Alessandro Di Nuovo

List of Publications by Year
in descending order

94	1,356	471371 17	454834 30
papers	citations	h-index	g-index

99	99	99	1073
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Robots in Education and Care of Children with Developmental Disabilities: A Study on Acceptance by Experienced and Future Professionals. International Journal of Social Robotics, 2017, 9, 51-62.	3.1	113
2	Efficient design space exploration for application specific systems-on-a-chip. Journal of Systems Architecture, 2007, 53, 733-750.	2.5	86
3	Robotic Services Acceptance in Smart Environments With Older Adults: User Satisfaction and Acceptability Study. Journal of Medical Internet Research, 2018, 20, e264.	2.1	84
4	The multi-modal interface of Robot-Era multi-robot services tailored for the elderly. Intelligent Service Robotics, 2018, 11, 109-126.	1.6	71
5	Missing data analysis with fuzzy C-Means: A study of its application in a psychological scenario. Expert Systems With Applications, 2011, 38, 6793-6797.	4.4	64
6	Deep Learning Systems for Estimating Visual Attention in Robot-Assisted Therapy of Children with Autism and Intellectual Disability. Robotics, 2018, 7, 25.	2.1	54
7	Making fingers and words count in a cognitive robot. Frontiers in Behavioral Neuroscience, 2014, 8, 13.	1.0	34
8	A cross-cultural study of acceptance and use of robotics by future psychology practitioners. , 2015, , .		34
9	Use of robotics to stimulate imitation in children with Autism Spectrum Disorder: A pilot study in a clinical setting. , 2015, , .		34
10	Technology Used to Recognize Activities of Daily Living in Community-Dwelling Older Adults. International Journal of Environmental Research and Public Health, 2021, 18, 163.	1.2	33
11	A Comparison of Kindergarten Storytelling by Human and Humanoid Robot with Different Social Behavior. , 2017, , .		31
12	The Role of Personality Factors and Empathy in the Acceptance and Performance of a Social Robot for Psychometric Evaluations. Robotics, 2020, 9, 39.	2.1	31
13	Autonomous learning in humanoid robotics through mental imagery. Neural Networks, 2013, 41, 147-155.	3.3	29
14	Are Future Psychologists Willing to Accept and Use a Humanoid Robot in Their Practice? Italian and English Studentsâ€™ Perspective. Frontiers in Psychology, 2019, 10, 2138.	1.1	29
15	â€œRobot, tell me a tale!â€• Interaction Studies, 2020, 21, 220-242.	0.4	28
16	Performance evaluation of efficient multi-objective evolutionary algorithms for design space exploration of embedded computer systems. Applied Soft Computing Journal, 2011, 11, 382-398.	4.1	27
17	A Framework of Hybrid Force/Motion Skills Learning for Robots. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 162-170.	2.6	27
18	Psychometric Evaluation Supported by a Social Robot: Personality Factors and Technology Acceptance. , 2018, , .		26

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19	Assessment of Cognitive skills via Human-robot Interaction and Cloud Computing. Journal of Bionic Engineering, 2019, 16, 526-539.	2.7	26
20	Meeting sustainable development goals via robotics and autonomous systems. Nature Communications, 2022, 13, .	5.8	24
21	Fuzzy decision making in embedded system design. , 2006, , .		18
22	A Social Robot for Cognitive Assessment. , 2018, , .		18
23	Evaluation of a Robot-Assisted Therapy for Children with Autism and Intellectual Disability. Lecture Notes in Computer Science, 2018, , 405-415.	1.0	18
24	Grounding fingers, words and numbers in a cognitive developmental robot. , 2014, , .		17
25	A web based Multi-Modal Interface for elderly users of the Robot-Era multi-robot services. , 2014, , .		17
26	A Deep Learning Neural Network for Number Cognition: A bi-cultural study with the iCub. , 2015, , .		17
27	Daily Gesture Recognition During Human-Robot Interaction Combining Vision and Wearable Systems. IEEE Sensors Journal, 2021, 21, 23568-23577.	2.4	17
28	Lateral specialization in unilateral spatial neglect: a cognitive robotics model. Cognitive Processing, 2016, 17, 321-328.	0.7	16
29	The iCub learns numbers: An embodied cognition study. , 2014, , .		15
30	Developing the knowledge of number digits in a child-like robot. Nature Machine Intelligence, 2019, 1, 594-605.	8.3	15
31	Development of numerical cognition in children and artificial systems: a review of the current knowledge and proposals for multiâ€disciplinary research. Cognitive Computation and Systems, 2019, 1, 2-11.	0.8	14
32	Special issue on artificial mental imagery in cognitive systems and robotics. Adaptive Behavior, 2013, 21, 217-221.	1.1	12
33	Psychology with soft computing: An integrated approach and its applications. Applied Soft Computing Journal, 2008, 8, 829-837.	4.1	11
34	Mental practice and verbal instructions execution: A cognitive robotics study. , 2012, , .		11
35	IBM Cloud Services Enhance Automatic Cognitive Assessment via Human-Robot Interaction. Mechanisms and Machine Science, 2019, , 169-176.	0.3	11
36	Computer-aided assessment of aviation pilots attention: Design of an integrated test and its empirical validation. Applied Computing and Informatics, 2016, 12, 16-26.	3.7	10

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37	Wearable Sensors for Humanâ€“Robot Walking Together. Robotics, 2019, 8, 38.	2.1	10
38	An Explorative Study on Robotics for Supporting Children with Autism Spectrum Disorder during Clinical Procedures. , 2020, , .		10
39	An embodied model for handwritten digits recognition in a cognitive robot. , 2017, , .		9
40	Kindergarten Children Attitude Towards Humanoid Robots: What is the Effect of the First Experience?. , 2019, , .		9
41	A Neural Network model for spatial mental imagery investigation: A study with the humanoid robot platform iCub. , 2011, , .		8
42	Long-Short Term Memory Networks for Modelling Embodied Mathematical Cognition in Robots. , 2018, , .		8
43	A User-Centric Design of Service Robots Speech Interface for the Elderly. Smart Innovation, Systems and Technologies, 2016, , 275-283.	0.5	8
44	Temporal patterns in multi-modal social interaction between elderly users and service robot. Interaction Studies, 2019, 20, 4-24.	0.4	8
45	New Frontiers of Service Robotics for Active and Healthy Ageing. International Journal of Social Robotics, 2016, 8, 353-354.	3.1	7
46	Social Robots as Psychometric Tools for Cognitive Assessment: A Pilot Test. Springer Proceedings in Advanced Robotics, 2019, , 99-112.	0.9	7
47	A Study on Evolutionary Multi-Objective Optimization with Fuzzy Approximation for Computational Expensive Problems. Lecture Notes in Computer Science, 2012, , 102-111.	1.0	7
48	Affect Recognition in Autism: A single case study on integrating a humanoid robot in a standard therapy. Qwerty, 2019, 14, .	0.4	7
49	Perceptions of In-home Monitoring Technology for Activities of Daily Living: Semistructured Interview Study With Community-Dwelling Older Adults. JMIR Aging, 2022, 5, e33714.	1.4	7
50	Genetic Tuning of Fuzzy Rule Deep Structures for Efficient Knowledge Extraction from Medical Data. , 2006, , .		6
51	Intelligent quotient estimation of mental retarded people from different psychometric instruments using artificial neural networks. Artificial Intelligence in Medicine, 2012, 54, 135-145.	3.8	6
52	Model-based reinforcement learning for humanoids: A study on forming rewards with the iCub platform. , 2013, , .		6
53	Usability Evaluation of a Robotic System for Cognitive Testing. , 2019, , .		6
54	Multi-Objective Evolutionary Fuzzy Clustering for High-Dimensional Problems. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	5

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55	An evolutionary fuzzy c-means approach for clustering of bio-informatics databases. , 2008, , .		5
56	Document clustering with evolved search queries. , 2017, , .		5
57	Adapting Robot-Assisted Therapy of Children with Autism and Different Levels of Intellectual Disability. , 2018, , .		5
58	A Deep Neural Network for Finger Counting and Numerosity Estimation. , 2019, , .		5
59	Assistive Multimodal Robotic System (AMRSys): Security and Privacy Issues, Challenges, and Possible Solutions. Applied Sciences (Switzerland), 2022, 12, 2174.	1.3	5
60	An agent-based infrastructure for monitoring aviation pilot's situation awareness. , 2011, , .		4
61	Benefits of fuzzy logic in the assessment of intellectual disability. , 2014, , .		4
62	Guest Editorial Cognitive Agents and Robots for Human-Centered Systems. IEEE Transactions on Cognitive and Developmental Systems, 2017, 9, 1-4.	2.6	4
63	Embodied Mental Imagery in Cognitive Robots. , 2017, , 619-637.		4
64	Experimental Evaluation of a Multi-modal User Interface for a Robotic Service. Lecture Notes in Computer Science, 2016, , 87-98.	1.0	4
65	An Efficient Approach for the Design of Transparent Fuzzy Rule-Based Classifiers. , 2006, , .		3
66	Linguistic Modifiers to Improve the Accuracy-Interpretability Trade-Off in Multi-Objective Genetic Design of Fuzzy Rule Based Classifier Systems. , 2009, , .		3
67	A fuzzy system index to preserve interpretability in deep tuning of fuzzy rule based classifiers. Journal of Intelligent and Fuzzy Systems, 2013, 25, 493-504.	0.8	3
68	Social Development of Artificial Cognition. Intelligent Systems Reference Library, 2016, , 53-72.	1.0	3
69	A robot that counts like a child: a developmental model of counting and pointing. Psychological Research, 2022, 86, 2495-2511.	1.0	3
70	A Database for Learning Numbers by Visual Finger Recognition in Developmental Neuro-Robotics. Frontiers in Neurorobotics, 2021, 15, 619504.	1.6	3
71	On External Measures for Validation of Fuzzy Partitions. Lecture Notes in Computer Science, 2007, , 491-501.	1.0	3
72	An empirical study on integrating a small humanoid robot to support the therapy of children with Autism Spectrum Disorder and Intellectual Disability. Interaction Studies, 2021, 22, 177-211.	0.4	3

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73	High Performance Computing for Embedded System Design: A Case Study. , 2008, , .		2
74	An Effective Methodology to Multi-objective Design of Application Domain-specific Embedded Architectures. , 2009, , .		2
75	Talking About Task Progress: Towards Integrating Task Planning and Dialog for Assistive Robotic Services. Paladyn, 2015, 6, .	1.9	2
76	Artificial Mental Imagery in Cognitive Robots Interaction. , 2015, , .		2
77	A Developmental Neuro-Robotics Approach for Boosting the Recognition of Handwritten Digits. , 2020, , .		2
78	Abstract Concept Learning in Cognitive Robots. Current Robotics Reports, 2021, 2, 1-8.	5.1	2
79	Preliminary Investigation on Visual Finger-Counting with the iCub Robot Cameras and Hands. Lecture Notes in Computer Science, 2019, , 484-488.	1.0	2
80	A Brief Review of Robotics Technologies to Support Social Interventions for Older Users. Smart Innovation, Systems and Technologies, 2021, , 221-232.	0.5	2
81	The VISTA datasets, a combination of inertial sensors and depth cameras data for activity recognition. Scientific Data, 2022, 9, 218.	2.4	2
82	A simulation tool for tuning IP network parameters based on fluid-flow models and parallel genetic algorithms. , 2005, , .		1
83	A Multiobjective Genetic Fuzzy Approach for Intelligent System-level Exploration in Parameterized VLIW Processor Design. , 0, , .		1
84	Feedforward artificial neural network to estimate iq of mental retarded people from different psychometric instruments. , 2009, , .		1
85	Older adultsâ€™ perceptions of Socially Assistive Robots. , 2021, , .		1
86	Ballistic Action Planning in Robotics by means of Artificial Imagery. , 2013, , .		1
87	An Efficient Hierarchical Fuzzy Approach for System Level System-on-a-Chip Design. , 2006, , .		0
88	Recurrent neural network for ballistic actions: A study with the iCub. , 2012, , .		0
89	Cognitive robotics for the modelling of cognitive dysfunctions: A study on unilateral spatial neglect. , 2015, , .		0
90	A Neuro-fuzzy approach to identify a hierarchical fuzzy system for modelling aviation pilot attention. , 2016, , .		0

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91	A comparison of fuzzy approaches for training a humanoid robotic football player. , 2017, , .		0
92	Document Clustering with Evolved Single Word Search Queries. , 2021, , .		0
93	Safety Assessment of a Robotic Arm Motion including Human Factors. , 2021, , .		0
94	Computational Intelligence to Speed-Up Multi-Objective Design Space Exploration of Embedded Systems. , 0, , 265-299.		0