PÃ©ter Korondi

List of Publications by Year in descending order

90 papers	751 citations	1040056 9 h-index	713466 21 g-index
91 all docs	91 docs citations	91 times ranked	519 citing authors

#	Article	IF	Citations
1	Towards the automatic observation and coding of simple behaviours in ethological experiments. , 2021, , .		0
2	Toward Smart Systems: Their Sensing and Control in Industrial Electronics and Applications. IEEE Industrial Electronics Magazine, 2021, 15, 104-114.	2.6	2
3	Towards the automatic observation and evaluation of ethologically inspired Human-Robot Interaction. , 2021, , .		4
4	Bead geometry modeling on uneven base metal surface by fuzzy systems for multi-pass welding. Expert Systems With Applications, 2021, 186, 115356.	7.6	4
5	An Erasmus+ project: Interactive Course for Control Theory (ICCT). , 2021, , .		0
6	Bacterial Memetic Algorithm Trained Fuzzy System-Based Model of Single Weld Bead Geometry. IEEE Access, 2020, 8, 164864-164881.	4.2	10
7	Artificial sounds following biological rules: A novel approach for non-verbal communication in HRI. Scientific Reports, 2020, 10, 7080.	3.3	9
8	Supervised Learning with Small Training Set for Gesture Recognition by Spiking Neural Networks. , 2019, , .		12
9	Magnetic Angular Rate and Gravity Sensor Based Supervised Learning for Positioning Tasks. Sensors, 2019, 19, 5364.	3.8	3
10	Entropy based adaptive image compression procedure. , 2018, , .		1
11	Biologically Inspired Emotional Expressions for Artificial Agents. Frontiers in Psychology, 2018, 9, 1191.	2.1	8
12	ROS-Unity3D based system for monitoring of an industrial robotic process. , 2017, , .		18
13	Ethorobotics: A New Approach to Human-Robot Relationship. Frontiers in Psychology, 2017, 8, 958.	2.1	43
14	Feasible utilization of the inherent characteristics of holonomic mobile robots. Robotics and Autonomous Systems, 2017, 94, 12-24.	5.1	5
15	Optical flow based odometry for mobile robots supported by multiple sensors and sensor fusion. Automatika, 2016, 57, 201-211.	2.0	4
16	Optimizing the automation of an iron ore production line â€" A case study, Part I: Optimal automated logistics. , 2016, , .		1
17	Optimizing the automation of an iron ore production line â€" A case study, part II: Optimal automated quality control. , 2016, , .		2
18	A novel potential field method for path planning of mobile robots by adapting animal motion attributes. Robotics and Autonomous Systems, 2016, 82, 24-34.	5.1	116

#	Article	IF	Citations
19	Review of Man-Machine Interaction in Five-axis Machining with STEP-NC. IFAC-PapersOnLine, 2015, 48, 166-171.	0.9	0
20	Etho-robotics: What kind of behaviour can we learn from the animals?. IFAC-PapersOnLine, 2015, 48, 244-255.	0.9	13
21	Design of legible autonomous leading behavior based on dogs' approach. , 2015, , .		1
22	Effect of Robot Revolution Initiative in Europe â€" Cooperation possibilities for Japan and Europe. IFAC-PapersOnLine, 2015, 48, 160-165.	0.9	6
23	Leading a Person Using Ethologically Inspired Autonomous Robot Behavior. , 2015, , .		7
24	Tensor Product Model Transformation Based Sliding Mode Design for LPV Systems. Studies in Systems, Decision and Control, 2015, , 277-298.	1.0	4
25	Industrial robotics for ERP controlled smart factories. Recent Innovations in Mechatronics, 2015, 2, .	0.1	0
26	Practical Implementation of Second Generation Wavelet Transformation on 2D Images by Transformation Matrixes. Recent Innovations in Mechatronics, 2015, 2, .	0.1	0
27	Emotion Attribution to a Non-Humanoid Robot in Different Social Situations. PLoS ONE, 2014, 9, e114207.	2.5	33
28	Friction with Hysteresis Loop Modeled by Tensor Product. Automatika, 2014, 55, 463-473.	2.0	5
29	Aesthetic marker decoding system for indoor robot navigation. , 2014, , .		3
30	Robot base with holonomic drive. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5715-5720.	0.4	4
31	Universal RT-middleware robot controller. , 2013, , .		2
32	CRM TC covering paper - Robotics trends. , 2013, , .		2
33	New approach for industrial robot controller user interface. , 2013, , .		7
34	Shop-floor controller based on RT-middleware technology. , 2013, , .		0
35	Integrated e-learning modules for Teaching Energy for Sustainable World. , 2013, , .		2
36	Design of social behavior of physical agent in intelligent space. , 2012, , .		3

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37	Safety aspects and guidelines for robot compatible environment. , 2012, , .		1
38	Aesthetic marker design for home robot localization. , 2012, , .		6
39	Compression method for binary tree like bitmaps. , 2012, , .		0
40	Impression evaluation for different behavioral characteristics in ethologically inspired human-robot communication. , 2012, , .		4
41	Building a human-dog interaction inspired emotional engine model. , 2012, , .		5
42	Ethologically inspired human-robot interaction interfaces. , 2012, , .		11
43	Exploratory behavior in ethologically inspired robot behavioral model. , 2012, , .		7
44	Joint Level Collision Avoidance for Industrial Robots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 655-658.	0.4	9
45	Ethologically Inspired Human-Robot Communication for Monitoring Support System in Intelligent Space. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 58-63.	0.4	3
46	A simple interface to the Virtual Collaboration Arena for MATLAB applications. , 2011, , .		0
47	Ethologically inspired robot behavior implementation. , 2011, , .		23
48	Biologically inspired informatics; algorithm for discrete data and signal processing. , 2011, , .		0
49	Implementation of robot behaviors based on ethological approach for monitoring support system in Intelligent Space. , 2011, , .		8
50	Cog Framework - 3D Visualization for Mobile Robot Teleoperation. Advanced Materials Research, 2011, 222, 357-361.	0.3	1
51	Friction compensation of an aeroelastic wing — A TP model transformation based approach. , 2010, , .		3
52	Control performance optimization by convex hull manipulation. , 2010, , .		4
53	Contrast vision-based grasp force feedback in telemanipulation. , 2010, , .		4
54	Control design for impedance model with feedback delay. , 2010, , .		1

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55	Tensor Product model transformation based friction compensation of a mechatronic system. , 2010, , .		2
56	Control of an Embedded System via Internet. IEEE Transactions on Industrial Electronics, 2010, 57, 3324-3333.	7.9	24
57	TP model transformation based sliding mode control design for nonlinear systems. , 2010, , .		2
58	Developmental biology from informatics point of view. , 2010, , .		2
59	Determination of the stability parameter space of a two dimensional aeroelastic system, a TP model-based approach. , 2010, , .		4
60	Tensor product model type polytopic decomposition of a pneumatic system with friction phenomena taken into account. , 2010, , .		1
61	Extending the concept of tensor product modelling for delayed systems. , 2010, , .		1
62	Fuzzy automaton based Human-Robot Interaction. , 2010, , .		10
63	Visual feedback techniques for telemanipulation and system status sensualization. , 2010, , .		1
64	An emotional engine model inspired by human-dog interaction. , 2010, , .		7
65	3D-Based Internet Communication and Control. Studies in Computational Intelligence, 2010, , 47-60.	0.9	5
66	Adaptive, safe mobile robot programming in the Intelligent Space. , 2009, , .		0
67	Vibro-tactile feedback for VR systems. , 2009, , .		24
68	Safe Mobile Robot Control in the iSpace Environment. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 305-310.	0.4	0
69	Interpolation based Fuzzy Automaton for Human-Robot Interaction. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 317-322.	0.4	22
70	Opto-Mechanical Oriented Edge Filtering. , 2008, , .		0
71	Rotating periscope based 3D sensor. , 2008, , .		0
72	Welding trajectory reconstruction based on the Intelligent Space concept. , 2008, , .		18

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73	The development of ultrasonic drilling device. , 2008, , .		1
74	Multilevel control of flexible manufacturing systems. , 2008, , .		15
75	Integrated multimedia educational program of a DC servo system for distant learning. , 2008, , .		6
76	Fuzzy-based camera selection for object tracking in a multi-camera system. , 2008, , .		8
77	Vision Based Robot Programming. , 2008, , .		12
78	Image Processing for Next-Generation Robots. , 2008, , .		3
79	Distributed Image Processing System using the RT-Middleware Framework. , 2007, , .		0
80	Sector Sliding Mode Design Based on Tensor Product Model Transformation. , 2007, , .		10
81	Trajectory Tracking by TP Model Transformation: Case Study of a Benchmark Problem. IEEE Industrial Electronics Magazine, 2007, 54, 1654-1663.	2.6	92
82	Sliding Mode Control Based on Tensor Product Model Transformation. , 2006, , .		2
83	Virtual Master Device for Telemanipulation. , 2006, , .		2
84	Human Walking Behavior Model for Intelligent Space. , 2006, , .		1
85	Robust Position Control for a Pneumatic Cylinder. , 2006, , .		10
86	TRADEâ€ÖFF BETWEEN APPROXIMATION ACCURACY AND COMPLEXITY FOR TS FUZZY MODELS. Asian Journal of Control, 2004, 6, 21-33.	3.0	27
87	Robot Programming in Machining Operations. , 0, , .		12
88	Telemanipulation without Physical Contact in the Intelligent Space. Advanced Materials Research, 0, 222, 362-366.	0.3	0
89	Multiple-Camera Optical Glyph Tracking. Advanced Materials Research, 0, 222, 367-371.	0.3	2
90	Robot Compatible Environment and Conditions. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	1