

Holger Voos

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

142
papers

1,193
citations

17
h-index

28
g-index

182
ext. papers

1,589
ext. citations

2.1
avg, IF

5.12
L-index

#	Paper	IF	Citations
142	Nonlinear control of a quadrotor micro-UAV using feedback-linearization 2009 ,		127
141	Observer-based approach for fractional-order chaotic synchronization and communication. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2013 , 3, 442-450	5.2	63
140	Towards an Autonomous Vision-Based Unmanned Aerial System against Wildlife Poachers. <i>Sensors</i> , 2015 , 15, 31362-91	3.8	57
139	Design of unknown input fractional-order observers for fractional-order systems. <i>International Journal of Applied Mathematics and Computer Science</i> , 2013 , 23, 491-500	1.7	44
138	Controller design for quadrotor UAVs using reinforcement learning 2010 ,		38
137	Position Identification in Force-Guided Robotic Peg-in-Hole Assembly Tasks. <i>Procedia CIRP</i> , 2014 , 23, 217-222	1.8	37
136	A Real-Time 3D Path Planning Solution for Collision-Free Navigation of Multirotor Aerial Robots in Dynamic Environments. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2019 , 93, 33-53 ⁹		37
135	New unified . <i>Automatica</i> , 2016 , 65, 43-52	5.7	35
134	Design and simulation of a real-time implementable energy-efficient model-predictive cruise controller for electric vehicles. <i>Journal of the Franklin Institute</i> , 2015 , 352, 603-625	4	32
133	Collision Avoidance Effects on the Mobility of a UAV Swarm Using Chaotic Ant Colony with Model Predictive Control. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2019 , 93, 227-243 ^{2.9}		25
132	Nonlinear tracking and landing controller for quadrotor aerial robots 2010 ,		24
131	Adaptive observer for nonlinear fractional-order systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017 , 31, 314-331	2.8	23
130	Nonlinear and neural network-based control of a small four-rotor aerial robot 2007 ,		23
129	A Fast Model-Predictive Speed Controller for Minimised Charge Consumption of Electric Vehicles. <i>Asian Journal of Control</i> , 2016 , 18, 133-149	1.7	21
128	Vision based fuzzy control autonomous landing with UAVs: From V-REP to real experiments 2015 ,		20
127	Static output feedback H _∞ control for a fractional-order glucose-insulin system. <i>International Journal of Control, Automation and Systems</i> , 2015 , 13, 798-807	2.9	19
126	A real-time model predictive position control with collision avoidance for commercial low-cost quadrotors 2016 ,		17

125	Mixed Integer linear programming and constraint programming models for the online printing shop scheduling problem. <i>Computers and Operations Research</i> , 2020 , 123, 105020	4.6	16
124	A Survey of Computer Vision Methods for 2D Object Detection from Unmanned Aerial Vehicles. <i>Journal of Imaging</i> , 2020 , 6,	3.1	16
123	When I Look into Your Eyes: A Survey on Computer Vision Contributions for Human Gaze Estimation and Tracking. <i>Sensors</i> , 2020 , 20,	3.8	15
122	Contact-state modelling in force-controlled robotic peg-in-hole assembly processes of flexible objects using optimised Gaussian mixtures. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017 , 231, 1448-1463	2.4	14
121	A Real-Time Approach for Chance-Constrained Motion Planning With Dynamic Obstacles. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 3620-3625	4.2	14
120	A new polytopic approach for the unknown input functional observer design. <i>International Journal of Control</i> , 2018 , 91, 658-677	1.5	14
119	Nonlinear State-Dependent Riccati Equation Control of a Quadrotor UAV 2006 ,		14
118	Nonlinear model predictive extended eco-cruise control for battery electric vehicles 2016 ,		14
117	Adaptive sliding mode fuzzy control for unknown robots with arbitrarily-switched constraints. <i>Mechatronics</i> , 2015 , 30, 174-186	3	12
116	Adaptive control of Aerial Manipulation Vehicle 2014 ,		11
115	A model predictive approach for cyber-attack detection and mitigation in control systems 2013 ,		11
114	Vision-Based Steering Control, Speed Assistance and Localization for Inner-City Vehicles. <i>Sensors</i> , 2016 , 16,	3.8	11
113	Impact of different spacing policies for adaptive cruise control on traffic and energy consumption of electric vehicles 2016 ,		11
112	An efficient nonlinear model-predictive eco-cruise control for electric vehicles 2013 ,		10
111	Declarative Specification of Robot Perception Architectures. <i>Lecture Notes in Computer Science</i> , 2014 , 291-302	0.9	10
110	Nonlinear Model Predictive Control for Ecological Driver Assistance Systems in Electric Vehicles. <i>Robotics and Autonomous Systems</i> , 2019 , 112, 291-303	3.5	10
109	A discrete-time nonlinear state observer for the anaerobic digestion process. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 1279-1301	3.6	10
108	2012 ,		9

107	Entwurf eines Flugreglers für ein vierrotoriges unbemanntes Fluggerät Control Systems Design for a Quadrotor UAV. <i>Automatisierungstechnik</i> , 2009 , 57, 423-431	0.8	9
106	Nonlinear protocols for distributed consensus in directed networks of dynamic agents. <i>Journal of the Franklin Institute</i> , 2015 , 352, 3645-3669	4	8
105	An extended flexible job shop scheduling problem with parallel operations. <i>ACM SIGAPP Applied Computing Review: A Publication of the Special Interest Group on Applied Computing</i> , 2018 , 18, 46-56	0.7	8
104	Model Predictive Control for Aerial Collision Avoidance in Dynamic Environments 2018 ,		8
103	Area exploration with a swarm of UAVs combining deterministic chaotic ant colony mobility with position MPC 2017 ,		8
102	Nonlinear state-dependent Riccati equation control of a quadrotor UAV 2006 ,		8
101	Attack-tolerant control and observer-based trajectory tracking for Cyber-Physical Systems. <i>European Journal of Control</i> , 2019 , 47, 30-36	2.5	8
100	Model predictive cooperative localization control of multiple UAVs using potential function sensor constraints. <i>Autonomous Robots</i> , 2019 , 43, 153-178	3	8
99	A novel model-predictive cruise controller for electric vehicles and energy-efficient driving 2014 ,		7
98	Glucose-Insulin System Based on Minimal Model: A Realistic Approach 2015 ,		7
97	Modeling and Control of Aerial Manipulation Vehicle with Visual sensor*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 303-309		7
96	A modularization approach for nonlinear model predictive control of distributed fast systems 2016 ,		6
95	Setting up a testbed for UAV vision based control using V-REP & ROS: A case study on aerial visual inspection 2014 ,		6
94	Cyber-attack detection based on controlled invariant sets 2014 ,		6
93	Real-time graph-based SLAM in unknown environments using a small UAV 2017 ,		6
92	A SysML-based integration framework for the engineering of mechatronic systems 2010 ,		6
91	Resource Allocation in Continuous Production using Market-Based Multi-Agent Systems 2007 ,		6
90	Observer-based approach for fractional-order chaotic synchronization and communication 2013 ,		6

89	A Nonlinear observer-based trajectory tracking method applied to an anaerobic digestion process. <i>Journal of Process Control</i> , 2019 , 75, 120-135	3.9	5
88	A Reference Architecture for Deploying Component-Based Robot Software and Comparison with Existing Tools 2018 ,		5
87	A flexible move blocking strategy to speed up model-predictive control while retaining a high tracking performance 2016 ,		5
86	Safety oriented software engineering process for autonomous robots 2013 ,		5
85	An algebraic detection approach for control systems under multiple stochastic cyber-attacks. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2015 , 2, 258-266	7	5
84	In-situ unmanned aerial vehicle (UAV) sensor calibration to improve automatic image orthorectification 2010 ,		5
83	Operational space control of a lightweight robotic arm actuated by shape memory alloy wires: A comparative study. <i>Journal of Intelligent Material Systems and Structures</i> , 2019 , 30, 1368-1384	2.3	5
82	Metaheuristics for the online printing shop scheduling problem. <i>European Journal of Operational Research</i> , 2021 , 293, 419-441	5.6	5
81	Comparative study of genetic and discrete firefly algorithm for combinatorial optimization 2018 ,		4
80	Cyber Security and Vulnerability Analysis of Networked Control System subject to False-Data injection 2018 ,		4
79	Generalized H _∞ observers design for systems with unknown inputs 2013 ,		4
78	Fast stochastic non-linear model predictive control for electric vehicle advanced driver assistance systems 2017 ,		4
77	Real time degradation identification of UAV using machine learning techniques 2017 ,		4
76	1999 ,		4
75	A Stochastic Cyber-Attack Detection Scheme for Stochastic Control Systems Based on Frequency-Domain Transformation Technique. <i>Lecture Notes in Computer Science</i> , 2014 , 209-222	0.9	4
74	Nonlinear observer-based control with application to an anaerobic digestion process. <i>European Journal of Control</i> , 2019 , 45, 74-84	2.5	4
73	Ecological Advanced Driver Assistance System for Optimal Energy Management in Electric Vehicles. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2020 , 12, 92-109	2.6	4
72	Implementation and validation of an event-based real-time nonlinear model predictive control framework with ROS interface for single and multi-robot systems 2017 ,		3

71	On the robustness of linear and non-linear fractional-order systems with non-linear uncertain parameters. <i>IMA Journal of Mathematical Control and Information</i> , 2016 , 33, 997-1014	1.1	3
70	A contribution to cyber-security of networked control systems: An event-based control approach 2017 ,		3
69	Cooperative localization of unmanned aerial vehicles in ROS □The Atlas node 2017 ,		3
68	A Formal Modeling Framework for Anaerobic Digestion Systems 2015 ,		3
67	Context-based selection and execution of robot perception graphs 2015 ,		3
66	Decentralized dynamic-observer-based control for large scale nonlinear uncertain systems 2015 ,		3
65	Gaussian filtering for enhanced impedance parameters identification in robotic assembly processes 2015 ,		3
64	Using the Cross-Entropy method for control optimization: A case study of see-and-avoid on unmanned aerial vehicles 2014 ,		3
63	Hybrid Output Feedback Control for a Fractional-Order Glucose-Insulin System. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 266-271		3
62	Action planning for autonomous systems with respect to safety aspects 2010 ,		3
61	Towards learning of safety knowledge from human demonstrations 2012 ,		3
60	A tracking error control approach for model predictive position control of a quadrotor with time varying reference 2016 ,		3
59	Graph-based software knowledge: Storage and semantic querying of domain models for run-time adaptation 2016 ,		3
58	Vision-Based Aircraft Pose Estimation for UAVs Autonomous Inspection without Fiducial Markers 2019 ,		3
57	A Contribution to Cyber-Physical Systems Security: an Event-based Attack-tolerant Control Approach. <i>IFAC-PapersOnLine</i> , 2018 , 51, 957-962	0.7	3
56	Risk-averse Stochastic Nonlinear Model Predictive Control for Real-time Safety-critical Systems. <i>IFAC-PapersOnLine</i> , 2017 , 50, 5991-5997	0.7	2
55	Observer-Based Event-Triggered Attack-Tolerant Control Design for Cyber-Physical Systems 2019 , 439-462		2
54	An application of linear algebra theory in networked control systems: stochastic cyber-attacks detection approach. <i>IMA Journal of Mathematical Control and Information</i> , 2016 , 33, 1081-1102	1.1	2

53	Chaos in a fractional-order cancer system 2014 ,		2
52	H _∞ decentralized dynamic-observer-based control for large-scale uncertain nonlinear systems 2014 ,		2
51	Robust H _∞ cyber-attacks estimation for control systems 2014 ,		2
50	H _∞ dynamic observer design for linear time invariant systems 2014 ,		2
49	2012 ,		2
48	Visual Attitude Estimation for Low-Cost Personal Remote Sensing Systems 2011 ,		2
47	Robust Exploration/Exploitation Trade-Offs in Safety-Critical Applications. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 660-665		2
46	Faster Visual-Based Localization with Mobile-PoseNet. <i>Lecture Notes in Computer Science</i> , 2019 , 219-230.	0.9	2
45	A Preliminary Study on the Automatic Visual based Identification of UAV Pilots from Counter UAVs 2020 ,		2
44	The NOAH Project: Giving a Chance to Threatened Species in Africa with UAVs. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2014 , 198-208	0.2	2
43	Lightweight robotic arm actuated by shape memory alloy (SMA) wires 2016 ,		2
42	Control of aerial manipulation vehicle in operational space 2016 ,		2
41	Evasive Maneuvering for UAVs: An MPC Approach. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 829-840	0.4	2
40	Robust Online Obstacle Detection and Tracking for Collision-Free Navigation of Multirotor UAVs in Complex Environments 2018 ,		2
39	Towards trajectory planning from a given path for multirotor aerial robots trajectory tracking 2018 ,		2
38	A Mathematical Model and a Firefly Algorithm for an Extended Flexible Job Shop Problem with Availability Constraints. <i>Lecture Notes in Computer Science</i> , 2018 , 548-560	0.9	2
37	Model predictive control for cooperative control of space robots 2017 ,		1
36	Effects of permanent bounded cyber-attacks on networked control systems 2015 ,		1

35	Deadzone-Quadratic Penalty Function for Predictive Extended Cruise Control with Experimental Validation. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 446-459	0.4	1
34	Automated Decision Support IoT Framework 2016 ,		1
33	Deep learning based semantic situation awareness system for multirotor aerial robots using LIDAR 2019 ,		1
32	A Polytopic Observer Design Approach for Landing Control of a Quadrotor UAV. <i>IFAC-PapersOnLine</i> , 2017 , 50, 9753-9759	0.7	1
31	A class of Improved Wake Interaction Model for the coordinated control of wind farms 2015 ,		1
30	An approach for a distributed world model with QoS-based perception algorithm adaptation 2015 ,		1
29	Model-Free Robust Adaptive Control for flexible rubber objects manipulation 2015 ,		1
28	A wake interaction model for the coordinated control of Wind Farms 2015 ,		1
27	Uncertainty quantification of Group Synchronization and control of a new class of adaptive complex dynamical network with brownian motion and Time-varying Delay 2014 ,		1
26	Exponential synchronization for a new class of complex dynamical network with PIPC and hybrid TVD 2014 ,		1
25	Group synchronization and control of a new class of adaptive complex network with Brownian Motion and Time-varying Delay 2014 ,		1
24	A multilayer software architecture for safe autonomous robots 2014 ,		1
23	Utilizing dynamic hazard knowledge for risk sensitive action planning of autonomous robots 2012 ,		1
22	Indoor navigation for quadrotor UAVS using schematic environment maps 2010 ,		1
21	New Results on the Numerical Stability of the Stochastic Fluid Flow Model Analysis. <i>Lecture Notes in Computer Science</i> , 2000 , 446-457	0.9	1
20	Adaptive Control of Robotic arm with Hysteretic Joint 2016 ,		1
19	Adaptive Control of Hysteretic Robotic arm in Operational Space 2016 ,		1
18	Arguing Security of Autonomous Robots 2019 ,		1

17	A case study on the impact of masking moving objects on the camera pose regression with CNNs 2019 ,		1
16	Video Indexing Using Face Appearance and Shot Transition Detection 2019 ,		1
15	Real-Time Human Head Imitation for Humanoid Robots 2019 ,		1
14	A Perspective of Security for Mobile Service Robots. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 88-100	0.4	1
13	Experimental Validation of Adaptive Control for a Shape Memory Alloy Actuated Lightweight Robotic Arm 2018 ,		1
12	Stochastic Optimum Energy Management for Advanced Transportation Network. <i>IFAC-PapersOnLine</i> , 2018 , 51, 317-322	0.7	1
11	Model-Driven Interaction Design for Social Robots. <i>Lecture Notes in Computer Science</i> , 2018 , 219-224	0.9	0
10	Heuristic Procedure For The Centralized Control Of EV Charging In LV Networks. <i>IEEE Latin America Transactions</i> , 2019 , 17, 453-461	0.7	0
9	Deep Reinforcement Learning-based Continuous Control for Multicopter Systems 2019 ,		0
8	Trajectory Tracking for Aerial Robots: an Optimization-Based Planning and Control Approach. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020 , 100, 531-574	2.9	0
7	An LMI-Based H _∞ Discrete-Time Nonlinear State Observer Design for an Anaerobic Digestion Model. <i>IFAC-PapersOnLine</i> , 2017 , 50, 11547-11552	0.7	
6	Observer Design for a Nonlinear Minimal Model of Glucose Disappearance and Insulin Kinetics. <i>Communications in Computer and Information Science</i> , 2015 , 261-273	0.3	
5	DESIGN AND CONTROL OF A MOBILE EXPLORATION ROBOT. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 950-955		
4	On-board UAV Pilots Identification in Counter UAV Images. <i>Communications in Computer and Information Science</i> , 2022 , 414-430	0.3	
3	Nonlinear Landing Control for Quadrotor UAVs. <i>Informatik Aktuell</i> , 2009 , 113-120	0.3	
2	Ocular Biometrics Recognition by Analyzing Human Exploration during Video Observations. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4548	2.6	
1	Global Sensitivity Analysis of Economic Model Predictive Longitudinal Motion Control of a Battery Electric Vehicle. <i>Electronics (Switzerland)</i> , 2022 , 11, 1574	2.6	