

# Andrey Yatsun

## List of Publications by Year in descending order

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40  
papers

275  
citations

1307594

7  
h-index

1125743

13  
g-index

44  
all docs

44  
docs citations

44  
times ranked

51  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trajectory Planning Strategy for the Links of a Walking Human-Machine System Using a Neural Network. Lecture Notes in Networks and Systems, 2022, , 255-261.	0.7	2
2	Studying of Copying Control System with Nonlinear Measurer. Smart Innovation, Systems and Technologies, 2022, , 13-23.	0.6	2
3	Simulation of Static Walking in an Exoskeleton. Smart Innovation, Systems and Technologies, 2022, , 49-60.	0.6	3
4	Simulation of Underwater Robot Autonomous Motion Along Predetermined Straight Path. Smart Innovation, Systems and Technologies, 2022, , 73-84.	0.6	0
5	Investigation of Human Locomotion With a Powered Lower Limb Exoskeleton. , 2021, , 233-254.		0
6	Modeling of the Exoskeletal Human-Machine System Movement Lifting a Load. Smart Innovation, Systems and Technologies, 2021, , 259-268.	0.6	1
7	Solving the Problem of Overcoming a Staircase Flight by a Multi-Link Crawling Robot. , 2020, , .		3
8	Comparative Analysis of the Industrial Exoskeleton Control Systems. Smart Innovation, Systems and Technologies, 2020, , 63-74.	0.6	14
9	Footstep Planning for Bipedal Robots and Lower Limb Exoskeletons Moving Through Narrow Doors. Smart Innovation, Systems and Technologies, 2020, , 77-88.	0.6	1
10	Investigation of Movements of Lower-Limb Assistive Industrial Device. Lecture Notes in Computer Science, 2019, , 226-235.	1.3	4
11	Motion Control Automation in the Quadcopter Convertiplane in a Transient Mode. , 2018, , .		3
12	The control algorithm of the lower limb exoskeleton synchronous gait. MATEC Web of Conferences, 2018, 161, 03010.	0.2	2
13	Investigation of Human Cargo Handling in Industrial Exoskeleton. , 2018, , .		7
14	Harmonic Function-Based ZMP Trajectory Generation for Nonlinear Motion of Walking Robots. , 2018, , .		3
15	Modelling Characteristics of Human-Robot Interaction in an Exoskeleton System with Elastic Elements. Lecture Notes in Computer Science, 2018, , 85-94.	1.3	2
16	Investigation of Human Locomotion With a Powered Lower Limb Exoskeleton. Advances in Computational Intelligence and Robotics Book Series, 2018, , 26-47.	0.4	4
17	Motion Control Algorithm for Exoskeleton Push Recovery in the Frontal Plane. Advances in Intelligent Systems and Computing, 2017, , 474-481.	0.6	3
18	Footstep Planner Algorithm for a Lower Limb Exoskeleton Climbing Stairs. Lecture Notes in Computer Science, 2017, , 75-82.	1.3	12

#	ARTICLE	IF	CITATIONS
19	System analysis of sagittal plane human motion wearing an exoskeleton using marker technology. ITM Web of Conferences, 2016, 6, 03006.	0.5	13
20	Simulation of exoskeleton sit-to-stand movement. Journal of Machinery Manufacture and Reliability, 2016, 45, 206-210.	0.5	11
21	Parameter Optimization for Exoskeleton Control System Using Sobol Sequences. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2016, , 361-368.	0.6	27
22	Comparative analysis of global optimization-based controller tuning methods for an exoskeleton performing push recovery. , 2016, , .		7
23	CONTROL SYSTEM PARAMETER OPTIMIZATION FOR LOWER LIMB EXOSKELETON WITH INTEGRATED ELASTIC ELEMENTS. , 2016, , 797-805.		7
24	Study of controlled motion of an exoskeleton performing obstacle avoidance during a single support walking phase. , 2016, , .		4
25	Algorithm for motion control of an exoskeleton during verticalization. ITM Web of Conferences, 2016, 6, 01001.	0.5	17
26	Improvement of energy consumption for a lower limb exoskeleton through verticalization time optimization. , 2016, , .		15
27	A Control Strategy for a Lower Limb Exoskeleton with a Toe Joint. Lecture Notes in Computer Science, 2016, , 1-8.	1.3	3
28	Locomotion Control Method for Patients Verticalization with Regard to their Safety and Comfort. Annals of DAAAM & Proceedings, 2016, , 1129-1137.	0.1	4
29	Theoretical and experimental studies of transverse dimensional gait of five-link mobile robot on rough surface. , 2015, , .		2
30	Study of a nonlinear control system for unbalanced two-link mechanism. , 2015, , .		0
31	Bio-inspired adaptive control strategy for a snake-like robot. , 2015, , .		4
32	Adaptive control system for exoskeleton performing sit-to-stand motion. , 2015, , .		24
33	Liquid products of the microwave pyrolysis of scrap tires. Solid Fuel Chemistry, 2013, 47, 252-254.	0.7	6
34	MODELLING OF MOVEMENT OF THE THREE-LINK ROBOT WITH OPERATED FRICTION FORCES ON THE HORIZONTAL SURFACE. , 2013, , .		4
35	MOBILE JUMPING ROBOT, EQUIPPED WITH ELECTROMECHANICAL LINEAR DRIVES. , 2010, , .		0
36	Modelling of Robot's Motion by Use of Vibration of Internal Masses. , 2009, , 263-270.		2

#	ARTICLE	IF	CITATIONS
37	MODELLING OF HOPPING ROBOT WITH ACTIVE VIBROISOLATION FOR ONBOARD EQUIPMENT. , 2009, , .		0
38	Hardwareâ€“Software System for Assessing Elasticâ€“Dissipative Properties of Skin Integument. Bio-Medical Engineering, 2009, 43, 43-47.	0.5	1
39	STUDY OF A VIBRATION DRIVEN HOPPING ROBOT. , 2008, , .		1
40	Vibration driven robots for in pipe inspection. , 2007, , .		7