

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	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
2	Continuous Contract Based Verification of Updates in Maritime Shipboard Equipment. Journal of Marine Science and Engineering, 2021, 9, 688.	2.6	1
3	From Automation System to Autonomous System: An Architecture Perspective. Journal of Marine Science and Engineering, 2021, 9, 645.	2.6	18
4	Predictive Path Following and Collision Avoidance of Autonomous Vessels in Narrow Channels. IFAC-PapersOnLine, 2021, 54, 245-251.	0.9	5
5	Determination of AIS Position Accuracy and Evaluation of Reconstruction Methods for Maritime Observation Data. IFAC-PapersOnLine, 2021, 54, 97-104.	0.9	1
6	Maintaining safety requirements of updated maritime surveillance systems. IFAC-PapersOnLine, 2021, 54, 112-119.	0.9	0
7	Review on the Current State of Scenario- and Simulation-Based V&V in Application for Maritime Traffic Systems. , 2021, , .		2
8	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
9	Towards Recertification of Modular Updates in Integrated Maritime Systems of Systems. Lecture Notes in Computer Science, 2020, , 50-63.	1.3	3
10	Statistical Maneuver Net Generation for Anomaly Detection in Navigational Waterways. , 2019, , .		2
11	Optimized support vector regression algorithm-based modeling of ship dynamics. Applied Ocean Research, 2019, 90, 101842.	4.1	24
12	An Approach for Safety Assessment of Highly Automated Systems Applied to a Maritime Traffic Alert and Collision Avoidance System. , 2019, , .		4
13	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
14	Correcting the Destination Information in Automatic Identification System Messages. Lecture Notes in Business Information Processing, 2019, , 496-507.	1.0	1
15	Nonlinear Model Predictive Control for trajectory tracking and collision avoidance of underactuated vessels with disturbances. Ocean Engineering, 2018, 160, 168-180.	4.3	130
16	Towards Critical-Scenario Based Testing With Maritime Observation Data. , 2018, , .		6
17	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
18	Domain-Specific Requirements Elicitation for Socio- Technical System-of-Systems. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
19	A review of damage assessment models in the maritime domain. Ships and Offshore Structures, 2017, 12, S31-S54.	1.9	15
20	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
21	System-of-systems: How the maritime domain can learn from the Smart Grid. , 2017, , .		2
22	Testbed architecture for maritime cyber physical systems. , 2017, , .		7
23	Learning from automotive: Testing maritime assistance systems up to autonomous vessels. , 2017, , .		9
24	Comparison and optimization of the parameter identification technique for estimating ship response models. , 2017, , .		0
25	Simulative evaluation of applying optimized support vector machines to identify the simplified ship dynamic model. , 2017, , .		1
26	Noise characteristics in extreme shallow water with relation to ship maneuvering parameters. , 2017, , .		0
27	Detecting maneuvers in maritime observation data with CUSUM. , 2017, , .		7
28	Ocean surface water currents by large-scale particle image velocimetry technique. , 2017, , .		3
29	Parameter Identification of Ship Maneuvering Models Using Recursive Least Square Method Based on Support Vector Machines. TransNav, 2017, 11, 23-29.	0.6	16
30	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
31	NMPC-based trajectory tracking and collision avoidance of unmanned surface vessels with rule-based colregs confinement. , 2016, , .		12
32	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 20	0.9	4
33	Requirements for e-Navigation Architectures. International Journal of E-Navigation and Maritime Economy, 2016, 5, 1-20.	1.2	7
34	From Nautical Path Planning in ECDIS to Their Realisation Applied for Fully Actuated Ships. IFAC-PapersOnLine, 2016, 49, 115-120.	0.9	2
35	e-Navigation based cooperative collision avoidance at sea: The MTCAS approach. , 2016, , .		1
36	NMPC-based Trajectory Tracking and Collison 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

#	ARTICLE	IF	CITATIONS
37	Nonlinear Model Predictive Control for Tracking of Underactuated Vessels under Input Constraints. , 2015, , .		8
38	Motion safety for vessels: An approach based on Inevitable Collision States. , 2015, , .		3
39	Trajectory generation for vessels using a reachability graph. , 2015, , .		2
40	Probabilistic Collision Avoidance for Vessels. IFAC-PapersOnLine, 2015, 48, 69-74.	0.9	16
41	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
42	A simulation based approach to forecast a demand load curve for a container terminal using battery powered vehicles. , 2014, , .		7
43	Tool Based Assessment of Electromobility in Urban Logistics. Studies in Computational Intelligence, 2014, , 379-395.	0.9	1
44	Model-Based Risk Assessment of Offshore Operations. , 2014, , .		2
45	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
46	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
47	Using Metamodels and Ontologies for Enterprise Model Reconciliation. Lecture Notes in Business Information Processing, 2013, , 212-224.	1.0	1
48	Offshore Training Simulations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 37-42.	0.4	3
49	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
50	Semantic and Structural Annotations for Comprehensive Model Analysis. Lecture Notes in Computer Science, 2012, , 144-153.	1.3	2
51	Chip Design Process Optimization Based on Design Quality Assessment. , 2010, , .		0
52	Supporting qualification: Safety standard compliant process planning and monitoring. , 2010, , .		3
53	Towards an User-Friendly Ontology Design Methodology. , 2009, , .		6
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	Ontology based metrics – applying business intelligence on PLM. International Journal of Product Lifecycle Management, 2008, 3, 308.	0.3	4
57	Performance Measurement in Innovation Processes. , 2008, , 376-395.		0
58	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
59	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
60	Governing Smart Business Networks by Means of Distributed Innovation Management. , 2005, , 307-319.		10