Germano Mcs Veiga

List of Publications by Year in Descending Order

58 papers	368 citations	10 h-index	16 g-index
68 ext. papers	489 ext. citations	2.6 avg, IF	3.63 L-index

#	Paper	IF	Citations
58	Using Simulation to Evaluate a Tube Perception Algorithm for Bin Picking. *Robotics*, **2022**, 11, 46	2.8	3
57	A* Based Routing and Scheduling Modules for Multiple AGVs in an Industrial Scenario. *Robotics*, **2021**, 10, 72	2.8	5
56	Routing and schedule simulation of a biomass energy supply chain through SimPy simulation package. *Applied Computing and Informatics*, **2021**, 17, 36-52	4.2	3
55	Detecting and Solving Tube Entanglement in Bin Picking Operations. *Applied Sciences (Switzerland)*, **2020**, 10, 2264	2.6	7
54	Autonomous Robot Navigation for Automotive Assembly Task: An Industry Use-Case. *Advances in Intelligent Systems and Computing*, **2020**, 645-656	0.4	
53	Perception of Entangled Tubes for Automated Bin Picking. *Advances in Intelligent Systems and Computing*, **2020**, 619-631	0.4	4
52	Applying Software Static Analysis to ROS: The Case Study of the FASTEN European Project. *Advances in Intelligent Systems and Computing*, **2020**, 632-644	0.4	2
51	Development of an Autonomous Mobile Towing Vehicle for Logistic Tasks. *Advances in Intelligent Systems and Computing*, **2020**, 669-681	0.4	3
50	On the development of a collaborative robotic system for industrial coating cells. *International Journal of Advanced Manufacturing Technology*, **2020**, 115, 853	3.2	2
49	ROBIN: An open-source middleware for plug&produce of Cyber-Physical Systems. *International Journal of Advanced Robotic Systems*, **2020**, 17, 172988142091031	1.4	2
48	Autonomous Scene Exploration for Robotics: A Conditional Random View-Sampling and Evaluation Using a Voxel-Sorting Mechanism for Efficient Ray Casting. *Sensors*, **2020**, 20,	3.8	1
47	Collaborative Welding System using BIM for Robotic Reprogramming and Spatial Augmented Reality. *Automation in Construction*, **2019**, 106, 102825	9.6	30
46	Modeling of video projectors in OpenGL for implementing a spatial augmented reality teaching system for assembly operations **2019**,		1
45	Application of the Open Scalable Production System to Machine Tending of Additive Manufacturing Operations by a Mobile Manipulator. *Lecture Notes in Computer Science*, **2019**, 345-356	0.9	5
44	Optimal automatic path planner and design for high redundancy robotic systems. *Industrial Robot*, **2019**, 47, 131-139	1.4	3
43	Testing the vertical and cyber-physical integration of cognitive robots in manufacturing. *Robotics and Computer-Integrated Manufacturing*, **2019**, 57, 213-229	9.2	24
42	SMErobotics: Smart Robots for Flexible Manufacturing. *IEEE Robotics and Automation Magazine*, **2019**, 26, 78-90	3.4	28

41	Online inspection system based on machine learning techniques: real case study of fabric textures classification for the automotive industry. *Journal of Intelligent Manufacturing*, **2019**, 30, 351-361	6.7	13
40	Poses Optimisation Methodology for High Redundancy Robotic Systems. *Advances in Intelligent Systems and Computing*, **2018**, 668-679	0.4	
39	Automatic generation of disassembly sequences and exploded views from solidworks symbolic geometric relationships **2018**,		4
38	Landmark Detection for Docking Tasks. *Advances in Intelligent Systems and Computing*, **2018**, 3-13	0.4	
37	Pose Invariant Object Recognition Using a Bag of Words Approach. *Advances in Intelligent Systems and Computing*, **2018**, 153-164	0.4	
36	Flexible Work Cell Simulator Using Digital Twin Methodology for Highly Complex Systems in Industry 4.0. *Advances in Intelligent Systems and Computing*, **2018**, 541-552	0.4	9
35	Enhancement of Industrial Logistic Systems with Semantic 3D Representations for Mobile Manipulators. *Advances in Intelligent Systems and Computing*, **2018**, 617-628	0.4	3
34	Soft Computing Optimization for the Biomass Supply Chain Operational Planning **2018**,		2
33	Bridging Automation and Robotics: an Interprocess Communication between IEC 61131ᴮ and ROS **2018**,		1
32	A mobile robot based sensing approach for assessing spatial inconsistencies of a logistic system. *Journal of Manufacturing Systems*, **2017**, 43, 129-138	9.1	7
31	Predictive model based architecture for energy biomass supply chains tactical decisions * *This work was supported by the FCT - Funda฿ para a Ciencia e Tecnologia through the PhD Studentship SFRH/BD/98032/2013, program POPH - Programa Operacional Potencial Humano and FSE - Fundo Social Europeu.. *IFAC-PapersOnLine*, **2017**, 50, 7681-7686	0.7	
30	Evaluation of Stanford NER for extraction of assembly information from instruction manuals **2017**,		3
29	A Multilayer Model Predictive Control Methodology Applied to a Biomass Supply Chain Operational Level. *Complexity*, **2017**, 2017, 1-10	1.6	5
28	Validation of a Time Based Routing Algorithm Using a Realistic Automatic Warehouse Scenario. *Advances in Intelligent Systems and Computing*, **2016**, 81-92	0.4	7
27	Assessment of Robotic Picking Operations Using a 6 Axis Force/Torque Sensor. *IEEE Robotics and Automation Letters*, **2016**, 1, 768-775	4.2	8
26	Robust 3/6 DoF self-localization system with selective map update for mobile robot platforms. *Robotics and Autonomous Systems*, **2016**, 76, 113-140	3.5	14
25	A Hybrid Top-Down Bottom-Up Approach for the Detection of Cuboid Shaped Objects. *Lecture Notes in Computer Science*, **2016**, 512-520	0.9	
24	**2016**,		3

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23	A Vertical and Cyber‐Physical Integration of Cognitive Robots in Manufacturing. *Proceedings of the IEEE*, **2016**, 104, 1114-1127	14.3	27
22	The SPIDERobot: A Cable-Robot System for On-site Construction in Architecture **2016**, 230-239		3
21	Evaluation of Depth Sensors for Robotic Applications **2015**,		13
20	Towards an orientation enhanced astar algorithm for robotic navigation **2015**,		18
19	Development of a 3D model based part recognition system for industrial applications: Main challenges **2015**,		2
18	Cable robot for non-standard architecture and construction: A dynamic positioning system **2015**,		4
17	Time enhanced A*: Towards the development of a new approach for Multi-Robot Coordination **2015**,		10
16	Overview of MPC applications in supply chains: Potential use and benefits in the management of forest-based supply chains. *Forest Systems*, **2015**, 24, e039	0.9	5
15	In Vitro Zinc-Air Battery Evaluation for Use in Intraoral Medical Devices. *Journal of Medical Devices, Transactions of the ASME*, **2014**, 8,	1.3	1
14	Increasing flexibility in footwear industrial cells **2014**,		2
13	Gearing up and accelerating cross-fertilization between academic and industrial robotics research in Europe:. *Springer Tracts in Advanced Robotics*, **2014**,	0.5	1
12	The ECHORD Project: A General Perspective. *Springer Tracts in Advanced Robotics*, **2014**, 1-24	0.5	
11	The ECHORD Project: A General Perspective. *Springer Tracts in Advanced Robotics*, **2014**, 1-24	0.5	
10	Evaluation of sensors and algorithms for person detection for personal robots **2013**,		1
9	The ECHORD project proposals analysis ‐Research profiles, collaboration patterns and research topic trends. *Expert Systems With Applications*, **2013**, 40, 7132-7140	7.8	4
8	Interactive Industrial Robot Programming for the Ceramic Industry. *International Journal of Advanced Robotic Systems*, **2013**, 10, 354	1.4	6
7	Recognizing Industrial Manipulated Parts Using the Perfect Match Algorithm. *Communications in Computer and Information Science*, **2013**, 146-157	0.3	1
6	Part Alignment Identification and Adaptive Pick-and-Place Operation for Flat Surfaces. *Communications in Computer and Information Science*, **2013**, 203-212	0.3	2

LIST OF PUBLICATIONS

5	Separation of concerns on the orchestration of operations in flexible manufacturing. *Assembly Automation*, **2012**, 32, 38-50	2.1	5
4	Programming-by-demonstration in the coworker scenario for SMEs. *Industrial Robot*, **2009**, 36, 73-83	1.4	32
3	Experiments with service-oriented architectures for industrial robotic cells programming. *Robotics and Computer-Integrated Manufacturing*, **2009**, 25, 746-755	9.2	24
2	ON THE USE OF SERVICE ORIENTED SOFTWARE PLATFORMS FOR INDUSTRIAL ROBOTIC CELLS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2007**, 40, 109-115		4
1	A kinesthetic teaching approach for automating micropipetting repetitive tasks. *International Journal of Advanced Manufacturing Technology*,1	3.2	