Gianni Ferretti

List of Publications by Year
in descending order

79	1,195	430874	454955
papers	**citations**	18	30
		h-index	**g-index**

80	80	80	877
all docs	**docs citations**	**times ranked**	**citing authors**

#	Article	IF	Citations
1	LFT-Based Identification of Lateral Vehicle Dynamics. IEEE Transactions on Vehicular Technology, 2022, 71, 1349-1362.	6.3	4
2	Early prediction of BMP tests: A step response method for estimating first-order model parameters. Renewable Energy, 2022, 188, 184-194.	8.9	4
3	On consistency of physical and DEVS models in control-targeted DTs: an industrial case study. IFAC-PapersOnLine, 2022, 55, 7-12.	0.9	1
4	Harmonising and integrating the Digital Twins multiverse: A paradigm and a toolset proposal. Computers in Industry, 2021, 132, 103501.	9.9	14
5	Ensuring consistency in scalable-detail models for DT-based control. IFAC-PapersOnLine, 2021, 54, 313-318.	0.9	1
6	An Admissible Heuristic to Improve Convergence in Kinodynamic Planners Using Motion Primitives. , 2020, 4, 175-180.		10
7	A simple and reliable technique to design kinematic-based sideslip estimators. Control Engineering Practice, 2020, 96, 104317.	5.5	5
8	The role of dynamics in digital twins and its problem-tailored representation. IFAC-PapersOnLine, 2020, 53, 10556-10561.	0.9	7
9	Modelling and structure-tailored control of biogas plants fed on agro-food residues. , 2019, , .		0
10	Modelling, Validation and Control of DELIAN Flexible Manipulator. IFAC-PapersOnLine, 2019, 52, 364-369.	0.9	6
11	Ensuring safety in hands-on control through stability analysis of the human-robot interaction. Robotics and Computer-Integrated Manufacturing, 2019, 57, 197-212.	9.9	17
12	Sampling-based optimal kinodynamic planning with motion primitives. Autonomous Robots, 2019, 43, 1715-1732.	4.8	33
13	Towards digital twins through object-oriented modelling: a machine tool case study. IFAC-PapersOnLine, 2018, 51, 613-618.	0.9	24
14	Closed form Newton–Euler dynamic model of flexible manipulators. Robotica, 2017, 35, 1006-1030.	1.9	25
15	Closed-form control oriented model of highly flexible manipulators. Applied Mathematical Modelling, 2017, 52, 174-185.	4.2	4
16	LFT-based MPC Control of an Autonomous Vehicle. IFAC-PapersOnLine, 2016, 49, 7-12.	0.9	12
17	Human-Like Path Planning in the Presence of Landmarks. Lecture Notes in Computer Science, 2016, , 281-287.	1.3	1
18	Generation of human walking paths. Autonomous Robots, 2016, 40, 59-75.	4.8	13

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19	Closed form model of manipulators with highly flexible links. IFAC-PapersOnLine, 2015, 48, 653-654.	0.9	3
20	LFT modelling and identification of anaerobic digestion. Control Engineering Practice, 2015, 36, 1-11.	5.5	12
21	Object-oriented modelling of general flexible multibody systems. Mathematical and Computer Modelling of Dynamical Systems, 2014, 20, 1-22.	2.2	8
22	A Comparative Evaluation of Human Motion Planning Policies. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 12299-12304.	0.4	6
23	Multibody Model of a Motorbike with a Flexible Swingarm. , 2014, , .		1
24	Walk-through programming for robotic manipulators based on admittance control. Robotica, 2013, 31, 1143-1153.	1.9	44
25	Generation of human walking paths. , 2013, , .		15
26	Anaerobic Digestion Models: a Comparative Study. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1052-1057.	0.4	8
27	Flexible logic-based Co-simulation of Modelica models. , 2012, , .		1
28	Towards safe human-robot interaction in robotic cells: An approach based on visual tracking and intention estimation. , 2011, , .		18
29	Towards safe human-robot interaction in robotic cells: An approach based on visual tracking and intention estimation. , 2011, , .		27
30	Numerical issues in integrating holonomic kinematic inversion algorithms for redundant manipulators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 999-1004.	0.4	0
31	Mechatronic Design of the Sun Tracking System of a Linear Fresnel Reflector Solar Plant. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 248-254.	0.4	4
32	Model order reduction for object-oriented models: a control systems perspective. Mathematical and Computer Modelling of Dynamical Systems, 2010, 16, 269-284.	2.2	7
33	Special issue on object-oriented modelling and simulation. Mathematical and Computer Modelling of Dynamical Systems, 2010, 16, 161-164.	2.2	0
34	Some fundamental limitations in the control of two-mass systems. , 2009, , .		7
35	Web-Based Industrial Robot Teleoperation: An Application. , 2009, , 249-266.		0
36	Object-oriented modelling and simulation of a motorcycle. Mathematical and Computer Modelling of Dynamical Systems, 2008, 14, 79-100.	2.2	12

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37	Object-Oriented Modelling of Flexible Beams. Multibody System Dynamics, 2006, 15, 263-286.	2.7	21
38	Special issue on modular physical modelling. Mathematical and Computer Modelling of Dynamical Systems, 2006, 12, 1-3.	2.2	1
39	Modelling and simulation of a gripper with Dymola. Mathematical and Computer Modelling of Dynamical Systems, 2006, 12, 89-102.	2.2	3
40	Object- Oriented Multibody Motorcycle Modelling for Control Systems Prototyping. , 2006, , .		4
41	A MECHATRONIC APPROACH TO THE CONTROL OF MACHINE TOOLS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 228-233.	0.4	0
42	On the use of torque sensors in a space robotics application. , 2005, , .		9
43	Virtual prototyping of mechatronic systems. Annual Reviews in Control, 2004, 28, 193-206.	7.9	51
44	Single and Multistate Integral Friction Models. IEEE Transactions on Automatic Control, 2004, 49, 2292-2297.	5.7	75
45	Impedance Control for Elastic Joints Industrial Manipulators. IEEE Transactions on Automation Science and Engineering, 2004, 20, 488-498.	2.3	110
46	Friction Model Validation in Sliding and Presliding Regimes with High Resolution Encoders. , 2003, , 328-337.		9
47	Virtual Prototyping of Mechatronic Systems in Modelica. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 791-796.	0.4	1
48	ADAPTIVE COMPENSATION OF TORQUE DISTURBANCES IN AN INDUSTRIAL ROBOT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 515-520.	0.4	0
49	SUPPRESSION OF LOAD OSCILLATIONS IN PRECISION SERVOMECHANISMS SENSING ONLY MOTOR POSITION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 97-102.	0.4	1
50	Modeling and experimental analysis of the vibrations in hard disk drives. IEEE/ASME Transactions on Mechatronics, 2002, 7, 152-160.	5.8	6
51	Estimation of NOx Emissions in Thermal Power Plants Using Neural Networks. Journal of Engineering for Gas Turbines and Power, 2001, 123, 465-471.	1.1	32
52	Modelling and Control of Servomechanisms. , 2001, , 27-54.		2
53	Modelling and simulation of an agricultural tracked vehicle. Journal of Terramechanics, 1999, 36, 139-158.	3.1	32
54	Force oscillations in contact motion of industrial robots: an experimental investigation. IEEE/ASME Transactions on Mechatronics, 1999, 4, 86-91.	5.8	19

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55	Modular dynamic virtual-reality modeling of robotic systems. IEEE Robotics and Automation Magazine, 1999, 6, 13-23.	2.0	15
56	Analytical Formulation of the Classical Friction Model for Motion Analysis and Simulation. Mathematical and Computer Modelling of Dynamical Systems, 1999, 5, 43-54.	2.2	13
57	Modeling, identification, and compensation of pulsating torque in permanent magnet AC motors. IEEE Transactions on Industrial Electronics, 1998, 45, 912-920.	7.9	80
58	Impact modeling and control for industrial manipulators. IEEE Control Systems, 1998, 18, 65-71.	0.8	36
59	Toward the implementation of hybrid position/force control in industrial robots. IEEE Transactions on Automation Science and Engineering, 1997, 13, 838-845.	2.3	39
60	Hybrid modeling and simulation for the design of an advanced industrial robot controller. IEEE Robotics and Automation Magazine, 1997, 4, 45-51.	2.0	11
61	Implicit force control for industrial robots in contact with stiff surfaces. Automatica, 1997, 33, 2041-2047.	5.0	27
62	Implicit Force Control for Industrial Robots in Contact with Stiff Surfaces. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 355-360.	0.4	0
63	The Architectural Design of an Industrial Robot Controller. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 367-372.	0.4	1
64	On the identifiability of the time delay with least-squares methods. Automatica, 1996, 32, 449-453.	5.0	29
65	The structured design of an industrial robot controller. Control Engineering Practice, 1996, 4, 239-249.	5.5	22
66	Simulating discontinuous phenomena affecting robot motion. Journal of Intelligent and Robotic Systems: Theory and Applications, 1996, 15, 53-65.	3.4	1
67	On the Stability of Integral Force Control in Case of Contact With Stiff Surfaces. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1995, 117, 547-553.	1.6	27
68	The Recursive Estimation of Time Delay in Sampled-Data Control Systems. Control and Dynamic Systems, 1995, 73, 159-206.	0.1	3
69	Joint Stiffness Estimation Based on Force Sensor Measurements in Industrial Manipulators. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1994, 116, 163-167.	1.6	11
70	ESTIMATION OF RESONANT TRANSFER FUNCTIONS IN THE JOINTS OF AN INDUSTRIAL ROBOT. , 1994, , 337-342.		6
71	Decoupling force and motion control in industrial robots. Control Engineering Practice, 1993, 1, 1019-1027.	5.5	13
72	Monitoring and Diagnosis of a Grinding Process. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1991, 24, 217-222.	0.4	2

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73	Recursive estimation of time delay in sampled systems. Automatica, 1991, 27, 653-661.	5.0	76
74	Robust design of cascade control. Control Systems Magazine, 1990, 10, 21-25.	0.0	28
75	A novel approach to speed control of hydro power stations. Automatica, 1990, 26, 557-565.	5.0	2
76	Experimental analysis of the disturbances affecting contact force in industrial robots. , 0, , .		4
77	Dynamic model of a multiple disk and spindle assembly. , 0, , .		1
78	Load behavior concerned PID control for two-mass servo systems. , 0, , .		15
79	Modular Modelling of Flexible Thin Beams in Multibody Systems. , 0, , .		3