and Subject-Oriented Approaches Essential to Effective Robotics Rehabilitation. Advanced Robotics, 2011, 25, 1851-1855.	1.8	0
196	Issues of safety and risk management for unmanned aircraft operations in urban airspace. , 2017, , .		0
197	Two-Dimensional Modeling of Multilayer Multimaterial Circuit Boards by Using an EQLAM Multilayer Model. , 2005, , .		0
198	Quick Evaluation of Crashworthiness for Nonlinear Damped Systems by Using an Analytical Linearization Method. , 2005, , .		0

#	ARTICLE	IF	CITATIONS
199	Damage Analysis of Multilayer Multimaterial Circuit Boards by Using a Bi-Phase Multilayer Model. , 2005, , .		0
200	Initial Modeling and Locomotion Study of an Omni-Directional Rover. , 2005, , .		0
201	RESEARCH AND DEVELOPMENT TRENDS IN ROBOT-ASSISTED WALKING REHABILITATION INCORPORATING POSTURAL BALANCING. , 2018, , 43-67.		0
202	Initial Feasibility Study of Multi-rotor eVTOL Aircraft for Cross-border Urban Air Mobility between Singapore and Neighbouring Countries. , 2021, , .		0
203	Preliminary Study on Drone Navigation in Urban Environments using Visual Odometry and Partially Observable Monte Carlo Planning. , 2022, , .		0
204	Conflict-Free Trajectory Planning for Urban Air Mobility Based on an Airspace-Resource-Centric Approach. , 2022, , .		0