

Axel Hahn

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

573
citations

759233

12
h-index

677142

22
g-index

62
all docs

62
docs citations

62
times ranked

421
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Model Predictive Control for trajectory tracking and collision avoidance of underactuated vessels with disturbances. Ocean Engineering, 2018, 160, 168-180.	4.3	130
2	Identification-based simplified model of large container ships using support vector machines and artificial bee colony algorithm. Applied Ocean Research, 2017, 68, 249-261.	4.1	60
3	Identification-based controller design using cloud model for course-keeping of ships in waves. Engineering Applications of Artificial Intelligence, 2018, 75, 22-35.	8.1	33
4	Adaptive modeling of maritime autonomous surface ships with uncertainty using a weighted LS-SVR robust to outliers. Ocean Engineering, 2020, 200, 107053.	4.3	32
5	Optimized support vector regression algorithm-based modeling of ship dynamics. Applied Ocean Research, 2019, 90, 101842.	4.1	24
6	Change management issues in Federated ERP systems: an approach for identifying requirements and possible solutions. International Journal of Information Systems and Change Management, 2006, 1, 318.	0.2	22
7	NMPC-based Trajectory Tracking and Collision Avoidance of Underactuated Vessels with Elliptical Ship Domain**This research is supported by the State of Lower Saxony as part of the project Critical Systems Engineering for Socio-Technical Systems (CSE).. IFAC-PapersOnLine, 2016, 49, 22-27.	0.9	18
8	From Automation System to Autonomous System: An Architecture Perspective. Journal of Marine Science and Engineering, 2021, 9, 645.	2.6	18
9	Probabilistic Collision Avoidance for Vessels. IFAC-PapersOnLine, 2015, 48, 69-74.	0.9	16
10	Parameter Identification of Ship Maneuvering Models Using Recursive Least Square Method Based on Support Vector Machines. TransNav, 2017, 11, 23-29.	0.6	16
11	A review of damage assessment models in the maritime domain. Ships and Offshore Structures, 2017, 12, S31-S54.	1.9	15
12	Model based Development of Health, Safety, and Environment Plans and Risk Assessment for Offshore Operations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 49-54.	0.4	14
13	Towards Marine Collision Avoidance Based on Automatic Route Exchange. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 103-107.	0.4	12
14	NMPC-based trajectory tracking and collision avoidance of unmanned surface vessels with rule-based colregs confinement. , 2016, , .		12
15	Governing Smart Business Networks by Means of Distributed Innovation Management. , 2005, , 307-319.		10
16	Learning from automotive: Testing maritime assistance systems up to autonomous vessels. , 2017, , .		9
17	Nonlinear Model Predictive Control for Tracking of Underactuated Vessels under Input Constraints. , 2015, , .		8
18	Test Bed for Safety Assessment of New e-Navigation Systems. International Journal of E-Navigation and Maritime Economy, 2014, 1, 14-28.	1.2	7

#	ARTICLE	IF	CITATIONS
19	A simulation based approach to forecast a demand load curve for a container terminal using battery powered vehicles. , 2014, , .		7
20	Requirements for e-Navigation Architectures. International Journal of E-Navigation and Maritime Economy, 2016, 5, 1-20.	1.2	7
21	Testbed architecture for maritime cyber physical systems. , 2017, , .		7
22	Detecting maneuvers in maritime observation data with CUSUM. , 2017, , .		7
23	A research port test bed based on distributed optical sensors and sensor fusion framework for ad hoc situational awareness. Journal of Sensors and Sensor Systems, 2017, 6, 37-52.	0.9	7
24	Towards an User-Friendly Ontology Design Methodology. , 2009, , .		6
25	Towards Critical-Scenario Based Testing With Maritime Observation Data. , 2018, , .		6
26	Predictive Path Following and Collision Avoidance of Autonomous Vessels in Narrow Channels. IFAC-PapersOnLine, 2021, 54, 245-251.	0.9	5
27	Ontology based metrics – applying business intelligence on PLM. International Journal of Product Lifecycle Management, 2008, 3, 308.	0.3	4
28	Maritime Unmanned Vehicle Cruise Path Planning for Maritime Information Collection**The paper is supported by the Ministry of Science and Culture of Lower Saxony for funding us with the Graduate school Safe Automation of Maritime Systems (SAMS), the National Science Foundation of China (NSFC) through Grant No. 51579204, the self-determined and innovative research funds of WUT (No.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 36	0.9	4
29	An Approach for Safety Assessment of Highly Automated Systems Applied to a Maritime Traffic Alert and Collision Avoidance System. , 2019, , .		4
30	Supporting qualification: Safety standard compliant process planning and monitoring. , 2010, , .		3
31	Offshore Training Simulations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 37-42.	0.4	3
32	Motion safety for vessels: An approach based on Inevitable Collision States. , 2015, , .		3
33	Ocean surface water currents by large-scale particle image velocimetry technique. , 2017, , .		3
34	Towards a Model-Based Multi-Layered Approach to Describe Traffic Scenarios on a Technical Level. Journal of Marine Science and Engineering, 2021, 9, 673.	2.6	3
35	Towards Recertification of Modular Updates in Integrated Maritime Systems of Systems. Lecture Notes in Computer Science, 2020, , 50-63.	1.3	3
36	Risk Assessment of Human Machine Interaction for Control and eNavigation Systems of Marine Vessels. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 368-373.	0.4	2

#	ARTICLE	IF	CITATIONS
37	Trajectory generation for vessels using a reachability graph. , 2015, , .		2
38	From Nautical Path Planning in ECDIS to Their Realisation Applied for Fully Actuated Ships. IFAC-PapersOnLine, 2016, 49, 115-120.	0.9	2
39	System-of-systems: How the maritime domain can learn from the Smart Grid. , 2017, , .		2
40	Domain-Specific Requirements Elicitation for Socio- Technical System-of-Systems. , 2018, , .		2
41	Statistical Maneuver Net Generation for Anomaly Detection in Navigational Waterways. , 2019, , .		2
42	Empirical Study on Usage of Electronic Product Classification Systems in E-Commerce Organizations in Germany. Journal of Electronic Commerce in Organizations, 2006, 4, 33-47.	1.1	2
43	Semantic and Structural Annotations for Comprehensive Model Analysis. Lecture Notes in Computer Science, 2012, , 144-153.	1.3	2
44	Model-Based Risk Assessment of Offshore Operations. , 2014, , .		2
45	Review on the Current State of Scenario- and Simulation-Based V&V in Application for Maritime Traffic Systems. , 2021, , .		2
46	e-Navigation based cooperative collision avoidance at sea: The MTCAS approach. , 2016, , .		1
47	Simulative evaluation of applying optimized support vector machines to identify the simplified ship dynamic model. , 2017, , .		1
48	Continuous Contract Based Verification of Updates in Maritime Shipboard Equipment. Journal of Marine Science and Engineering, 2021, 9, 688.	2.6	1
49	Clustering Environmental Conditions of Historical Accident Data to Efficiently Generate Testing Sceneries for Maritime Systems. Lecture Notes in Computer Science, 2019, , 349-362.	1.3	1
50	Using Metamodels and Ontologies for Enterprise Model Reconciliation. Lecture Notes in Business Information Processing, 2013, , 212-224.	1.0	1
51	Tool Based Assessment of Electromobility in Urban Logistics. Studies in Computational Intelligence, 2014, , 379-395.	0.9	1
52	Correcting the Destination Information in Automatic Identification System Messages. Lecture Notes in Business Information Processing, 2019, , 496-507.	1.0	1
53	Determination of AIS Position Accuracy and Evaluation of Reconstruction Methods for Maritime Observation Data. IFAC-PapersOnLine, 2021, 54, 97-104.	0.9	1
54	Real-time quality estimation to enable process evaluation in integrated circuit development. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
55	Qualitative and Quantitative Analysis of IC Designs. , 2008, , .		0
56	Chip Design Process Optimization Based on Design Quality Assessment. , 2010, , .		0
57	Comparison and optimization of the parameter identification technique for estimating ship response models. , 2017, , .		0
58	Noise characteristics in extreme shallow water with relation to ship maneuvering parameters. , 2017, , .		0
59	Performance Measurement in Innovation Processes. , 2008, , 376-395.		0
60	Maintaining safety requirements of updated maritime surveillance systems. IFAC-PapersOnLine, 2021, 54, 112-119.	0.9	0