

Holger Voos

List of Publications by Year in Descending Order

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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	On-board UAV Pilots Identification in Counter UAV Images. <i>Communications in Computer and Information Science</i> , 2022 , 414-430	0.3	
141	Global Sensitivity Analysis of Economic Model Predictive Longitudinal Motion Control of a Battery Electric Vehicle. <i>Electronics (Switzerland)</i> , 2022 , 11, 1574	2.6	
140	Metaheuristics for the online printing shop scheduling problem. <i>European Journal of Operational Research</i> , 2021 , 293, 419-441	5.6	5
139	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
138	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
137	A Preliminary Study on the Automatic Visual based Identification of UAV Pilots from Counter UAVs 2020 ,		2
136	Ocular Biometrics Recognition by Analyzing Human Exploration during Video Observations. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4548	2.6	
135	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
134	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
133	A Survey of Computer Vision Methods for 2D Object Detection from Unmanned Aerial Vehicles. <i>Journal of Imaging</i> , 2020 , 6,	3.1	16
132	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
131	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
130	Observer-Based Event-Triggered Attack-Tolerant Control Design for Cyber-Physical Systems 2019 , 439-462		2
129	Deep learning based semantic situation awareness system for multirotor aerial robots using LIDAR 2019 ,		1
128	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
127	Deep Reinforcement Learning-based Continuous Control for Multicopter Systems 2019 ,		0
126	Faster Visual-Based Localization with Mobile-PoseNet. <i>Lecture Notes in Computer Science</i> , 2019 , 219-230	0.9	2

125	Arguing Security of Autonomous Robots 2019 ,		1
124	A case study on the impact of masking moving objects on the camera pose regression with CNNs 2019 ,		1
123	Video Indexing Using Face Appearance and Shot Transition Detection 2019 ,		1
122	Real-Time Human Head Imitation for Humanoid Robots 2019 ,		1
121	Vision-Based Aircraft Pose Estimation for UAVs Autonomous Inspection without Fiducial Markers 2019 ,		3
120	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
119	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
118	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
117	Nonlinear observer-based control with application to an anaerobic digestion process. <i>European Journal of Control</i> , 2019 , 45, 74-84	2.5	4
116	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
115	Model predictive cooperative localization control of multiple UAVs using potential function sensor constraints. <i>Autonomous Robots</i> , 2019 , 43, 153-178	3	8
114	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
113	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	2.9	37
112	Model-Driven Interaction Design for Social Robots. <i>Lecture Notes in Computer Science</i> , 2018 , 219-224	0.9	0
111	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
110	A Reference Architecture for Deploying Component-Based Robot Software and Comparison with Existing Tools 2018 ,		5
109	A new polytopic approach for the unknown input functional observer design. <i>International Journal of Control</i> , 2018 , 91, 658-677	1.5	14
108	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

107	Comparative study of genetic and discrete firefly algorithm for combinatorial optimization 2018 ,		4
106	Cyber Security and Vulnerability Analysis of Networked Control System subject to False-Data injection 2018 ,		4
105	Model Predictive Control for Aerial Collision Avoidance in Dynamic Environments 2018 ,		8
104	A Perspective of Security for Mobile Service Robots. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 88-100	0.4	1
103	Evasive Maneuvering for UAVs: An MPC Approach. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 829-840	0.4	2
102	Experimental Validation of Adaptive Control for a Shape Memory Alloy Actuated Lightweight Robotic Arm 2018 ,		1
101	Robust Online Obstacle Detection and Tracking for Collision-Free Navigation of Multirotor UAVs in Complex Environments 2018 ,		2
100	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
99	Stochastic Optimum Energy Management for Advanced Transportation Network. <i>IFAC-PapersOnLine</i> , 2018 , 51, 317-322	0.7	1
98	Towards trajectory planning from a given path for multirotor aerial robots trajectory tracking 2018 ,		2
97	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
96	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
95	Adaptive observer for nonlinear fractional-order systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017 , 31, 314-331	2.8	23
94	Model predictive control for cooperative control of space robots 2017 ,		1
93	Risk-averse Stochastic Nonlinear Model Predictive Control for Real-time Safety-critical Systems. <i>IFAC-PapersOnLine</i> , 2017 , 50, 5991-5997	0.7	2
92	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	
91	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
90	A contribution to cyber-security of networked control systems: An event-based control approach 2017 ,		3

89	Real-time graph-based SLAM in unknown environments using a small UAV 2017 ,		6
88	Fast stochastic non-linear model predictive control for electric vehicle advanced driver assistance systems 2017 ,		4
87	Area exploration with a swarm of UAVs combining deterministic chaotic ant colony mobility with position MPC 2017 ,		8
86	Real time degradation identification of UAV using machine learning techniques 2017 ,		4
85	A Polytopic Observer Design Approach for Landing Control of a Quadrotor UAV. <i>IFAC-PapersOnLine</i> , 2017 , 50, 9753-9759	0.7	1
84	Cooperative localization of unmanned aerial vehicles in ROS □The Atlas node 2017 ,		3
83	A modularization approach for nonlinear model predictive control of distributed fast systems 2016 ,		6
82	Automated Decision Support IoT Framework 2016 ,		1
81	A real-time model predictive position control with collision avoidance for commercial low-cost quadrotors 2016 ,		17
80	A flexible move blocking strategy to speed up model-predictive control while retaining a high tracking performance 2016 ,		5
79	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
78	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
77	New unified . <i>Automatica</i> , 2016 , 65, 43-52	5.7	35
76	Vision-Based Steering Control, Speed Assistance and Localization for Inner-City Vehicles. <i>Sensors</i> , 2016 , 16,	3.8	11
75	A tracking error control approach for model predictive position control of a quadrotor with time varying reference 2016 ,		3
74	Lightweight robotic arm actuated by shape memory alloy (SMA) wires 2016 ,		2
73	Graph-based software knowledge: Storage and semantic querying of domain models for run-time adaptation 2016 ,		3
72	Control of aerial manipulation vehicle in operational space 2016 ,		2

71	Adaptive Control of Robotic arm with Hysteretic Joint 2016 ,		1
70	Adaptive Control of Hysteretic Robotic arm in Operational Space 2016 ,		1
69	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
68	Nonlinear model predictive extended eco-cruise control for battery electric vehicles 2016 ,		14
67	Impact of different spacing policies for adaptive cruise control on traffic and energy consumption of electric vehicles 2016 ,		11
66	Vision based fuzzy control autonomous landing with UAVs: From V-REP to real experiments 2015 ,		20
65	Adaptive sliding mode fuzzy control for unknown robots with arbitrarily-switched constraints. <i>Mechatronics</i> , 2015 , 30, 174-186	3	12
64	Effects of permanent bounded cyber-attacks on networked control systems 2015 ,		1
63	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
62	Nonlinear protocols for distributed consensus in directed networks of dynamic agents. <i>Journal of the Franklin Institute</i> , 2015 , 352, 3645-3669	4	8
61	A Formal Modeling Framework for Anaerobic Digestion Systems 2015 ,		3
60	Glucose-Insulin System Based on Minimal Model: A Realistic Approach 2015 ,		7
59	A class of Improved Wake Interaction Model for the coordinated control of wind farms 2015 ,		1
58	Towards an Autonomous Vision-Based Unmanned Aerial System against Wildlife Poachers. <i>Sensors</i> , 2015 , 15, 31362-91	3.8	57
57	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
56	An approach for a distributed world model with QoS-based perception algorithm adaptation 2015 ,		1
55	Context-based selection and execution of robot perception graphs 2015 ,		3
54	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

53	Model-Free Robust Adaptive Control for flexible rubber objects manipulation 2015,		1
52	A wake interaction model for the coordinated control of Wind Farms 2015,		1
51	Decentralized dynamic-observer-based control for large scale nonlinear uncertain systems 2015,		3
50	Gaussian filtering for enhanced impedance parameters identification in robotic assembly processes 2015,		3
49	Observer Design for a Nonlinear Minimal Model of Glucose Disappearance and Insulin Kinetics. <i>Communications in Computer and Information Science, 2015, 261-273</i>	0.3	
48	A novel model-predictive cruise controller for electric vehicles and energy-efficient driving 2014,		7
47	Setting up a testbed for UAV vision based control using V-REP & ROS: A case study on aerial visual inspection 2014,		6
46	Cyber-attack detection based on controlled invariant sets 2014,		6
45	Chaos in a fractional-order cancer system 2014,		2
44	Position Identification in Force-Guided Robotic Peg-in-Hole Assembly Tasks. <i>Procedia CIRP, 2014, 23, 217-222</i>	1.8	37
43	H _∞ decentralized dynamic-observer-based control for large-scale uncertain nonlinear systems 2014,		2
42	Using the Cross-Entropy method for control optimization: A case study of see-and-avoid on unmanned aerial vehicles 2014,		3
41	Robust H _∞ cyber-attacks estimation for control systems 2014,		2
40	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
39	H _∞ dynamic observer design for linear time invariant systems 2014,		2
38	Exponential synchronization for a new class of complex dynamical network with PIPC and hybrid TVD 2014,		1
37	Adaptive control of Aerial Manipulation Vehicle 2014,		11
36	Group synchronization and control of a new class of adaptive complex network with Brownian Motion and Time-varying Delay 2014,		1

35	A multilayer software architecture for safe autonomous robots 2014 ,		1
34	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
33	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
32	Declarative Specification of Robot Perception Architectures. <i>Lecture Notes in Computer Science</i> , 2014 , 291-302	0.9	10
31	Generalized H _∞ observers design for systems with unknown inputs 2013 ,		4
30	Safety oriented software engineering process for autonomous robots 2013 ,		5
29	An efficient nonlinear model-predictive eco-cruise control for electric vehicles 2013 ,		10
28	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
27	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
26	A model predictive approach for cyber-attack detection and mitigation in control systems 2013 ,		11
25	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
24	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
23	Observer-based approach for fractional-order chaotic synchronization and communication 2013 ,		6
22	Utilizing dynamic hazard knowledge for risk sensitive action planning of autonomous robots 2012 ,		1
21	2012 ,		9
20	2012 ,		2
19	Towards learning of safety knowledge from human demonstrations 2012 ,		3
18	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

17	Visual Attitude Estimation for Low-Cost Personal Remote Sensing Systems 2011,		2
16	A SysML-based integration framework for the engineering of mechatronic systems 2010,		6
15	In-situ unmanned aerial vehicle (UAV) sensor calibration to improve automatic image orthorectification 2010,		5
14	Action planning for autonomous systems with respect to safety aspects 2010,		3
13	Indoor navigation for quadrotor UAVS using schematic environment maps 2010,		1
12	Nonlinear tracking and landing controller for quadrotor aerial robots 2010,		24
11	Controller design for quadrotor UAVs using reinforcement learning 2010,		38
10	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
9	Nonlinear control of a quadrotor micro-UAV using feedback-linearization 2009,		127
8	Nonlinear Landing Control for Quadrotor UAVs. <i>Informatik Aktuell</i> , 2009 , 113-120	0.3	
7	Nonlinear and neural network-based control of a small four-rotor aerial robot 2007,		23
6	Resource Allocation in Continuous Production using Market-Based Multi-Agent Systems 2007,		6
5	Nonlinear state-dependent Riccati equation control of a quadrotor UAV 2006,		8
4	DESIGN AND CONTROL OF A MOBILE EXPLORATION ROBOT. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 950-955		
3	Nonlinear State-Dependent Riccati Equation Control of a Quadrotor UAV 2006,		14
2	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
1	1999,		4