

VÃ-ctor H Andaluz

List of Publications by Year in descending order

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142
papers

801
citations

777949

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159
all docs

159
docs citations

159
times ranked

399
citing authors

#	ARTICLE	IF	CITATIONS
1	Autonomous Control of an Electric Vehicle by Computer Vision Applied to the Teachingâ€“Learning Process. Smart Innovation, Systems and Technologies, 2022, , 419-432.	0.5	0
2	Modeling and Control of Omnidirectional Robots with Displaced Center of Mass. Smart Innovation, Systems and Technologies, 2022, , 703-712.	0.5	0
3	Virtual Environment of an Industrial Process for Learning and Teaching. Smart Innovation, Systems and Technologies, 2022, , 713-723.	0.5	1
4	3D Virtual Training System for a Bioreactor Using Hardware-in-the-Loop. Smart Innovation, Systems and Technologies, 2022, , 573-586.	0.5	0
5	Temperature Control of an Electric Through Virtual Hardware in the Loop Technique. Smart Innovation, Systems and Technologies, 2022, , 689-701.	0.5	2
6	Soda Bottling Process Through the Virtual Hardware in the Loop Technique. Smart Innovation, Systems and Technologies, 2022, , 621-631.	0.5	2
7	Control of a SCARA Robot Manipulador. Lecture Notes in Networks and Systems, 2022, , 811-825.	0.5	0
8	System Identification and Nonlinear Model Predictive Control with Collision Avoidance Applied in Hexacopters UAVs. Sensors, 2022, 22, 4712.	2.1	6
9	Dynamic Simulation and Kinematic Control for Autonomous Driving in Automobile Robots. Advances in Intelligent Systems and Computing, 2021, , 205-216.	0.5	4
10	Human-Robot Collaborative Control for Handling and Transfer Objects. Communications in Computer and Information Science, 2021, , 96-110.	0.4	1
11	Unicycle Mobile Robot Formation Control in Hardware in the Loop Environments. Communications in Computer and Information Science, 2021, , 430-443.	0.4	4
12	Virtual Control of a Double Effect Evaporator for Teaching-Learning Processes. Lecture Notes in Computer Science, 2021, , 690-700.	1.0	1
13	Application for the Cooperative Control of Mobile Robots with Energy Optimization. Lecture Notes in Computer Science, 2021, , 329-340.	1.0	0
14	Control of an Omnidirectional Robot Based on the Kinematic and Dynamic Model. Communications in Computer and Information Science, 2021, , 444-457.	0.4	1
15	Virtual Training System for Robotic Applications in Industrial Processes. Lecture Notes in Computer Science, 2021, , 717-734.	1.0	2
16	Three-Dimensional Unified Motion Control of a Robotic Standing Wheelchair for Rehabilitation Purposes. Sensors, 2021, 21, 3057.	2.1	8
17	LAMDA Controller Applied to the Trajectory Tracking of an Aerial Manipulator. Applied Sciences (Switzerland), 2021, 11, 5885.	1.3	5
18	Virtual Reality-Based Framework to Simulate Control Algorithms for Robotic Assistance and Rehabilitation Tasks through a Standing Wheelchair. Sensors, 2021, 21, 5083.	2.1	27

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19	Conversational Agent for Industrial Processes Through Virtual Environments. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 218-229.	0.5	6
20	Virtual Control of a Perfectly Stirred Reactor for Cyclopentene Production. <i>Lecture Notes in Computer Science</i> , 2021, , 680-689.	1.0	3
21	Augmented Reality System for the Assistance of Unmanned Aerial Vehicles. , 2020, , .		1
22	Virtual Simulator for Collaborative Tasks of Aerial Manipulator Robots. , 2020, , .		3
23	Multi-User Virtual System for Training of the Production and Bottling Process of Soft Drinks. , 2020, , .		11
24	3D Virtual Content for Education Applications. , 2020, , .		3
25	Teaching and Learning Virtual Strategy for the Navigation of Multiple-UAV. , 2020, , .		3
26	Training Systems for Control of Mobile Manipulator Robots in Augmented Reality. , 2020, , .		2
27	Smart University Immersive Virtual Learning. , 2020, , .		3
28	Dynamics of a Unicycle-Type Wheeled Mobile Manipulator Robot. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 24-33.	0.5	2
29	Multi-user Expert System for Operation and Maintenance in Energized Lines. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 454-472.	0.5	4
30	Inverse Kinematics of a Redundant Manipulator Robot Using Constrained Optimization. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 233-242.	0.5	2
31	Teaching STEM Competencies Through an Educational Mobile Robot. <i>Lecture Notes in Computer Science</i> , 2020, , 560-573.	1.0	7
32	Wheelchair Controlled by Eye Movement Using Raspberry Pi for ALS Patients. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 124-136.	0.5	1
33	Non-linear 3D Visual Control for an Unmanned Aerial Vehicle. <i>Lecture Notes in Computer Science</i> , 2020, , 108-115.	1.0	0
34	Non-linear Control of Aerial Manipulator Robots Based on Numerical Methods. <i>Lecture Notes in Computer Science</i> , 2020, , 97-107.	1.0	0
35	Optimal Trajectory Tracking Control for a UAV Based on Linearized Dynamic Error. <i>Lecture Notes in Computer Science</i> , 2020, , 83-96.	1.0	2
36	Construction and Control Aerial Manipulator Robot. <i>Lecture Notes in Computer Science</i> , 2020, , 116-123.	1.0	2

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37	Optimal Control Problem of a Differential Drive Robot. Lecture Notes in Computer Science, 2020, , 75-82.	1.0	1
38	Virtual Simulator for the Taking and Evaluation of Psychometric Tests to Obtain a Driver's License. Lecture Notes in Computer Science, 2019, , 138-149.	1.0	0
39	Machine Learning for Acquired Brain Damage Treatment. Lecture Notes in Computer Science, 2019, , 362-375.	1.0	0
40	Training Assistant for Automotive Engineering Through Augmented Reality. Lecture Notes in Computer Science, 2019, , 146-160.	1.0	3
41	Virtual Training for Industrial Process: Pumping System. Lecture Notes in Computer Science, 2019, , 393-409.	1.0	6
42	Virtual Training on Pumping Stations for Drinking Water Supply Systems. Lecture Notes in Computer Science, 2019, , 410-429.	1.0	7
43	Virtual Training System for an Industrial Pasteurization Process. Lecture Notes in Computer Science, 2019, , 430-441.	1.0	9
44	Virtual Environment for Teaching and Learning Robotics Applied to Industrial Processes. Lecture Notes in Computer Science, 2019, , 442-455.	1.0	3
45	Immersive Virtual System for the Operation of Tourist Circuits. Lecture Notes in Computer Science, 2019, , 239-255.	1.0	0
46	Augmented Reality in Laboratory's Instruments, Teaching and Interaction Learning. Lecture Notes in Computer Science, 2019, , 335-347.	1.0	0
47	Autonomous Monitoring of Air Quality Through an Unmanned Aerial Vehicle. Lecture Notes in Computer Science, 2019, , 146-157.	1.0	4
48	GY MEDIC: Analysis and Rehabilitation System for Patients with Facial Paralysis. Lecture Notes in Computer Science, 2019, , 63-75.	1.0	5
49	Controller Based on Null Space and Sliding Mode (NSB-SMC) for Bidirectional Teleoperation of Mobile Robots Formation in an Environment with Obstacles. , 2019, , .		1
50	Consensus Algorithms for Bidirectional Teleoperation of Aerial Manipulator Robots in an Environment with Obstacles. , 2019, , .		2
51	3-D Path Planning Using Subatomic Particles and Feynman Diagrams. , 2019, , .		2
52	GY MEDIC v2: Quantification of Facial Asymmetry in Patients with Automated Bell's Palsy by AI. Lecture Notes in Computer Science, 2019, , 351-361.	1.0	4
53	Training Assistant for Industrial Processes through Augmented Reality. , 2019, , .		7
54	Autonomous Driver Assistant for Collision Prevention. , 2019, , .		3

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55	Multi-user Virtual Training Assistant for Maintenance on Energized Medium-Voltage Lines. , 2019, , .		1
56	Multi-User System for Virtual Interaction of a Pasteurization Process. , 2019, , .		2
57	An Implementation on Matlab Software for Non-linear Controller Design Based on Linear Algebra for Quadruple Tank Process. Advances in Intelligent Systems and Computing, 2018, , 333-340.	0.5	3
58	Control Based on Linear Algebra for Mobile Manipulators. Mechanisms and Machine Science, 2018, , 79-86.	0.3	2
59	Virtual Reality on e-Tourism. Lecture Notes in Electrical Engineering, 2018, , 86-97.	0.3	15
60	Adaptation of the Bioloid Humanoid as an Auxiliary in the Treatment of Autistic Children. Lecture Notes in Electrical Engineering, 2018, , 256-266.	0.3	2
61	Heterogeneous Cooperation for Autonomous Navigation Between Terrestrial and Aerial Robots. Lecture Notes in Electrical Engineering, 2018, , 287-296.	0.3	1
62	Linear Algebra Applied to Kinematic Control of Mobile Manipulators. Lecture Notes in Electrical Engineering, 2018, , 297-306.	0.3	2
63	Characteristics of Magnetorheological Fluids Applied to Prosthesis for Lower Limbs with Active Damping. Lecture Notes in Electrical Engineering, 2018, , 239-247.	0.3	2
64	Autonomous Assistance System for People with Amyotrophic Lateral Sclerosis. Lecture Notes in Electrical Engineering, 2018, , 267-277.	0.3	0
65	Carpal Tunnel Syndrome Rehabilitation Through Force Feedback. IEEE Latin America Transactions, 2018, 16, 2467-2472.	1.2	1
66	Training in Virtual Environments for Hybrid Power Plant. Lecture Notes in Computer Science, 2018, , 193-204.	1.0	7
67	Autonomous Control Through the Level of Fatigue Applied to the Control of Autonomous Vehicles. Lecture Notes in Computer Science, 2018, , 115-126.	1.0	1
68	Web System for Visualization of Weather Data of the Hydrometeorological Network of Tungurahua, Ecuador. Lecture Notes in Computer Science, 2018, , 395-406.	1.0	0
69	Augmented Reality System for Training and Assistance in the Management of Industrial Equipment and Instruments. Lecture Notes in Computer Science, 2018, , 675-686.	1.0	7
70	Alternative Treatment of Psychological Disorders Such as Spider Phobia Through Virtual Reality Environments. Lecture Notes in Computer Science, 2018, , 687-697.	1.0	0
71	Oil Processes VR Training. Lecture Notes in Computer Science, 2018, , 712-724.	1.0	5
72	3D Virtual Path Planning for People with Amyotrophic Lateral Sclerosis Through Standing Wheelchair. Lecture Notes in Computer Science, 2018, , 181-191.	1.0	2

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73	Cooperative Control of Sliding Mode for Mobile Manipulators. Lecture Notes in Computer Science, 2018, , 253-264.	1.0	1
74	Visual feedback framework for rehabilitation of stroke patients. Informatics in Medicine Unlocked, 2018, 13, 41-50.	1.9	10
75	Robot nonlinear control for Unmanned Aerial Vehiclesâ€™ multitasking. Assembly Automation, 2018, 38, 645-660.	1.0	11
76	Diverting and Sorting Mobile Robotic Table for Motion Control Testing. IOP Conference Series: Materials Science and Engineering, 2018, 417, 012011.	0.3	0
77	Unified Nonlinear Control for Car-like Mobile Robot 4 Wheels Steering. Lecture Notes in Computer Science, 2018, , 182-194.	1.0	2
78	Market Study of Durable Consumer Products in Multi-user Virtual Environments. Lecture Notes in Computer Science, 2018, , 86-100.	1.0	1
79	Virtual Environments to Stimulate Skills in the Early Childhood Education Stage. Lecture Notes in Computer Science, 2018, , 285-297.	1.0	0
80	e-Tourism: Governmental Planning and Management Mechanism. Lecture Notes in Computer Science, 2018, , 162-170.	1.0	2
81	Immersive Environment for Training on Industrial Emergencies. Lecture Notes in Computer Science, 2018, , 451-466.	1.0	10
82	SLT-Game: Support System for Therapies of Children with Communication Disorders. Lecture Notes in Computer Science, 2018, , 165-175.	1.0	0
83	Multi-user Industrial Training and Education Environment. Lecture Notes in Computer Science, 2018, , 533-546.	1.0	14
84	Virtual Reality System for Assistance in Treating Respiratory Disorders. Lecture Notes in Computer Science, 2018, , 118-135.	1.0	4
85	Augmented Reality as a New Marketing Strategy. Lecture Notes in Computer Science, 2018, , 351-362.	1.0	12
86	Training for Bus Bodywork in Virtual Reality Environments. Lecture Notes in Computer Science, 2018, , 67-85.	1.0	5
87	Sales Maximization Based on Neuro-Marketing Techniques in Virtual Environments. Lecture Notes in Computer Science, 2018, , 176-191.	1.0	3
88	Realâ€™Time Virtual Reality Visualizer for Unmanned Aerial Vehicles. Lecture Notes in Computer Science, 2018, , 479-495.	1.0	1
89	Autonomous and Tele-Operated Navigation of Aerial Manipulator Robots in Digitalized Virtual Environments. Lecture Notes in Computer Science, 2018, , 496-515.	1.0	10
90	Virtual Training for Industrial Automation Processes Through Pneumatic Controls. Lecture Notes in Computer Science, 2018, , 516-532.	1.0	14

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91	Virtual Rehabilitation System for Fine Motor Skills Using a Functional Hand Orthosis. Lecture Notes in Computer Science, 2018, , 78-94.	1.0	4
92	Virtual Rehabilitation of Carpal Tunnel Syndrome Through Force Feedback. Lecture Notes in Computer Science, 2018, , 153-164.	1.0	2
93	Virtual Reality-Based Memory Assistant for the Elderly. Lecture Notes in Computer Science, 2018, , 269-284.	1.0	4
94	Modeling and Kinematic Nonlinear Control of Aerial Mobile Manipulators. Mechanisms and Machine Science, 2018, , 87-95.	0.3	12
95	Autonomous March Control for Humanoid Robot Animation in a Virtual Reality Environment. Mechanisms and Machine Science, 2018, , 70-78.	0.3	2
96	Haptic Stimulation Glove for Fine Motor Rehabilitation in Virtual Reality Environments. Lecture Notes in Computer Science, 2018, , 211-229.	1.0	7
97	Training of Tannery Processes Through Virtual Reality. Lecture Notes in Computer Science, 2017, , 75-93.	1.0	10
98	Robotic Applications in Virtual Environments for Children with Autism. Lecture Notes in Computer Science, 2017, , 175-187.	1.0	6
99	Virtual Reality Applied to Industrial Processes. Lecture Notes in Computer Science, 2017, , 59-74.	1.0	15
100	Robots Coordinated Control for Service Tasks in Virtual Reality Environments. Lecture Notes in Computer Science, 2017, , 164-175.	1.0	3
101	Virtual Reality System for Training in Automotive Mechanics. Lecture Notes in Computer Science, 2017, , 185-198.	1.0	26
102	Virtual Environments for Motor Fine Skills Rehabilitation with Force Feedback. Lecture Notes in Computer Science, 2017, , 94-105.	1.0	7
103	Assistance System for Rehabilitation and Valuation of Motor Skills. Lecture Notes in Computer Science, 2017, , 166-174.	1.0	11
104	Realism in Audiovisual Stimuli for Phobias Treatments Through Virtual Environments. Lecture Notes in Computer Science, 2017, , 188-201.	1.0	6
105	Navigation and Dynamic Control of Omnidirectional Platforms. Lecture Notes in Computer Science, 2017, , 661-672.	1.0	3
106	Numerical Methods for Cooperative Control of Double Mobile Manipulators. Lecture Notes in Computer Science, 2017, , 889-898.	1.0	8
107	Nonlinear Control of Omnidirectional Mobile Platforms. Lecture Notes in Computer Science, 2017, , 354-364.	1.0	1
108	Kinematic Nonlinear Control of Aerial Mobile Manipulators. Lecture Notes in Computer Science, 2017, , 740-749.	1.0	9

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109	Real-Time Face Detection Using Artificial Neural Networks. Lecture Notes in Computer Science, 2017, , 590-599.	1.0	2
110	Robotic Stimulation for Fine Motor Skills of the Upper Extremities. , 2017, , .		2
111	Teaching Process for Children with Autism in Virtual Reality Environments. , 2017, , .		9
112	Influence on Significant Learning of the Linear Algebra Subject through Scilab. , 2017, , .		0
113	Teaching-Learning of Basic Language of Signs through Didactic Games. , 2017, , .		4
114	Tourism Marketing through Virtual Environment Experience. , 2017, , .		2
115	Computer Fraud. , 2017, , .		0
116	Teaching-Learning Process through VR Applied to Automotive Engineering. , 2017, , .		15
117	Comparison of control schemes for path tracking of mobile manipulators. International Journal of Modelling, Identification and Control, 2017, 28, 86.	0.2	9
118	Mobile Manipulators for Cooperative Transportation of Objects in Common. Lecture Notes in Computer Science, 2017, , 651-660.	1.0	3
119	Rehabilitation of upper limb with force feedback. , 2016, , .		6
120	Virtual Reality Integration with Force Feedback in Upper Limb Rehabilitation. Lecture Notes in Computer Science, 2016, , 259-268.	1.0	13
121	Immersive Industrial Process Environment from a P&ID Diagram. Lecture Notes in Computer Science, 2016, , 701-712.	1.0	7
122	Automatic control of drip irrigation on hydroponic agriculture: Daniela tomato production. , 2016, , .		11
123	Construction and analysis of PID, fuzzy and predictive controllers in flow system. , 2016, , .		10
124	Nonlinear Controller of Arachnid Mechanism Based on Theo Jansen. Lecture Notes in Computer Science, 2016, , 328-339.	1.0	1
125	Human-Wheelchair System Controlled by Through Brain Signals. Lecture Notes in Computer Science, 2016, , 211-222.	1.0	2
126	Adaptive Control of the Human-Wheelchair System Through Brain Signals. Lecture Notes in Computer Science, 2016, , 223-234.	1.0	5

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127	Modeling Dynamic of the Human-Wheelchair System Applied to NMPC. Lecture Notes in Computer Science, 2016, , 179-190.	1.0	9
128	An approach for automatic segmentation of thermal imaging in Computer Aided Diagnosis. IEEE Latin America Transactions, 2016, 14, 1856-1865.	1.2	20
129	Nonlinear Controller of Quadcopters for Agricultural Monitoring. Lecture Notes in Computer Science, 2015, , 476-487.	1.0	15
130	Construction of a quadcopter for autonomous and teleoperated navigation. , 2015, , .		3
131	Automatic detection of injuries in mammograms using image analysis techniques. , 2015, , .		4
132	Passivity-based visual feedback control with dynamic compensation of mobile manipulators: Stability and $\langle \text{mml:math altimg="si5.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:.. Robotics and Autonomous Systems,$	3.0	13
133	Segmentation of infrared images: A new technology for early detection of breast diseases. , 2015, , .		19
134	Automatic Segmentation and Analysis of Thermograms Using Texture Descriptors for Breast Cancer Detection. , 2015, , .		20
135	Bilateral Control of a Robotic Arm Through Brain Signals. Lecture Notes in Computer Science, 2015, , 355-368.	1.0	6
136	Adaptive cooperative control of multi-mobile manipulators. , 2014, , .		11
137	Robust Control with Dynamic Compensation for Human-Wheelchair System. Lecture Notes in Computer Science, 2014, , 376-389.	1.0	14
138	Bilateral Virtual Control Human-Machine with Kinect Sensor. , 2012, , .		7
139	Multilayer scheme for the adaptive cooperative coordinated control of mobile manipulators. , 2012, , .		4
140	Switching control signal for bilateral tele-operation of a mobile manipulator. , 2011, , .		10
141	3-D path-following with a miniature helicopter using a high-level nonlinear underactuated controller. , 2011, , .		10
142	Adaptive Dynamic Path Following Control of an Unicycle-Like Mobile Robot. Lecture Notes in Computer Science, 2011, , 563-574.	1.0	18